

Object	Property Name	Property Value
Line	Name	I841964
	Color	Default
	Start X-Coordinate	10
	Start Y-Coordinate	1720
	End X-Coordinate	600
	End Y-Coordinate	1720

Object	Property Name	Property Value
Line	Name	I841970
	Color	Default
	Start X-Coordinate	600
	Start Y-Coordinate	1720
	End X-Coordinate	600
	End Y-Coordinate	1770

Object	Property Name	Property Value
Polygon	Name	I981086
	Color	Default
	Fill Style	Hollow Fill
	Hatch Style	Horizontal Hatch

Object	Property Name	Property Value
Polygon	Name	I989501
	Color	Default
	Fill Style	Hollow Fill
	Hatch Style	Horizontal Hatch

Object	Property Name	Property Value
Polygon	Name	I1014633
	Color	Default
	Fill Style	Hollow Fill
	Hatch Style	Horizontal Hatch

Object	Property Name	Property Value
Rectangle	Name	I1016540
	Color	Default
	Left	900
	Top	210
	Right	970
	Bottom	260
	Fill Style	Hollow Fill
	Hatch Style	Horizontal Hatch

Object	Property Name	Property Value
Rectangle	Name	I1016949
	Color	Default
	Left	900
	Top	280
	Right	970
	Bottom	340
	Fill Style	Hollow Fill
	Hatch Style	Horizontal Hatch

Object	Property Name	Property Value
Rectangle	Name	I1021828
	Color	Default
	Left	1440
	Top	230
	Right	1500
	Bottom	270
	Fill Style	Hollow Fill
	Hatch Style	Horizontal Hatch

Object	Property Name	Property Value
Rectangle	Name	I1022094
	Color	Default
	Left	1440
	Top	290
	Right	1500
	Bottom	340
	Fill Style	Hollow Fill
	Hatch Style	Horizontal Hatch

Object	Property Name	Property Value
Rectangle	Name	I1030742
	Color	Default
	Left	900
	Top	150
	Right	1010
	Bottom	190
	Fill Style	Hollow Fill
	Hatch Style	Horizontal Hatch

Object	Property Name	Property Value
Polygon	Name	I1030822
	Color	Default
	Fill Style	Hollow Fill
	Hatch Style	Horizontal Hatch

Object	Property Name	Property Value
Polygon	Name	I1031521
	Color	Default
	Fill Style	Hollow Fill
	Hatch Style	Horizontal Hatch

Object	Property Name	Property Value
Rectangle	Name	I1109507
	Color	Default
	Left	1440
	Top	150
	Right	1500
	Bottom	210
	Fill Style	Hollow Fill
	Hatch Style	Horizontal Hatch

Object	Property Name	Property Value
Rectangle	Name	I1114976
	Color	Default
	Left	1440
	Top	360
	Right	1510
	Bottom	460
	Fill Style	Hollow Fill
	Hatch Style	Horizontal Hatch

Object	Property Name	Property Value
Rectangle	Name	I1117759
	Color	Default
	Left	1440
	Top	480
	Right	1500
	Bottom	550
	Fill Style	Hollow Fill
	Hatch Style	Horizontal Hatch

Object	Property Name	Property Value
Rectangle	Name	I1119750
	Color	Default
	Left	1440
	Top	570
	Right	1500
	Bottom	640
	Fill Style	Hollow Fill
	Hatch Style	Horizontal Hatch

Object	Property Name	Property Value
Rectangle	Name	I1122262
	Color	Default
	Left	1440
	Top	660
	Right	1560
	Bottom	990
	Fill Style	Hollow Fill
	Hatch Style	Horizontal Hatch

Object	Property Name	Property Value
Rectangle	Name	I1134293
	Color	Default
	Left	1440
	Top	1010
	Right	1520
	Bottom	1070
	Fill Style	Hollow Fill
	Hatch Style	Horizontal Hatch

Object	Property Name	Property Value
Rectangle	Name	I1136710
	Color	Default
	Left	900
	Top	610
	Right	970
	Bottom	690
	Fill Style	Hollow Fill
	Hatch Style	Horizontal Hatch

Object	Property Name	Property Value
Rectangle	Name	I1139142
	Color	Default
	Left	900
	Top	710
	Right	970
	Bottom	770
	Fill Style	Hollow Fill
	Hatch Style	Horizontal Hatch

Object	Property Name	Property Value
Rectangle	Name	I1140772
	Color	Default
	Left	900
	Top	790
	Right	970
	Bottom	830
	Fill Style	Hollow Fill
	Hatch Style	Horizontal Hatch

Object	Property Name	Property Value
Rectangle	Name	I1141671
	Color	Default
	Left	900
	Top	850
	Right	980
	Bottom	950
	Fill Style	Hollow Fill
	Hatch Style	Horizontal Hatch

Object	Property Name	Property Value
Rectangle	Name	I1146810
	Color	Default
	Left	900
	Top	970
	Right	990
	Bottom	1020
	Fill Style	Hollow Fill
	Hatch Style	Horizontal Hatch

Object	Property Name	Property Value
Rectangle	Name	I1157573
	Color	Default
	Left	900
	Top	1040
	Right	970
	Bottom	1100
	Fill Style	Hollow Fill
	Hatch Style	Horizontal Hatch

Object	Property Name	Property Value
Rectangle	Name	I1179145
	Color	Default
	Left	1440
	Top	1090
	Right	1520
	Bottom	1120
	Fill Style	Hollow Fill
	Hatch Style	Horizontal Hatch

Object	Property Name	Property Value
Rectangle	Name	I1200796
	Color	Default
	Left	900
	Top	1120
	Right	970
	Bottom	1160
	Fill Style	Hollow Fill
	Hatch Style	Horizontal Hatch

Object	Property Name	Property Value
Line	Name	I1412486
	Color	Default
	Start X-Coordinate	720
	Start Y-Coordinate	1270
	End X-Coordinate	1700
	End Y-Coordinate	1270

Object	Property Name	Property Value
Line	Name	I1412494
	Color	Default
	Start X-Coordinate	720
	Start Y-Coordinate	1270
	End X-Coordinate	720
	End Y-Coordinate	1750

Object	Property Name	Property Value
Line	Name	I1412502
	Color	Default
	Start X-Coordinate	720
	Start Y-Coordinate	1750
	End X-Coordinate	1700
	End Y-Coordinate	1750

Object	Property Name	Property Value
Line	Name	I1412528
	Color	Default
	Start X-Coordinate	1700
	Start Y-Coordinate	1270
	End X-Coordinate	1700
	End Y-Coordinate	1750

Object	Property Name	Property Value
LINE output	Name	I838858
	Color	Default
	Bounding Box Left	2060
	Bounding Box Right	2152
	Bounding Box Top	570
	Bounding Box Bottom	583
	Text	LINE output
	Text Location X-Coordinate	2060
	Text Location Y-Coordinate	570
	Font	Courier New

Object	Property Name	Property Value
Headphone output	Name	I838923
	Color	Default
	Bounding Box Left	2040
	Bounding Box Right	2180
	Bounding Box Top	450
	Bounding Box Bottom	463
	Text	Headphone output
	Text Location X-Coordinate	2040
	Text Location Y-Coordinate	450
	Font	Courier New

Object	Property Name	Property Value
LINE input	Name	I839137
	Color	Default
	Bounding Box Left	2070
	Bounding Box Right	2154
	Bounding Box Top	930
	Bounding Box Bottom	943
	Text	LINE input
	Text Location X-Coordinate	2070
	Text Location Y-Coordinate	930
	Font	Courier New

Object	Property Name	Property Value
Capacitor are 0603 -20% 16V unless otherwise noted	Name	I841952
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	565
	Bounding Box Top	1750
	Bounding Box Bottom	1769
	Text	Capacitor are 0603 -20% 16V unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	1750
	Font	Courier New

Object	Property Name	Property Value
Resistors are 0603 -1% 1/10W unless otherwise noted	Name	I841958
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	576
	Bounding Box Top	1730
	Bounding Box Bottom	1749
	Text	Resistors are 0603 -1% 1/10W unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	1730
	Font	Courier New

Object	Property Name	Property Value
Diff pair DP2-120Ohm	Name	I981080
	Color	Default
	Bounding Box Left	100
	Bounding Box Right	184
	Bounding Box Top	565
	Bounding Box Bottom	591
	Text	Diff pair DP2-120Ohm
	Text Location X-Coordinate	100
	Text Location Y-Coordinate	565
	Font	Courier New

Object	Property Name	Property Value
MikroBus 1/2	Name	I989495
	Color	Default
	Bounding Box Left	900
	Bounding Box Right	1000
	Bounding Box Top	590
	Bounding Box Bottom	603
	Text	MikroBus 1/2
	Text Location X-Coordinate	900
	Text Location Y-Coordinate	590
	Font	Courier New

Object	Property Name	Property Value
Diff pair DP3-120Ohm	Name	I1014607
	Color	Default
	Bounding Box Left	100
	Bounding Box Right	184
	Bounding Box Top	695
	Bounding Box Bottom	721
	Text	Diff pair DP3-120Ohm
	Text Location X-Coordinate	100
	Text Location Y-Coordinate	695
	Font	Courier New

Object	Property Name	Property Value
CAN 2.0B	Name	I1016516
	Color	Default
	Bounding Box Left	900
	Bounding Box Right	968
	Bounding Box Top	260
	Bounding Box Bottom	273
	Text	CAN 2.0B
	Text Location X-Coordinate	900
	Text Location Y-Coordinate	260
	Font	Courier New

Object	Property Name	Property Value
RS-485	Name	I1016925
	Color	Default
	Bounding Box Left	900
	Bounding Box Right	952
	Bounding Box Top	340
	Bounding Box Bottom	353
	Text	RS-485
	Text Location X-Coordinate	900
	Text Location Y-Coordinate	340
	Font	Courier New

Object	Property Name	Property Value
I2C2	Name	I1021836
	Color	Default
	Bounding Box Left	1440
	Bounding Box Right	1476
	Bounding Box Top	270
	Bounding Box Bottom	283
	Text	I2C2
	Text Location X-Coordinate	1440
	Text Location Y-Coordinate	270
	Font	Courier New

Object	Property Name	Property Value
Servo / RC DAC	Name	I1022287
	Color	Default
	Bounding Box Left	1440
	Bounding Box Right	1556
	Bounding Box Top	340
	Bounding Box Bottom	353
	Text	Servo / RC DAC
	Text Location X-Coordinate	1440
	Text Location Y-Coordinate	340
	Font	Courier New

Object	Property Name	Property Value
USB 2.0 Native	Name	I1030724
	Color	Default
	Bounding Box Left	900
	Bounding Box Right	1016
	Bounding Box Top	190
	Bounding Box Bottom	203
	Text	USB 2.0 Native
	Text Location X-Coordinate	900
	Text Location Y-Coordinate	190
	Font	Courier New

Object	Property Name	Property Value
Diff pair DP1 - 90Ohm	Name	I1030816
	Color	Default
	Bounding Box Left	275
	Bounding Box Right	367
	Bounding Box Top	260
	Bounding Box Bottom	286
	Text	Diff pair DP1 - 90Ohm
	Text Location X-Coordinate	275
	Text Location Y-Coordinate	260
	Font	Courier New

Object	Property Name	Property Value
Diff pair DP4 - 90Ohm	Name	I1031515
	Color	Default
	Bounding Box Left	265
	Bounding Box Right	357
	Bounding Box Top	400
	Bounding Box Bottom	426
	Text	Diff pair DP4 - 90Ohm
	Text Location X-Coordinate	265
	Text Location Y-Coordinate	400
	Font	Courier New

Object	Property Name	Property Value
LED 1.4	Name	I1109501
	Color	Default
	Bounding Box Left	1440
	Bounding Box Right	1508
	Bounding Box Top	210
	Bounding Box Bottom	223
	Text	LED 1.4
	Text Location X-Coordinate	1440
	Text Location Y-Coordinate	210
	Font	Courier New

Object	Property Name	Property Value
Codec	Name	I1114970
	Color	Default
	Bounding Box Left	1440
	Bounding Box Right	1484
	Bounding Box Top	460
	Bounding Box Bottom	473
	Text	Codec
	Text Location X-Coordinate	1440
	Text Location Y-Coordinate	460
	Font	Courier New

Object	Property Name	Property Value
Motor driver 1	Name	I1117753
	Color	Default
	Bounding Box Left	1440
	Bounding Box Right	1556
	Bounding Box Top	550
	Bounding Box Bottom	563
	Text	Motor driver 1
	Text Location X-Coordinate	1440
	Text Location Y-Coordinate	550
	Font	Courier New

Object	Property Name	Property Value
Motor driver 2	Name	I1119744
	Color	Default
	Bounding Box Left	1440
	Bounding Box Right	1556
	Bounding Box Top	640
	Bounding Box Bottom	653
	Text	Motor driver 2
	Text Location X-Coordinate	1440
	Text Location Y-Coordinate	640
	Font	Courier New

Object	Property Name	Property Value
Parallel master port	Name	I1122256
	Color	Default
	Bounding Box Left	1440
	Bounding Box Right	1604
	Bounding Box Top	990
	Bounding Box Bottom	1003
	Text	Parallel master port
	Text Location X-Coordinate	1440
	Text Location Y-Coordinate	990
	Font	Courier New

Object	Property Name	Property Value
Rotary enc / pot	Name	I1134299
	Color	Default
	Bounding Box Left	1420
	Bounding Box Right	1552
	Bounding Box Top	1070
	Bounding Box Bottom	1083
	Text	Rotary enc / pot
	Text Location X-Coordinate	1420
	Text Location Y-Coordinate	1070
	Font	Courier New

Object	Property Name	Property Value
Riverdi EVE	Name	I1136704
	Color	Default
	Bounding Box Left	900
	Bounding Box Right	992
	Bounding Box Top	690
	Bounding Box Bottom	703
	Text	Riverdi EVE
	Text Location X-Coordinate	900
	Text Location Y-Coordinate	690
	Font	Courier New

Object	Property Name	Property Value
Ain -10V 10bits	Name	I1139136
	Color	Default
	Bounding Box Left	900
	Bounding Box Right	1024
	Bounding Box Top	770
	Bounding Box Bottom	783
	Text	Ain -10V 10bits
	Text Location X-Coordinate	900
	Text Location Y-Coordinate	770
	Font	Courier New

Object	Property Name	Property Value
Ain -3V3 12bits	Name	I1140766
	Color	Default
	Bounding Box Left	900
	Bounding Box Right	1024
	Bounding Box Top	830
	Bounding Box Bottom	843
	Text	Ain -3V3 12bits
	Text Location X-Coordinate	900
	Text Location Y-Coordinate	830
	Font	Courier New

Object	Property Name	Property Value
SPI2 - SD/FLASH	Name	I1141665
	Color	Default
	Bounding Box Left	900
	Bounding Box Right	1024
	Bounding Box Top	950
	Bounding Box Bottom	963
	Text	SPI2 - SD/FLASH
	Text Location X-Coordinate	900
	Text Location Y-Coordinate	950
	Font	Courier New

Object	Property Name	Property Value
RGB LED	Name	I1146804
	Color	Default
	Bounding Box Left	900
	Bounding Box Right	960
	Bounding Box Top	1020
	Bounding Box Bottom	1033
	Text	RGB LED
	Text Location X-Coordinate	900
	Text Location Y-Coordinate	1020
	Font	Courier New

Object	Property Name	Property Value
BTN1..4	Name	I1157579
	Color	Default
	Bounding Box Left	900
	Bounding Box Right	960
	Bounding Box Top	1100
	Bounding Box Bottom	1113
	Text	BTN1..4
	Text Location X-Coordinate	900
	Text Location Y-Coordinate	1100
	Font	Courier New

Object	Property Name	Property Value
Buzzer	Name	I1179139
	Color	Default
	Bounding Box Left	1450
	Bounding Box Right	1502
	Bounding Box Top	1120
	Bounding Box Bottom	1133
	Text	Buzzer
	Text Location X-Coordinate	1450
	Text Location Y-Coordinate	1120
	Font	Courier New

Object	Property Name	Property Value
SWDebug	Name	I1200804
	Color	Default
	Bounding Box Left	900
	Bounding Box Right	960
	Bounding Box Top	1160
	Bounding Box Bottom	1173
	Text	SWDebug
	Text Location X-Coordinate	900
	Text Location Y-Coordinate	1160
	Font	Courier New

Object	Property Name	Property Value
Place TVS as close as possible to expansion port	Name	I1412520
	Color	Default
	Bounding Box Left	1550
	Bounding Box Right	1698
	Bounding Box Top	1630
	Bounding Box Bottom	1669
	Text	Place TVS as close as possible to expansion port
	Text Location X-Coordinate	1550
	Text Location Y-Coordinate	1630
	Font	Courier New

Object	Property Name	Property Value
Micro	Name	I1418496
	Color	Default
	Bounding Box Left	2100
	Bounding Box Right	2144
	Bounding Box Top	680
	Bounding Box Bottom	693
	Text	Micro
	Text Location X-Coordinate	2100
	Text Location Y-Coordinate	680
	Font	Courier New

Object	Property Name	Property Value
Micro In	Name	I1418504
	Color	Default
	Bounding Box Left	2080
	Bounding Box Right	2148
	Bounding Box Top	800
	Bounding Box Bottom	813
	Text	Micro In
	Text Location X-Coordinate	2080
	Text Location Y-Coordinate	800
	Font	Courier New

Object	Property Name	Property Value
Parallel master port interface Expansion port on dsPeak	Name	I1418524
	Color	Default
	Bounding Box Left	1450
	Bounding Box Right	1694
	Bounding Box Top	16 bit address bus
	Bounding Box Bottom	1280
	Text	Parallel master port interface Expansion port on dsPeak
	Text Location X-Coordinate	8 bit data bus Up to 1
	Text Location Y-Coordinate	1450
	Font	Courier New

Object	Property Name	Property Value
TOP	Name	I1418530
	Color	Default
	Bounding Box Left	2140
	Bounding Box Right	2168
	Bounding Box Top	10
	Bounding Box Bottom	23
	Text	TOP
	Text Location X-Coordinate	2140
	Text Location Y-Coordinate	10
	Font	Courier New

Object	Property Name	Property Value
dsPIC33EP512MU814	Name	I1421518
	Color	Default
	Bounding Box Left	1130
	Bounding Box Right	1270
	Bounding Box Top	1170
	Bounding Box Bottom	1183
	Text	dsPIC33EP512MU814
	Text Location X-Coordinate	1130
	Text Location Y-Coordinate	1170
	Font	Courier New

Object	Property Name	Property Value
Diff pair DP13 - 90Ohm	Name	I1445022
	Color	Default
	Bounding Box Left	581
	Bounding Box Right	681
	Bounding Box Top	290
	Bounding Box Bottom	316
	Text	Diff pair DP13 - 90Ohm
	Text Location X-Coordinate	581
	Text Location Y-Coordinate	290
	Font	Courier New

Object	Property Name	Property Value
Diff pair DP14 - 90Ohm	Name	I1445038
	Color	Default
	Bounding Box Left	571
	Bounding Box Right	671
	Bounding Box Top	440
	Bounding Box Bottom	466
	Text	Diff pair DP14 - 90Ohm
	Text Location X-Coordinate	571
	Text Location Y-Coordinate	440
	Font	Courier New

Object	Property Name	Property Value
DGND : DGND (Wire ID = 839074 )	Color	Default
DGND : DGND (Wire ID = 839074 )	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 839078 )	Color	Default
DGND : DGND (Wire ID = 839078 )	Name	DGND

Object	Property Name	Property Value
N839643 : N839643 (Wire ID = 839643 )	Color	Default
N839643 : N839643 (Wire ID = 839643 )	Name	N839643

Object	Property Name	Property Value
N839643 : N839643 (Wire ID = 839653 )	Color	Default
N839643 : N839643 (Wire ID = 839653 )	Name	N839643

Object	Property Name	Property Value
N839643 : N839643 (Wire ID = 839655 )	Color	Default
N839643 : N839643 (Wire ID = 839655 )	Name	N839643

Object	Property Name	Property Value
N839661 : N839661 (Wire ID = 839661 )	Color	Default
N839661 : N839661 (Wire ID = 839661 )	Name	N839661

Object	Property Name	Property Value
N839661 : N839661 (Wire ID = 839665 )	Color	Default
N839661 : N839661 (Wire ID = 839665 )	Name	N839661

Object	Property Name	Property Value
N839661 : N839661 (Wire ID = 839667 )	Color	Default
N839661 : N839661 (Wire ID = 839667 )	Name	N839661

Object	Property Name	Property Value
N839661 : N839661 (Wire ID = 839667 )	Color	Default
N839661 : N839661 (Wire ID = 839667 )	Name	N839661

Object	Property Name	Property Value
N839673 : N839673 (Wire ID = 839677 )	Color	Default
	Name	N839673

Object	Property Name	Property Value
N839673 : N839673 (Wire ID = 839679 )	Color	Default
	Name	N839673

Object	Property Name	Property Value
N840038 : N840038 (Wire ID = 840038 )	Color	Default
	Name	N840038

Object	Property Name	Property Value
N840038 : N840038 (Wire ID = 840042 )	Color	Default
	Name	N840038

Object	Property Name	Property Value
N840038 : N840038 (Wire ID = 840044 )	Color	Default
	Name	N840038

Object	Property Name	Property Value
N840050 : N840050 (Wire ID = 840050 )	Color	Default
	Name	N840050

Object	Property Name	Property Value
N840050 : N840050 (Wire ID = 840054 )	Color	Default
	Name	N840050

Object	Property Name	Property Value
N840050 : N840050 (Wire ID = 840056 )	Color	Default
	Name	N840050

Object	Property Name	Property Value
DGND : DGND (Wire ID = 840081 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 840085 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N840869 : N840869 (Wire ID = 840869 )	Color	Default
	Name	N840869

Object	Property Name	Property Value
N841430 : N841430 (Wire ID = 841430 )	Color	Default
	Name	N841430

Object	Property Name	Property Value
N841434 : N841434 (Wire ID = 841434 )	Color	Default
	Name	N841434

Object	Property Name	Property Value
N841434 : N841434 (Wire ID = 841444 )	Color	Default
	Name	N841434

Object	Property Name	Property Value
N841434 : N841434 (Wire ID = 841446 )	Color	Default
	Name	N841434

Object	Property Name	Property Value
N841452 : N841452 (Wire ID = 841452 )	Color	Default
	Name	N841452

Object	Property Name	Property Value
DVDD_3V3 : DVDD_3V3 (Wire ID = 841483 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : DVDD_3V3 (Wire ID = 841485 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DGND : DGND (Wire ID = 841501 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 841503 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DVDD_5V0 : DVDD_5V0 (Wire ID = 968868 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DGND : DGND (Wire ID = 968900 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DVDD_5V0 : DVDD_5V0 (Wire ID = 969016 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DGND : DGND (Wire ID = 969048 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DRV2_OUTA : DRV2_OUTA (Wire ID = 971238 )	Color	Default
	Name	DRV2_OUTA

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DRV2_OUTB : DRV2_OUTB (Wire ID = 971301 )	Color	Default
	Name	DRV2_OUTB

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DRV1_OUTA : DRV1_OUTA (Wire ID = 971677 )	Color	Default
	Name	DRV1_OUTA

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DRV1_OUTB : DRV1_OUTB (Wire ID = 971683 )	Color	Default
	Name	DRV1_OUTB

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
QEA1_IN : QEA1_IN (Wire ID = 972668 )	Color	Default
	Name	QEA1_IN

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
QEB1_IN : QEB1_IN (Wire ID = 972686 )	Color	Default
	Name	QEB1_IN

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
QEA2_IN : QEA2_IN (Wire ID = 973059 )	Color	Default
	Name	QEA2_IN

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
QEB2_IN : QEB2_IN (Wire ID = 973077 )	Color	Default
	Name	QEB2_IN

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
CANH : CANH (Wire ID = 979272 )	Color	Default
	Name	CANH

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
CANL : CANL (Wire ID = 979284 )	Color	Default
	DIFFERENTIAL_PAIR	DP2
	Name	CANL

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : DGND (Wire ID = 979628 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : DGND (Wire ID = 979630 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
QEB1_IN : QEB1_IN (Wire ID = 994888 )	Color	Default
	Name	QEB1_IN

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DRV1_OUTA : DRV1_OUTA (Wire ID = 994894 )	Color	Default
	Name	DRV1_OUTA

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
QEB2_IN : QEB2_IN (Wire ID = 994900 )	Color	Default
	Name	QEB2_IN

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DRV2_OUTA : DRV2_OUTA (Wire ID = 994906 )	Color	Default
	Name	DRV2_OUTA

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N996104 : N996104 (Wire ID = 996104 )	Color	Default
	Name	N996104

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N996104 : N996104 (Wire ID = 996108 )	Color	Default
	Name	N996104

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N996104 : N996104 (Wire ID = 996110 )	Color	Default
	Name	N996104

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N996116 : N996116 (Wire ID = 996116 )	Color	Default
	Name	N996116

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N996116 : N996116 (Wire ID = 996120 )	Color	Default
	Name	N996116

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N996116 : N996116 (Wire ID = 996122 )	Color	Default
	Name	N996116

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : DGND (Wire ID = 996128 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : DGND (Wire ID = 996130 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
SPI3_nCS : SPI3_NCS (Wire ID = 996149 )	Color	Default
	Name	SPI3_NCS

Object	Property Name	Property Value
SPI3_MOSI : SPI3_MOSI (Wire ID = 996180 )	Color	Default
	Name	SPI3_MOSI

Object	Property Name	Property Value
SPI3_SCLK : SPI3_SCLK (Wire ID = 996197 )	Color	Default
	Name	SPI3_SCLK

Object	Property Name	Property Value
I2S_DOUT : I2S_DOUT (Wire ID = 996228 )	Color	Default
	Name	I2S_DOUT

Object	Property Name	Property Value
I2S_DIN : I2S_DIN (Wire ID = 996251 )	Color	Default
	Name	I2S_DIN

Object	Property Name	Property Value
I2S_COFS : I2S_COFS (Wire ID = 996274 )	Color	Default
	Name	I2S_COFS

Object	Property Name	Property Value
I2S_SCLK : I2S_SCLK (Wire ID = 996297 )	Color	Default
	Name	I2S_SCLK

Object	Property Name	Property Value
PWM1L : PWM1L (Wire ID = 996428 )	Color	Default
	Name	PWM1L

Object	Property Name	Property Value
PWM1H : PWM1H (Wire ID = 996476 )	Color	Default
	Name	PWM1H

Object	Property Name	Property Value
nFAULT1 : NFAULT1 (Wire ID = 996523 )	Color	Default
	Name	NFAULT1

Object	Property Name	Property Value
QEA1 : QEA1 (Wire ID = 996546 )	Color	Default
	Name	QEA1

Object	Property Name	Property Value
QEB1 : QEB1 (Wire ID = 996569 )	Color	Default
	Name	QEB1

Object	Property Name	Property Value
PWM2L : PWM2L (Wire ID = 996624 )	Color	Default
	Name	PWM2L

Object	Property Name	Property Value
PWM2H : PWM2H (Wire ID = 996630 )	Color	Default
	Name	PWM2H

Object	Property Name	Property Value
nFAULT2 : nFAULT2 (Wire ID = 996636 )	Color	Default
	Name	nFAULT2

Object	Property Name	Property Value
QEA2 : QEA2 (Wire ID = 996642 )	Color	Default
	Name	QEA2

Object	Property Name	Property Value
QEB2 : QEB2 (Wire ID = 996648 )	Color	Default
	Name	QEB2

Object	Property Name	Property Value
DRV1_OUTA : DRV1_OUTA (Wire ID = 1013529 )	Color	Default
	Name	DRV1_OUTA

Object	Property Name	Property Value
QEB1_IN : QEB1_IN (Wire ID = 1013535 )	Color	Default
	Name	QEB1_IN

Object	Property Name	Property Value
DRV2_OUTA : DRV2_OUTA (Wire ID = 1013541 )	Color	Default
	Name	DRV2_OUTA

Object	Property Name	Property Value
QEB2_IN : QEB2_IN (Wire ID = 1013547 )	Color	Default
	Name	QEB2_IN

Object	Property Name	Property Value
VM : VM (Wire ID = 1013573 )	Color	Default
	Name	VM

Object	Property Name	Property Value
CAN_TX : CAN_TX (Wire ID = 1014499 )	Color	Default
	Name	CAN_TX

Object	Property Name	Property Value
CAN_RX : CAN_RX (Wire ID = 1014505 )	Color	Default
	Name	CAN_RX

Object	Property Name	Property Value
CAN_LBK : CAN_LBK (Wire ID = 1014511 )	Color	Default
	Name	CAN_LBK

Object	Property Name	Property Value
CANL : CANL (Wire ID = 1014544 )	Color	Default
	DIFFERENTIAL_PAIR	DP2
	Name	CANL

Object	Property Name	Property Value
CANL : CANL (Wire ID = 1014546 )	Color	Default
	DIFFERENTIAL_PAIR	DP2
	Name	CANL

Object	Property Name	Property Value
485_B : 485_B (Wire ID = 1014637 )	DIFFERENTIAL_PAIR	DP3
	Color	Default
	Name	485_B

Object	Property Name	Property Value
485_A : 485_A (Wire ID = 1014643 )	Color	Default
	DIFFERENTIAL_PAIR	DP3
	Name	485_A

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1014649 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1014653 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
485_A : 485_A (Wire ID = 1014684 )	Color	Default
	DIFFERENTIAL_PAIR	DP3
	Name	485_A

Object	Property Name	Property Value
485_A : 485_A (Wire ID = 1014686 )	Color	Default
	DIFFERENTIAL_PAIR	DP3
	Name	485_A

Object	Property Name	Property Value
UART1_TX : UART1_TX (Wire ID = 1014751 )	Color	Default
	Name	UART1_TX

Object	Property Name	Property Value
UART1_CTS : UART1_CTS (Wire ID = 1014757 )	Color	Default
	Name	UART1_CTS

Object	Property Name	Property Value
UART1_RTS : UART1_RTS (Wire ID = 1014763 )	Color	Default
	Name	UART1_RTS

Object	Property Name	Property Value
UART1_RX : UART1_RX (Wire ID = 1014824 )	Color	Default
	Name	UART1_RX

Object	Property Name	Property Value
ASDA2 : ASDA2 (Wire ID = 1020823 )	Color	Default
	Name	ASDA2

Object	Property Name	Property Value
ASDA2 : ASDA2 (Wire ID = 1020879 )	Color	Default
	Name	ASDA2

Object	Property Name	Property Value
ASCL2 : ASCL2 (Wire ID = 1020897 )	Color	Default
	Name	ASCL2

Object	Property Name	Property Value
ASCL2 : ASCL2 (Wire ID = 1021813 )	Color	Default
	Name	ASCL2

Object	Property Name	Property Value
PWM5H : PWM5H (Wire ID = 1022074 )	Color	Default
	Name	PWM5H

Object	Property Name	Property Value
PWM6L : PWM6L (Wire ID = 1022080 )	Color	Default
	Name	PWM6L

Object	Property Name	Property Value
PWM6H : PWM6H (Wire ID = 1022086 )	Color	Default
	Name	PWM6H

Object	Property Name	Property Value
PWM5H : PWM5H (Wire ID = 1022299 )	Color	Default
	Name	PWM5H

Object	Property Name	Property Value
PWM6L : PWM6L (Wire ID = 1022317 )	Color	Default
	Name	PWM6L

Object	Property Name	Property Value
PWM6H : PWM6H (Wire ID = 1022336 )	Color	Default
	Name	PWM6H

Object	Property Name	Property Value
RCDAC1 : RCDAC1 (Wire ID = 1022373 )	Color	Default
	Name	RCDAC1

Object	Property Name	Property Value
RCDAC2 : RCDAC2 (Wire ID = 1022401 )	Color	Default
	Name	RCDAC2

Object	Property Name	Property Value
SERVO1 : SERVO1 (Wire ID = 1022732 )	Color	Default
	Name	SERVO1

Object	Property Name	Property Value
SERVO2 : SERVO2 (Wire ID = 1022749 )	Color	Default
	Name	SERVO2

Object	Property Name	Property Value
SERVO3 : SERVO3 (Wire ID = 1022767 )	Color	Default
	Name	SERVO3

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1023699 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1023717 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
VM : VM (Wire ID = 1023736 )	Color	Default
	Name	VM

Object	Property Name	Property Value
VM : VM (Wire ID = 1023738 )	Color	Default
	Name	VM

Object	Property Name	Property Value
VM : VM (Wire ID = 1023744 )	Color	Default
	Name	VM

Object	Property Name	Property Value
VM : VM (Wire ID = 1023746 )	Color	Default
	Name	VM

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1024152 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1024154 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1024175 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1024177 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1024200 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1024228 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DVDD_5V0 : DVDD_5V0 (Wire ID = 1024313 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DVDD_5V0 : DVDD_5V0 (Wire ID = 1024315 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DVDD_5V0 : DVDD_5V0 (Wire ID = 1024326 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DVDD_5V0 : DVDD_5V0 (Wire ID = 1024328 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DVDD_5V0 : DVDD_5V0 (Wire ID = 1024341 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DVDD_5V0 : DVDD_5V0 (Wire ID = 1024343 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
SERVO1 : SERVO1 (Wire ID = 1024360 )	Color	Default
	Name	SERVO1

Object	Property Name	Property Value
SERVO2 : SERVO2 (Wire ID = 1024372 )	Color	Default
	Name	SERVO2

Object	Property Name	Property Value
SERVO1 : SERVO1 (Wire ID = 1025327 )	Color	Default
	Name	SERVO1

Object	Property Name	Property Value
SERVO2 : SERVO2 (Wire ID = 1025361 )	Color	Default
	Name	SERVO2

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1025650 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1025652 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1025665 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1025667 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
RCDAC1 : RCDAC1 (Wire ID = 1025755 )	Color	Default
	Name	RCDAC1

Object	Property Name	Property Value
RCDAC1 : RCDAC1 (Wire ID = 1025757 )	Color	Default
	Name	RCDAC1

Object	Property Name	Property Value
RCDAC2 : RCDAC2 (Wire ID = 1025769 )	Color	Default
	Name	RCDAC2

Object	Property Name	Property Value
RCDAC2 : RCDAC2 (Wire ID = 1025771 )	Color	Default
	Name	RCDAC2

Object	Property Name	Property Value
USB_NATIVE_5V0 : USB_NATIVE_5V0 (Wire ID = 1025901 )	Color	Default
	Name	USB_NATIVE_5V0

Object	Property Name	Property Value
USB_NATIVE_D- : USB_NATIVE_D- (Wire ID = 102892)	Color	Default
	Name	USB_NATIVE_D-

Object	Property Name	Property Value
USB_NATIVE_D+ : USB_NATIVE_D+ (Wire ID = 102894)	Color	Default
	Name	USB_NATIVE_D+

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1029015 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1029017 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
USB_UART_D- : USB_UART_D- (Wire ID = 1030011 )	Color	Default
	DIFFERENTIAL_PAIR	DP4
	Name	USB_UART_D-

Object	Property Name	Property Value
USB_UART_D+ : USB_UART_D+ (Wire ID = 1030017 )	Color	Default
	DIFFERENTIAL_PAIR	DP4
	Name	USB_UART_D+

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1030023 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1030027 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
USB_NATIVE_D-_MCU : USB_NATIVE_D-_MCU (Wire ID = 1030728 )	Color	Default
	DIFFERENTIAL_PAIR	DP13
	Name	USB_NATIVE_D-_MCU

Object	Property Name	Property Value
USB_NATIVE_D+_MCU : USB_NATIVE_D+_MCU (Wire ID = 1030734 )	Color	Default
	DIFFERENTIAL_PAIR	DP13
	Name	USB_NATIVE_D+_MCU

Object	Property Name	Property Value
AN12_V+ : AN12_V+ (Wire ID = 1034582 )	Color	Default
	DIFFERENTIAL_PAIR	DP6
	Name	AN12_V+

Object	Property Name	Property Value
AN12_V- : AN12_V- (Wire ID = 1034594 )	DIFFERENTIAL_PAIR	DP6
	Color	Default
	Name	AN12_V-

Object	Property Name	Property Value
AN12_V- : AN12_V- (Wire ID = 1034598 )	DIFFERENTIAL_PAIR	DP6
	Color	Default
	Name	AN12_V-

Object	Property Name	Property Value
AN12_V- : AN12_V- (Wire ID = 1034600 )	DIFFERENTIAL_PAIR	DP6
	Color	Default
	Name	AN12_V-

Object	Property Name	Property Value
AIN_AN12 : AIN_AN12 (Wire ID = 1034761 )	Color	Default
	Name	AIN_AN12

Object	Property Name	Property Value
AN13_V+ : AN13_V+ (Wire ID = 1034956 )	DIFFERENTIAL_PAIR	DP7
	Color	Default
	Name	AN13_V+

Object	Property Name	Property Value
AIN_AN13 : AIN_AN13 (Wire ID = 1034962 )	Color	Default
	Name	AIN_AN13

Object	Property Name	Property Value
AN13_V- : AN13_V- (Wire ID = 1034968 )	DIFFERENTIAL_PAIR	DP7
	Color	Default
	Name	AN13_V-

Object	Property Name	Property Value
AN13_V- : AN13_V- (Wire ID = 1035009 )	DIFFERENTIAL_PAIR	DP7
	Color	Default
	Name	AN13_V-

Object	Property Name	Property Value
AN13_V- : AN13_V- (Wire ID = 1035013 )	DIFFERENTIAL_PAIR	DP7
	Color	Default
	Name	AN13_V-

Object	Property Name	Property Value
AN14_V+ : AN14_V+ (Wire ID = 1035194 )	DIFFERENTIAL_PAIR	DP8
	Color	Default
	Name	AN14_V+

Object	Property Name	Property Value
AIN_AN14 : AIN_AN14 (Wire ID = 1035208 )	Color	Default
	Name	AIN_AN14

Object	Property Name	Property Value
AN14_V- : AN14_V- (Wire ID = 1035214 )	DIFFERENTIAL_PAIR	DP8
	Color	Default
	Name	AN14_V-

Object	Property Name	Property Value
AN14_V- : AN14_V- (Wire ID = 1035218 )	DIFFERENTIAL_PAIR	DP8
	Color	Default
	Name	AN14_V-

Object	Property Name	Property Value
AN14_V- : AN14_V- (Wire ID = 1035222 )	DIFFERENTIAL_PAIR	DP8
	Color	Default
	Name	AN14_V-

Object	Property Name	Property Value
AN15_V+ : AN15_V+ (Wire ID = 1035392 )	DIFFERENTIAL_PAIR	DP9
	Color	Default
	Name	AN15_V+

Object	Property Name	Property Value
AIN_AN15 : AIN_AN15 (Wire ID = 1035406 )	Color	Default
	Name	AIN_AN15

Object	Property Name	Property Value
AN15_V- : AN15_V- (Wire ID = 1035412 )	DIFFERENTIAL_PAIR	DP9
	Color	Default
	Name	AN15_V-

Object	Property Name	Property Value
AN15_V- : AN15_V- (Wire ID = 1035416 )	DIFFERENTIAL_PAIR	DP9
	Color	Default
	Name	AN15_V-

Object	Property Name	Property Value
AN15_V- : AN15_V- (Wire ID = 1035420 )	DIFFERENTIAL_PAIR	DP9
	Color	Default
	Name	AN15_V-

Object	Property Name	Property Value
AN0_V+ : AN0_V+ (Wire ID = 1035862 )	DIFFERENTIAL_PAIR	DP5
	Color	Default
	Name	AN0_V+

Object	Property Name	Property Value
AIN_AN0 : AIN_AN0 (Wire ID = 1035876 )	Color	Default
	Name	AIN_AN0

Object	Property Name	Property Value
AN0_V- : AN0_V- (Wire ID = 1035882 )	DIFFERENTIAL_PAIR	DP5
	Color	Default
	Name	AN0_V-

Object	Property Name	Property Value
AN0_V- : AN0_V- (Wire ID = 1035886 )	DIFFERENTIAL_PAIR	DP5
	Color	Default
	Name	AN0_V-

Object	Property Name	Property Value
AN0_V- : AN0_V- (Wire ID = 1035890 )	DIFFERENTIAL_PAIR	DP5
	Color	Default
	Name	AN0_V-

Object	Property Name	Property Value
AN1_V+ : AN1_V+ (Wire ID = 1035922 )	DIFFERENTIAL_PAIR	DP10
	Color	Default
	Name	AN1_V+

Object	Property Name	Property Value
AIN_AN1 : AIN_AN1 (Wire ID = 1035936 )	Color	Default
	Name	AIN_AN1

Object	Property Name	Property Value
AN1_V- : AN1_V- (Wire ID = 1035942 )	DIFFERENTIAL_PAIR	DP10
	Color	Default
	Name	AN1_V-

Object	Property Name	Property Value
AN1_V- : AN1_V- (Wire ID = 1035946 )	DIFFERENTIAL_PAIR	DP10
	Color	Default
	Name	AN1_V-

Object	Property Name	Property Value
AN1_V- : AN1_V- (Wire ID = 1035950 )	DIFFERENTIAL_PAIR	DP10
	Color	Default
	Name	AN1_V-

Object	Property Name	Property Value
CAN_TX : CAN_TX (Wire ID = 1037388 )	Color	Default
	Name	CAN_TX

Object	Property Name	Property Value
CAN_RX : CAN_RX (Wire ID = 1037394 )	Color	Default
	Name	CAN_RX

Object	Property Name	Property Value
CAN_LBK : CAN_LBK (Wire ID = 1037400 )	Color	Default
	Name	CAN_LBK

Object	Property Name	Property Value
UART1_TX : UART1_TX (Wire ID = 1037774 )	Color	Default
	Name	UART1_TX

Object	Property Name	Property Value
UART1_RTS : UART1_RTS (Wire ID = 1037780 )	Color	Default
	Name	UART1_RTS

Object	Property Name	Property Value
UART1_CTS : UART1_CTS (Wire ID = 1037786 )	Color	Default
	Name	UART1_CTS

Object	Property Name	Property Value
UART1_RX : UART1_RX (Wire ID = 1037792 )	Color	Default
	Name	UART1_RX

Object	Property Name	Property Value
MKB1_AIN : MKB1_AIN (Wire ID = 1038103 )	Color	Default
	Name	MKB1_AIN

Object	Property Name	Property Value
MKB1_PWM : MKB1_PWM (Wire ID = 1038121 )	Color	Default
	Name	MKB1_PWM

Object	Property Name	Property Value
MKB1_INT : MKB1_INT (Wire ID = 1038139 )	Color	Default
	Name	MKB1_INT

Object	Property Name	Property Value
MKB1_nCS : MKB1_NCS (Wire ID = 1038145 )	Color	Default
	Name	MKB1_NCS

Object	Property Name	Property Value
MKB1_RST : MKB1_RST (Wire ID = 1038169 )	Color	Default
	Name	MKB1_RST

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1041119 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1041123 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1041339 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1041343 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1041697 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1041701 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1041759 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1041763 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1041850 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1041854 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1041916 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1041920 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
ASDA1 : ASDA1 (Wire ID = 1071191 )	Color	Default
	Name	ASDA1

Object	Property Name	Property Value
ASCL1 : ASCL1 (Wire ID = 1071197 )	Color	Default
	Name	ASCL1

Object	Property Name	Property Value
UART2_TX : UART2_TX (Wire ID = 1071233 )	Color	Default
	Name	UART2_TX

Object	Property Name	Property Value
UART2_RX : UART2_RX (Wire ID = 1071239 )	Color	Default
	Name	UART2_RX

Object	Property Name	Property Value
SPI4_MISO : SPI4_MISO (Wire ID = 1071261 )	Color	Default
	Name	SPI4_MISO

Object	Property Name	Property Value
SPI4_MOSI : SPI4_MOSI (Wire ID = 1071280 )	Color	Default
	Name	SPI4_MOSI

Object	Property Name	Property Value
SPI4_SCLK : SPI4_SCLK (Wire ID = 1071299 )	Color	Default
	Name	SPI4_SCLK

Object	Property Name	Property Value
MKB2_AIN : MKB2_AIN (Wire ID = 1071348 )	Color	Default
	Name	MKB2_AIN

Object	Property Name	Property Value
MKB2_PWM : MKB2_PWM (Wire ID = 1071354 )	Color	Default
	Name	MKB2_PWM

Object	Property Name	Property Value
MKB2_INT : MKB2_INT (Wire ID = 1071360 )	Color	Default
	Name	MKB2_INT

Object	Property Name	Property Value
MKB2_nCS : MKB2_NCS (Wire ID = 1071366 )	Color	Default
	Name	MKB2_NCS

Object	Property Name	Property Value
MKB2_RST : MKB2_RST (Wire ID = 1071372 )	Color	Default
	Name	MKB2_RST

Object	Property Name	Property Value
SERVO3 : SERVO3 (Wire ID = 1073729 )	Color	Default
	Name	SERVO3

Object	Property Name	Property Value
SPI1_SCLK : SPI1_SCLK (Wire ID = 1077410 )	Color	Default
	Name	SPI1_SCLK

Object	Property Name	Property Value
SPI1_MISO : SPI1_MISO (Wire ID = 1077416 )	Color	Default
	Name	SPI1_MISO

Object	Property Name	Property Value
SPI1_MOSI : SPI1_MOSI (Wire ID = 1077422 )	Color	Default
	Name	SPI1_MOSI

Object	Property Name	Property Value
SPI1_nCS : SPI1_NCS (Wire ID = 1077428 )	Color	Default
	Name	SPI1_NCS

Object	Property Name	Property Value
FT8XX_nINT : FT8XX_NINT (Wire ID = 1077434 )	Color	Default
	Name	FT8XX_NINT

Object	Property Name	Property Value
FT8XX_nPD : FT8XX_NPD (Wire ID = 1077440 )	Color	Default
	Name	FT8XX_NPD

Object	Property Name	Property Value
SPI2_MOSI : SPI2_MOSI (Wire ID = 1078429 )	Color	Default
	Name	SPI2_MOSI

Object	Property Name	Property Value
SPI2_SCLK : SPI2_SCLK (Wire ID = 1078455 )	Color	Default
	Name	SPI2_SCLK

Object	Property Name	Property Value
SPI2_MISO : SPI2_MISO (Wire ID = 1078481 )	Color	Default
	Name	SPI2_MISO

Object	Property Name	Property Value
SD_nCS : SD_NCS (Wire ID = 1078507 )	Color	Default
	Name	SD_NCS

Object	Property Name	Property Value
FLASH_nCS : FLASH_NCS (Wire ID = 1078533 )	Color	Default
	Name	FLASH_NCS

Object	Property Name	Property Value
FLASH_nHOLD : FLASH_NHOLD (Wire ID = 1078551 )	Color	Default
	Name	FLASH_NHOLD

Object	Property Name	Property Value
FLASH_nWP : FLASH_NWP (Wire ID = 1078570 )	Color	Default
	Name	FLASH_NWP

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
MKB1_AIN : MKB1_AIN (Wire ID = 1079471 )	Color	Default
	Name	MKB1_AIN

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
MKB1_PWM : MKB1_PWM (Wire ID = 1079477 )	Color	Default
	Name	MKB1_PWM

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
MKB1_INT : MKB1_INT (Wire ID = 1079483 )	Color	Default
	Name	MKB1_INT

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
MKB1_nCS : MKB1_NCS (Wire ID = 1079489 )	Color	Default
	Name	MKB1_NCS

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
MKB1_RST : MKB1_RST (Wire ID = 1079495 )	Color	Default
	Name	MKB1_RST

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
MKB2_AIN : MKB2_AIN (Wire ID = 1079501 )	Color	Default
	Name	MKB2_AIN

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
MKB2_PWM : MKB2_PWM (Wire ID = 1079507 )	Color	Default
	Name	MKB2_PWM

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
MKB2_INT : MKB2_INT (Wire ID = 1079513 )	Color	Default
	Name	MKB2_INT

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
MKB2_nCS : MKB2_NCS (Wire ID = 1079519 )	Color	Default
	Name	MKB2_NCS

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
MKB2_RST : MKB2_RST (Wire ID = 1079525 )	Color	Default
	Name	MKB2_RST

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
SPI4_MISO : SPI4_MISO (Wire ID = 1079531 )	Color	Default
	Name	SPI4_MISO

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
SPI4莫斯I : SPI4_MOSI (Wire ID = 1079537 )	Color	Default
	Name	SPI4_MOSI

Object	Property Name	Property Value
SPI4_SCLK : SPI4_SCLK (Wire ID = 1079543 )	Color	Default
	Name	SPI4_SCLK

Object	Property Name	Property Value
UART2_TX : UART2_TX (Wire ID = 1079549 )	Color	Default
	Name	UART2_TX

Object	Property Name	Property Value
UART2_RX : UART2_RX (Wire ID = 1079555 )	Color	Default
	Name	UART2_RX

Object	Property Name	Property Value
ASDA1 : ASDA1 (Wire ID = 1079561 )	Color	Default
	Name	ASDA1

Object	Property Name	Property Value
ASCL1 : ASCL1 (Wire ID = 1079567 )	Color	Default
	Name	ASCL1

Object	Property Name	Property Value
PMA[0..13] : PMA[0..13] (Wire ID = 1083275 )	Color	Default
	Name	PMA[0..13]

Object	Property Name	Property Value
PMA[0..13] : PMA[0..13] (Wire ID = 1083399 )	Color	Default
	Name	PMA[0..13]

Object	Property Name	Property Value
PMA[0..13] : PMA[0..13] (Wire ID = 1083523 )	Color	Default
	Name	PMA[0..13]

Object	Property Name	Property Value
PMA[0..13] : PMA[0..13] (Wire ID = 1083653 )	Color	Default
	Name	PMA[0..13]

Object	Property Name	Property Value
PMA0 : PMA0 (Wire ID = 1083734 )	Color	Default
	Name	PMA0

Object	Property Name	Property Value
PMA1 : PMA1 (Wire ID = 1083819 )	Color	Default
	Name	PMA1

Object	Property Name	Property Value
PMA2 : PMA2 (Wire ID = 1083859 )	Color	Default
	Name	PMA2

Object	Property Name	Property Value
PMA3 : PMA3 (Wire ID = 1083879 )	Color	Default
	Name	PMA3

Object	Property Name	Property Value
PMA4 : PMA4 (Wire ID = 1083919 )	Color	Default
	Name	PMA4

Object	Property Name	Property Value
PMA5 : PMA5 (Wire ID = 1083939 )	Color	Default
	Name	PMA5

Object	Property Name	Property Value
PMA6 : PMA6 (Wire ID = 1083979 )	Color	Default
	Name	PMA6

Object	Property Name	Property Value
PMA7 : PMA7 (Wire ID = 1083999 )	Color	Default
	Name	PMA7

Object	Property Name	Property Value
PMA8 : PMA8 (Wire ID = 1084059 )	Color	Default
	Name	PMA8

Object	Property Name	Property Value
PMA[0..13] : PMA[0..13] (Wire ID = 1084210 )	Color	Default
	Name	PMA[0..13]

Object	Property Name	Property Value
PMA[0..13] : PMA[0..13] (Wire ID = 1084212 )	Color	Default
	Name	PMA[0..13]

Object	Property Name	Property Value
PMA[0..13] : PMA[0..13] (Wire ID = 1084216 )	Color	Default
	Name	PMA[0..13]

Object	Property Name	Property Value
PMA[0..13] : PMA[0..13] (Wire ID = 1084218 )	Color	Default
	Name	PMA[0..13]

Object	Property Name	Property Value
PMA[0..13] : PMA[0..13] (Wire ID = 1084222 )	Color	Default
	Name	PMA[0..13]

Object	Property Name	Property Value
PMA[0..13] : PMA[0..13] (Wire ID = 1084224 )	Color	Default
	Name	PMA[0..13]

Object	Property Name	Property Value
PMA[0..13] : PMA[0..13] (Wire ID = 1084228 )	Color	Default
	Name	PMA[0..13]

Object	Property Name	Property Value
PMA9 : PMA9 (Wire ID = 1084316 )	Color	Default
	Name	PMA9

Object	Property Name	Property Value
PMA10 : PMA10 (Wire ID = 1084356 )	Color	Default
	Name	PMA10

Object	Property Name	Property Value
PMA11 : PMA11 (Wire ID = 1084376 )	Color	Default
	Name	PMA11

Object	Property Name	Property Value
PMA12 : PMA12 (Wire ID = 1084976 )	Color	Default
	Name	PMA12

Object	Property Name	Property Value
PMA13 : PMA13 (Wire ID = 1084996 )	Color	Default
	Name	PMA13

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1085125 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1085127 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1085193 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1085195 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1085229 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1085231 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1085269 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1085271 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1085439 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1085441 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1085487 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1085489 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1085537 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1085539 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DVDD_3V3 : DVDD_3V3 (Wire ID = 1085591 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : DVDD_3V3 (Wire ID = 1085600 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : DVDD_3V3 (Wire ID = 1085604 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : DVDD_3V3 (Wire ID = 1085616 )	Color	Default
	Name	DVDD_3V3

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DVDD_3V3 : DVDD_3V3 (Wire ID = 1085618 )	Color	Default
	Name	DVDD_3V3

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : DGND (Wire ID = 1086088 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : DGND (Wire ID = 1086092 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : DGND (Wire ID = 1086096 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : DGND (Wire ID = 1086100 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : DGND (Wire ID = 1086104 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : DGND (Wire ID = 1086108 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : DGND (Wire ID = 1086112 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : DGND (Wire ID = 1086116 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : DGND (Wire ID = 1086120 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : DGND (Wire ID = 1086124 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : DGND (Wire ID = 1086128 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1086132 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
PMD[0..7] : PMD[0..7] (Wire ID = 1086785 )	Color	Default
	Name	PMD[0..7]

Object	Property Name	Property Value
PMD[0..7] : PMD[0..7] (Wire ID = 1086791 )	Color	Default
	Name	PMD[0..7]

Object	Property Name	Property Value
PMD0 : PMD0 (Wire ID = 1087106 )	Color	Default
	Name	PMD0

Object	Property Name	Property Value
PMD1 : PMD1 (Wire ID = 1087174 )	Color	Default
	Name	PMD1

Object	Property Name	Property Value
PMD2 : PMD2 (Wire ID = 1087194 )	Color	Default
	Name	PMD2

Object	Property Name	Property Value
PMD3 : PMD3 (Wire ID = 1087214 )	Color	Default
	Name	PMD3

Object	Property Name	Property Value
PMD4 : PMD4 (Wire ID = 1087234 )	Color	Default
	Name	PMD4

Object	Property Name	Property Value
PMD5 : PMD5 (Wire ID = 1087254 )	Color	Default
	Name	PMD5

Object	Property Name	Property Value
PMD6 : PMD6 (Wire ID = 1087274 )	Color	Default
	Name	PMD6

Object	Property Name	Property Value
PMD7 : PMD7 (Wire ID = 1087422 )	Color	Default
	Name	PMD7

Object	Property Name	Property Value
PMD[0..7] : PMD[0..7] (Wire ID = 1087603 )	Color	Default
	Name	PMD[0..7]

Object	Property Name	Property Value
PMD[0..7] : PMD[0..7] (Wire ID = 1087605 )	Color	Default
	Name	PMD[0..7]

Object	Property Name	Property Value
PMD[0..7] : PMD[0..7] (Wire ID = 1087607 )	Color	Default
	Name	PMD[0..7]

Object	Property Name	Property Value
PMD[0..7] : PMD[0..7] (Wire ID = 1087609 )	Color	Default
	Name	PMD[0..7]

Object	Property Name	Property Value
PMD[0..7] : PMD[0..7] (Wire ID = 1087611 )	Color	Default
	Name	PMD[0..7]

Object	Property Name	Property Value
PMD[0..7] : PMD[0..7] (Wire ID = 1087613 )	Color	Default
	Name	PMD[0..7]

Object	Property Name	Property Value
PMD[0..7] : PMD[0..7] (Wire ID = 1087615 )	Color	Default
	Name	PMD[0..7]

Object	Property Name	Property Value
PMA[0..13] : PMA[0..13] (Wire ID = 1089856 )	Color	Default
	Name	PMA[0..13]

Object	Property Name	Property Value
PMA[0..13] : PMA[0..13] (Wire ID = 1089947 )	Color	Default
	Name	PMA[0..13]

Object	Property Name	Property Value
PMA[0..13] : PMA[0..13] (Wire ID = 1090039 )	Color	Default
	Name	PMA[0..13]

Object	Property Name	Property Value
PMA[0..13] : PMA[0..13] (Wire ID = 1090132 )	Color	Default
	Name	PMA[0..13]

Object	Property Name	Property Value
PMA[0..13] : PMA[0..13] (Wire ID = 1090226 )	Color	Default
	Name	PMA[0..13]

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1090499 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : DGND (Wire ID = 1090503 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
PMCS2 : PMCS2 (Wire ID = 1090601 )	Color	Default
	Name	PMCS2

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
PMCS1 : PMCS1 (Wire ID = 1090607 )	Color	Default
	Name	PMCS1

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
PMWR : PMWR (Wire ID = 1090613 )	Color	Default
	Name	PMWR

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
PMRD : PMRD (Wire ID = 1090619 )	Color	Default
	Name	PMRD

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
PMBE : PMBE (Wire ID = 1090625 )	Color	Default
	Name	PMBE

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
PMP_GPIO : PMP_GPIO (Wire ID = 1091787 )	Color	Default
	Name	PMP_GPIO

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DVDD_3V3 : DVDD_3V3 (Wire ID = 1092187 )	Color	Default
	Name	DVDD_3V3

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DVDD_3V3 : DVDD_3V3 (Wire ID = 1092191 )	Color	Default
	Name	DVDD_3V3

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DVDD_3V3 : DVDD_3V3 (Wire ID = 1092195 )	Color	Default
	Name	DVDD_3V3

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DVDD_3V3 : DVDD_3V3 (Wire ID = 1092199 )	Color	Default
	Name	DVDD_3V3

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DVDD_3V3 : DVDD_3V3 (Wire ID = 1092203 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
SD_nDETECT : SD_NDETECT (Wire ID = 1100669 )	Color	Default
	Name	SD_NDETECT

Object	Property Name	Property Value
LED_4 : LED_4 (Wire ID = 1109509 )	Color	Default
	Name	LED_4

Object	Property Name	Property Value
LED_3 : LED_3 (Wire ID = 1109521 )	Color	Default
	Name	LED_3

Object	Property Name	Property Value
LED_2 : LED_2 (Wire ID = 1109533 )	Color	Default
	Name	LED_2

Object	Property Name	Property Value
LED_1 : LED_1 (Wire ID = 1109545 )	Color	Default
	Name	LED_1

Object	Property Name	Property Value
LED_2 : LED_2 (Wire ID = 1112605 )	Color	Default
	Name	LED_2

Object	Property Name	Property Value
LED_1 : LED_1 (Wire ID = 1112623 )	Color	Default
	Name	LED_1

Object	Property Name	Property Value
LED_3 : LED_3 (Wire ID = 1112642 )	Color	Default
	Name	LED_3

Object	Property Name	Property Value
LED_4 : LED_4 (Wire ID = 1112662 )	Color	Default
	Name	LED_4

Object	Property Name	Property Value
ROT_ENC_SW : ROT_ENC_SW (Wire ID = 1112748 )	Color	Default
	Name	ROT_ENC_SW

Object	Property Name	Property Value
ROT_ENC_A : ROT_ENC_A (Wire ID = 1112766 )	Color	Default
	Name	ROT_ENC_A

Object	Property Name	Property Value
ROT_ENC_B : ROT_ENC_B (Wire ID = 1112792 )	Color	Default
	Name	ROT_ENC_B

Object	Property Name	Property Value
AIN_AN2_POT : AIN_AN2_POT (Wire ID = 1113748 )	Color	Default
	Name	AIN_AN2_POT

Object	Property Name	Property Value
SPI3_nCS : SPI3_NCS (Wire ID = 1114980 )	Color	Default
	Name	SPI3_NCS

Object	Property Name	Property Value
SPI3_MOSI : SPI3_MOSI (Wire ID = 1114986 )	Color	Default
	Name	SPI3_MOSI

Object	Property Name	Property Value
SPI3_SCLK : SPI3_SCLK (Wire ID = 1114992 )	Color	Default
	Name	SPI3_SCLK

Object	Property Name	Property Value
I2S_DOUT : I2S_DOUT (Wire ID = 1114998 )	Color	Default
	Name	I2S_DOUT

Object	Property Name	Property Value
I2S_DIN : I2S_DIN (Wire ID = 1115004 )	Color	Default
	Name	I2S_DIN

Object	Property Name	Property Value
I2S_COFS : I2S_COFS (Wire ID = 1115010 )	Color	Default
	Name	I2S_COFS

Object	Property Name	Property Value
I2S_SCLK : I2S_SCLK (Wire ID = 1115016 )	Color	Default
	Name	I2S_SCLK

Object	Property Name	Property Value
PWM1L : PWM1L (Wire ID = 1117763 )	Color	Default
	Name	PWM1L

Object	Property Name	Property Value
PWM1H : PWM1H (Wire ID = 1117769 )	Color	Default
	Name	PWM1H

Object	Property Name	Property Value
nFAULT1 : NFAULT1 (Wire ID = 1117775 )	Color	Default
	Name	NFAULT1

Object	Property Name	Property Value
QEA1 : QEA1 (Wire ID = 1117781 )	Color	Default
	Name	QEA1

Object	Property Name	Property Value
QEB1 : QEB1 (Wire ID = 1117787 )	Color	Default
	Name	QEB1

Object	Property Name	Property Value
PWM2L : PWM2L (Wire ID = 1119754 )	Color	Default
	Name	PWM2L

Object	Property Name	Property Value
PWM2H : PWM2H (Wire ID = 1119760 )	Color	Default
	Name	PWM2H

Object	Property Name	Property Value
nFAULT2 : nFAULT2 (Wire ID = 1119766 )	Color	Default
	Name	nFAULT2

Object	Property Name	Property Value
QEA2 : QEA2 (Wire ID = 1119772 )	Color	Default
	Name	QEA2

Object	Property Name	Property Value
QEB2 : QEB2 (Wire ID = 1119778 )	Color	Default
	Name	QEB2

Object	Property Name	Property Value
PMP_GPIO : PMP_GPIO (Wire ID = 1122266 )	Color	Default
	Name	PMP_GPIO

Object	Property Name	Property Value
PMCS2 : PMCS2 (Wire ID = 1122272 )	Color	Default
	Name	PMCS2

Object	Property Name	Property Value
PMCS1 : PMCS1 (Wire ID = 1122278 )	Color	Default
	Name	PMCS1

Object	Property Name	Property Value
PMWR : PMWR (Wire ID = 1122284 )	Color	Default
	Name	PMWR

Object	Property Name	Property Value
PMRD : PMRD (Wire ID = 1122290 )	Color	Default
	Name	PMRD

Object	Property Name	Property Value
PMBE : PMBE (Wire ID = 1122296 )	Color	Default
	Name	PMBE

Object	Property Name	Property Value
PMD7 : PMD7 (Wire ID = 1122302 )	Color	Default
	Name	PMD7

Object	Property Name	Property Value
PMD6 : PMD6 (Wire ID = 1122310 )	Color	Default
	Name	PMD6

Object	Property Name	Property Value
PMD[0..7] : PMD[0..7] (Wire ID = 1122318 )	Color	Default
	Name	PMD[0..7]

Object	Property Name	Property Value
PMD5 : PMD5 (Wire ID = 1122322 )	Color	Default
	Name	PMD5

Object	Property Name	Property Value
PMD[0..7] : PMD[0..7] (Wire ID = 1122330 )	Color	Default
	Name	PMD[0..7]

Object	Property Name	Property Value
PMD4 : PMD4 (Wire ID = 1122334 )	Color	Default
	Name	PMD4

Object	Property Name	Property Value
PMD[0..7] : PMD[0..7] (Wire ID = 1122342 )	Color	Default
	Name	PMD[0..7]

Object	Property Name	Property Value
PMD3 : PMD3 (Wire ID = 1122346 )	Color	Default
	Name	PMD3

Object	Property Name	Property Value
PMD[0..7] : PMD[0..7] (Wire ID = 1122354 )	Color	Default
	Name	PMD[0..7]

Object	Property Name	Property Value
PMD2 : PMD2 (Wire ID = 1122358 )	Color	Default
	Name	PMD2

Object	Property Name	Property Value
PMD[0..7] : PMD[0..7] (Wire ID = 1122366 )	Color	Default
	Name	PMD[0..7]

Object	Property Name	Property Value
PMD1 : PMD1 (Wire ID = 1122370 )	Color	Default
	Name	PMD1

Object	Property Name	Property Value
PMD[0..7] : PMD[0..7] (Wire ID = 1122378 )	Color	Default
	Name	PMD[0..7]

Object	Property Name	Property Value
PMD0 : PMD0 (Wire ID = 1122382 )	Color	Default
	Name	PMD0

Object	Property Name	Property Value
PMD[0..7] : PMD[0..7] (Wire ID = 1122390 )	Color	Default
	Name	PMD[0..7]

Object	Property Name	Property Value
PMD[0..7] : PMD[0..7] (Wire ID = 1122394 )	Color	Default
	Name	PMD[0..7]

Object	Property Name	Property Value
PMA13 : PMA13 (Wire ID = 1122400 )	Color	Default
	Name	PMA13

Object	Property Name	Property Value
PMA12 : PMA12 (Wire ID = 1122408 )	Color	Default
	Name	PMA12

Object	Property Name	Property Value
PMA[0..13] : PMA[0..13] (Wire ID = 1122416 )	Color	Default
	Name	PMA[0..13]

Object	Property Name	Property Value
PMA11 : PMA11 (Wire ID = 1122420 )	Color	Default
	Name	PMA11

Object	Property Name	Property Value
PMA[0..13] : PMA[0..13] (Wire ID = 1122428 )	Color	Default
	Name	PMA[0..13]

Object	Property Name	Property Value
PMA10 : PMA10 (Wire ID = 1122432 )	Color	Default
	Name	PMA10

Object	Property Name	Property Value
PMA[0..13] : PMA[0..13] (Wire ID = 1122440 )	Color	Default
	Name	PMA[0..13]

Object	Property Name	Property Value
PMA9 : PMA9 (Wire ID = 1122444 )	Color	Default
	Name	PMA9

Object	Property Name	Property Value
PMA[0..13] : PMA[0..13] (Wire ID = 1122452 )	Color	Default
	Name	PMA[0..13]

Object	Property Name	Property Value
PMA8 : PMA8 (Wire ID = 1122456 )	Color	Default
	Name	PMA8

Object	Property Name	Property Value
PMA[0..13] : PMA[0..13] (Wire ID = 1122464 )	Color	Default
	Name	PMA[0..13]

Object	Property Name	Property Value
PMA7 : PMA7 (Wire ID = 1122468 )	Color	Default
	Name	PMA7

Object	Property Name	Property Value
PMA[0..13] : PMA[0..13] (Wire ID = 1122476 )	Color	Default
	Name	PMA[0..13]

Object	Property Name	Property Value
PMA6 : PMA6 (Wire ID = 1122480 )	Color	Default
	Name	PMA6

Object	Property Name	Property Value
PMA[0..13] : PMA[0..13] (Wire ID = 1122488 )	Color	Default
	Name	PMA[0..13]

Object	Property Name	Property Value
PMA5 : PMA5 (Wire ID = 1122492 )	Color	Default
	Name	PMA5

Object	Property Name	Property Value
PMA[0..13] : PMA[0..13] (Wire ID = 1122500 )	Color	Default
	Name	PMA[0..13]

Object	Property Name	Property Value
PMA4 : PMA4 (Wire ID = 1122504 )	Color	Default
	Name	PMA4

Object	Property Name	Property Value
PMA[0..13] : PMA[0..13] (Wire ID = 1122512 )	Color	Default
	Name	PMA[0..13]

Object	Property Name	Property Value
PMA3 : PMA3 (Wire ID = 1122516 )	Color	Default
	Name	PMA3

Object	Property Name	Property Value
PMA[0..13] : PMA[0..13] (Wire ID = 1122524 )	Color	Default
	Name	PMA[0..13]

Object	Property Name	Property Value
PMA2 : PMA2 (Wire ID = 1122528 )	Color	Default
	Name	PMA2

Object	Property Name	Property Value
PMA[0..13] : PMA[0..13] (Wire ID = 1122536 )	Color	Default
	Name	PMA[0..13]

Object	Property Name	Property Value
PMA1 : PMA1 (Wire ID = 1122540 )	Color	Default
	Name	PMA1

Object	Property Name	Property Value
PMA[0..13] : PMA[0..13] (Wire ID = 1122548 )	Color	Default
	Name	PMA[0..13]

Object	Property Name	Property Value
PMA0 : PMA0 (Wire ID = 1122552 )	Color	Default
	Name	PMA0

Object	Property Name	Property Value
PMA[0..13] : PMA[0..13] (Wire ID = 1122560 )	Color	Default
	Name	PMA[0..13]

Object	Property Name	Property Value
PMA[0..13] : PMA[0..13] (Wire ID = 1122564 )	Color	Default
	Name	PMA[0..13]

Object	Property Name	Property Value
ROT_ENC_A : ROT_ENC_A (Wire ID = 1135457 )	Color	Default
	Name	ROT_ENC_A

Object	Property Name	Property Value
ROT_ENC_B : ROT_ENC_B (Wire ID = 1135561 )	Color	Default
	Name	ROT_ENC_B

Object	Property Name	Property Value
ROT_ENC_SW : ROT_ENC_SW (Wire ID = 1135666 )	Color	Default
	Name	ROT_ENC_SW

Object	Property Name	Property Value
AIN_AN2_POT : AIN_AN2_POT (Wire ID = 1136157 )	Color	Default
	Name	AIN_AN2_POT

Object	Property Name	Property Value
SPI1_SCLK : SPI1_SCLK (Wire ID = 1136714 )	Color	Default
	Name	SPI1_SCLK

Object	Property Name	Property Value
SPI1_MISO : SPI1_MISO (Wire ID = 1136720 )	Color	Default
	Name	SPI1_MISO

Object	Property Name	Property Value
SPI1_MOSI : SPI1_MOSI (Wire ID = 1136726 )	Color	Default
	Name	SPI1_MOSI

Object	Property Name	Property Value
SPI1_nCS : SPI1_NCS (Wire ID = 1136732 )	Color	Default
	Name	SPI1_NCS

Object	Property Name	Property Value
FT8XX_nINT : FT8XX_NINT (Wire ID = 1136738 )	Color	Default
	Name	FT8XX_NINT

Object	Property Name	Property Value
FT8XX_nPD : FT8XX_NPD (Wire ID = 1136744 )	Color	Default
	Name	FT8XX_NPD

Object	Property Name	Property Value
AIN_AN12 : AIN_AN12 (Wire ID = 1139146 )	Color	Default
	Name	AIN_AN12

Object	Property Name	Property Value
AIN_AN13 : AIN_AN13 (Wire ID = 1139152 )	Color	Default
	Name	AIN_AN13

Object	Property Name	Property Value
AIN_AN14 : AIN_AN14 (Wire ID = 1139158 )	Color	Default
	Name	AIN_AN14

Object	Property Name	Property Value
AIN_AN15 : AIN_AN15 (Wire ID = 1139164 )	Color	Default
	Name	AIN_AN15

Object	Property Name	Property Value
AIN_AN0 : AIN_AN0 (Wire ID = 1140776 )	Color	Default
	Name	AIN_AN0

Object	Property Name	Property Value
AIN_AN1 : AIN_AN1 (Wire ID = 1140782 )	Color	Default
	Name	AIN_AN1

Object	Property Name	Property Value
SD_nCS : SD_NCS (Wire ID = 1141675 )	Color	Default
	Name	SD_NCS

Object	Property Name	Property Value
SPI2_MOSI : SPI2_MOSI (Wire ID = 1141681 )	Color	Default
	Name	SPI2_MOSI

Object	Property Name	Property Value
SPI2_SCLK : SPI2_SCLK (Wire ID = 1141687 )	Color	Default
	Name	SPI2_SCLK

Object	Property Name	Property Value
SPI2_MISO : SPI2_MISO (Wire ID = 1141693 )	Color	Default
	Name	SPI2_MISO

Object	Property Name	Property Value
SD_nDETECT : SD_NDETECT (Wire ID = 1141699 )	Color	Default
	Name	SD_NDETECT

Object	Property Name	Property Value
FLASH_nCS : FLASH_NCS (Wire ID = 1141705 )	Color	Default
	Name	FLASH_NCS

Object	Property Name	Property Value
FLASH_nWP : FLASH_NWP (Wire ID = 1141711 )	Color	Default
	Name	FLASH_NWP

Object	Property Name	Property Value
FLASH_nHOLD : FLASH_NHOLD (Wire ID = 1141717 )	Color	Default
	Name	FLASH_NHOLD

Object	Property Name	Property Value
SWPWM_RGB_R : SWPWM_RGB_R (Wire ID = 114853 )	Color	Default
	Name	SWPWM_RGB_R

Object	Property Name	Property Value
SWPWM_RGB_G : SWPWM_RGB_G (Wire ID = 114854 )	Color	Default
	Name	SWPWM_RGB_G

Object	Property Name	Property Value
SWPWM_RGB_B : SWPWM_RGB_B (Wire ID = 114855 )	Color	Default
	Name	SWPWM_RGB_B

Object	Property Name	Property Value
SWPWM_RGB_R : SWPWM_RGB_R (Wire ID = 115187 )	Color	Default
	Name	SWPWM_RGB_R

Object	Property Name	Property Value
SWPWM_RGB_G : SWPWM_RGB_G (Wire ID = 1151)	Color	Default
	Name	SWPWM_RGB_G

Object	Property Name	Property Value
SWPWM_RGB_B : SWPWM_RGB_B (Wire ID = 1151)	Color	Default
	Name	SWPWM_RGB_B

Object	Property Name	Property Value
BTN_1 : BTN_1 (Wire ID = 1153106 )	Color	Default
	Name	BTN_1

Object	Property Name	Property Value
BTN_2 : BTN_2 (Wire ID = 1153112 )	Color	Default
	Name	BTN_2

Object	Property Name	Property Value
BTN_3 : BTN_3 (Wire ID = 1153118 )	Color	Default
	Name	BTN_3

Object	Property Name	Property Value
BTN_4 : BTN_4 (Wire ID = 1153124 )	Color	Default
	Name	BTN_4

Object	Property Name	Property Value
BTN_1 : BTN_1 (Wire ID = 1160434 )	Color	Default
	Name	BTN_1

Object	Property Name	Property Value
BTN_2 : BTN_2 (Wire ID = 1160440 )	Color	Default
	Name	BTN_2

Object	Property Name	Property Value
BTN_3 : BTN_3 (Wire ID = 1160446 )	Color	Default
	Name	BTN_3

Object	Property Name	Property Value
BTN_4 : BTN_4 (Wire ID = 1160452 )	Color	Default
	Name	BTN_4

Object	Property Name	Property Value
BUZZER : BUZZER (Wire ID = 1179147 )	Color	Default
	Name	BUZZER

Object	Property Name	Property Value
BUZZER : BUZZER (Wire ID = 1179584 )	Color	Default
	Name	BUZZER

Object	Property Name	Property Value
USB_UART_D- : USB_UART_D- (Wire ID = 1190757)	Color	Default
	DIFFERENTIAL_PAIR	DP4
	Name	USB_UART_D-

Object	Property Name	Property Value
USB_UART_D- : USB_UART_D- (Wire ID = 1190759)	Color	Default
	DIFFERENTIAL_PAIR	DP4
	Name	USB_UART_D-

Object	Property Name	Property Value
USB_UART_D+ : USB_UART_D+ (Wire ID = 1190771)	Color	Default
	DIFFERENTIAL_PAIR	DP4
	Name	USB_UART_D+

Object	Property Name	Property Value
USB_UART_D+ : USB_UART_D+ (Wire ID = 1190773)	Color	Default
	DIFFERENTIAL_PAIR	DP4
	Name	USB_UART_D+

Object	Property Name	Property Value
USB_UART_D_BRIDGE : USB_UART_D_BRIDGE (Wire ID = 1190800)	Color	DP14
	DIFFERENTIAL_PAIR	Default
	Name	USB_UART_D_BRIDGE

Object	Property Name	Property Value
USB_UART_D+_BRIDGE : USB_UART_D+_BRIDGE (Wire ID = 1190848)	Color	DP14
	DIFFERENTIAL_PAIR	Default
	Name	USB_UART_D+_BRIDGE

Object	Property Name	Property Value
USB_NATIVE_D- : USB_NATIVE_D- (Wire ID = 1190856)	Color	Default
	Name	USB_NATIVE_D-

Object	Property Name	Property Value
USB_NATIVE_D- : USB_NATIVE_D- (Wire ID = 1190856)	Color	Default
	Name	USB_NATIVE_D-

Object	Property Name	Property Value
USB_NATIVE_D+ : USB_NATIVE_D+ (Wire ID = 1190858)	Color	Default
	Name	USB_NATIVE_D+

Object	Property Name	Property Value
USB_NATIVE_D+ : USB_NATIVE_D+ (Wire ID = 1190858)	Color	Default
	DIFFERENTIAL_PAIR	DP13
	Name	USB_NATIVE_D+

Object	Property Name	Property Value
USB_NATIVE_D+_MCU : USB_NATIVE_D+_MCU (Wire ID = 1190952)	Color	Default
	DIFFERENTIAL_PAIR	DP13
	Name	USB_NATIVE_D+_MCU

Object	Property Name	Property Value
USB_NATIVE_D_MCU : USB_NATIVE_D_MCU (Wire ID = 1190988 )	DIFFERENTIAL_PAIR	DP13
	Color	Default
	Name	USB_NATIVE_D_MCU

Object	Property Name	Property Value
USB_UART_D_BRIDGE : USB_UART_D_BRIDGE (Wire ID = 1191985 )	DIFFERENTIAL_PAIR	DP14
	Color	Default
	Name	USB_UART_D_BRIDGE

Object	Property Name	Property Value
USB_UART_5V0 : USB_UART_5V0 (Wire ID = 119211 )	Color	Default
	Name	USB_UART_5V0
	Color	Default

Object	Property Name	Property Value
USB_UART_5V0 : USB_UART_5V0 (Wire ID = 119211 )	Color	Default
	Name	USB_UART_5V0
	Color	Default

Object	Property Name	Property Value
UART3_TX : UART3_TX (Wire ID = 1192138 )	Color	Default
	Name	UART3_TX
	Color	Default

Object	Property Name	Property Value
UART3_RX : UART3_RX (Wire ID = 1192156 )	Color	Default
	Name	UART3_RX
	Color	Default

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1192278 )	Color	Default
	Name	DGND
	Color	Default

Object	Property Name	Property Value
USB_NATIVE_5V0 : USB_NATIVE_5V0 (Wire ID = 1192291 )	Color	Default
	Name	USB_NATIVE_5V0
	Color	Default

Object	Property Name	Property Value
USB_NATIVE_5V0 : USB_NATIVE_5V0 (Wire ID = 1192291 )	Color	Default
	Name	USB_NATIVE_5V0
	Color	Default

Object	Property Name	Property Value
UART3_TX : UART3_TX (Wire ID = 1202150 )	Color	Default
	Name	UART3_TX
	Color	Default

Object	Property Name	Property Value
UART3_RX : UART3_RX (Wire ID = 1202156 )	Color	Default
	Name	UART3_RX
	Color	Default

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1232197 )	Color	Default
	Name	DGND
	Color	Default

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1232375 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1232517 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1232665 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1233607 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1233615 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1233623 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1233631 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
PMA0 : PMA0 (Wire ID = 1236546 )	Color	Default
	Name	PMA0

Object	Property Name	Property Value
PMA1 : PMA1 (Wire ID = 1236550 )	Color	Default
	Name	PMA1

Object	Property Name	Property Value
PMA2 : PMA2 (Wire ID = 1236554 )	Color	Default
	Name	PMA2

Object	Property Name	Property Value
PMA3 : PMA3 (Wire ID = 1236558 )	Color	Default
	Name	PMA3

Object	Property Name	Property Value
PMA4 : PMA4 (Wire ID = 1236594 )	Color	Default
	Name	PMA4

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
PMA5 : PMA5 (Wire ID = 1236598 )	Color	Default
	Name	PMA5

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
PMA6 : PMA6 (Wire ID = 1236602 )	Color	Default
	Name	PMA6

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
PMA7 : PMA7 (Wire ID = 1236606 )	Color	Default
	Name	PMA7

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
PMA8 : PMA8 (Wire ID = 1236642 )	Color	Default
	Name	PMA8

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
PMA9 : PMA9 (Wire ID = 1236646 )	Color	Default
	Name	PMA9

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
PMA10 : PMA10 (Wire ID = 1236650 )	Color	Default
	Name	PMA10

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
PMA11 : PMA11 (Wire ID = 1236654 )	Color	Default
	Name	PMA11

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
PMD0 : PMD0 (Wire ID = 1236690 )	Color	Default
	Name	PMD0

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
PMD1 : PMD1 (Wire ID = 1236694 )	Color	Default
	Name	PMD1

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
PMD2 : PMD2 (Wire ID = 1236698 )	Color	Default
	Name	PMD2

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
PMD3 : PMD3 (Wire ID = 1236702 )	Color	Default
	Name	PMD3

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
PMD4 : PMD4 (Wire ID = 1236738 )	Color	Default
	Name	PMD4

Object	Property Name	Property Value
PMD5 : PMD5 (Wire ID = 1236742 )	Color	Default
	Name	PMD5

Object	Property Name	Property Value
PMD6 : PMD6 (Wire ID = 1236746 )	Color	Default
	Name	PMD6

Object	Property Name	Property Value
PMD7 : PMD7 (Wire ID = 1236750 )	Color	Default
	Name	PMD7

Object	Property Name	Property Value
PMCS1 : PMCS1 (Wire ID = 1236834 )	Color	Default
	Name	PMCS1

Object	Property Name	Property Value
PMCS2 : PMCS2 (Wire ID = 1236838 )	Color	Default
	Name	PMCS2

Object	Property Name	Property Value
PMWR : PMWR (Wire ID = 1236842 )	Color	Default
	Name	PMWR

Object	Property Name	Property Value
PMRD : PMRD (Wire ID = 1236846 )	Color	Default
	Name	PMRD

Object	Property Name	Property Value
PMA12 : PMA12 (Wire ID = 1236870 )	Color	Default
	Name	PMA12

Object	Property Name	Property Value
PMA13 : PMA13 (Wire ID = 1236874 )	Color	Default
	Name	PMA13

Object	Property Name	Property Value
PMBE : PMBE (Wire ID = 1236894 )	Color	Default
	Name	PMBE

Object	Property Name	Property Value
PMP_GPIO : PMP_GPIO (Wire ID = 1236898 )	Color	Default
	Name	PMP_GPIO

Object	Property Name	Property Value
PMA0 : PMA0 (Wire ID = 1278561 )	Color	Default
	Name	PMA0

Object	Property Name	Property Value
PMA1 : PMA1 (Wire ID = 1278667 )	Color	Default
	Name	PMA1

Object	Property Name	Property Value
PMA2 : PMA2 (Wire ID = 1278774 )	Color	Default
	Name	PMA2

Object	Property Name	Property Value
PMA3 : PMA3 (Wire ID = 1278882 )	Color	Default
	Name	PMA3

Object	Property Name	Property Value
PMA4 : PMA4 (Wire ID = 1278991 )	Color	Default
	Name	PMA4

Object	Property Name	Property Value
PMA5 : PMA5 (Wire ID = 1279109 )	Color	Default
	Name	PMA5

Object	Property Name	Property Value
PMA6 : PMA6 (Wire ID = 1279228 )	Color	Default
	Name	PMA6

Object	Property Name	Property Value
PMA7 : PMA7 (Wire ID = 1279348 )	Color	Default
	Name	PMA7

Object	Property Name	Property Value
PMA8 : PMA8 (Wire ID = 1279469 )	Color	Default
	Name	PMA8

Object	Property Name	Property Value
PMA9 : PMA9 (Wire ID = 1279591 )	Color	Default
	Name	PMA9

Object	Property Name	Property Value
PMA10 : PMA10 (Wire ID = 1279714 )	Color	Default
	Name	PMA10

Object	Property Name	Property Value
PMA11 : PMA11 (Wire ID = 1279838 )	Color	Default
	Name	PMA11

Object	Property Name	Property Value
PMA12 : PMA12 (Wire ID = 1279963 )	Color	Default
	Name	PMA12

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
PMA13 : PMA13 (Wire ID = 1280089 )	Color	Default
	Name	PMA13

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
PMD0 : PMD0 (Wire ID = 1280216 )	Color	Default
	Name	PMD0

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
PMD1 : PMD1 (Wire ID = 1280266 )	Color	Default
	Name	PMD1

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
PMD2 : PMD2 (Wire ID = 1280316 )	Color	Default
	Name	PMD2

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
PMD3 : PMD3 (Wire ID = 1280366 )	Color	Default
	Name	PMD3

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
PMD4 : PMD4 (Wire ID = 1280416 )	Color	Default
	Name	PMD4

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
PMD5 : PMD5 (Wire ID = 1280466 )	Color	Default
	Name	PMD5

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
PMD6 : PMD6 (Wire ID = 1280516 )	Color	Default
	Name	PMD6

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
PMD7 : PMD7 (Wire ID = 1280566 )	Color	Default
	Name	PMD7

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
PMCS1 : PMCS1 (Wire ID = 1280616 )	Color	Default
	Name	PMCS1

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
PMCS2 : PMCS2 (Wire ID = 1280631 )	Color	Default
	Name	PMCS2

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
PMWR : PMWR (Wire ID = 1280646 )	Color	Default
	Name	PMWR

Object	Property Name	Property Value
PMRD : PMRD (Wire ID = 1280661 )	Color	Default
	Name	PMRD

Object	Property Name	Property Value
PMBE : PMBE (Wire ID = 1280676 )	Color	Default
	Name	PMBE

Object	Property Name	Property Value
PMP_GPIO : PMP_GPIO (Wire ID = 1280691 )	Color	Default
	Name	PMP_GPIO

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1290585 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1290587 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N1291882 : N1291882 (Wire ID = 1291882 )	Color	Default
	Name	N1291882

Object	Property Name	Property Value
N1291882 : N1291882 (Wire ID = 1291886 )	Color	Default
	Name	N1291882

Object	Property Name	Property Value
N1291882 : N1291882 (Wire ID = 1291888 )	Color	Default
	Name	N1291882

Object	Property Name	Property Value
N1291894 : N1291894 (Wire ID = 1291894 )	Color	Default
	Name	N1291894

Object	Property Name	Property Value
N1291894 : N1291894 (Wire ID = 1291898 )	Color	Default
	Name	N1291894

Object	Property Name	Property Value
N1291894 : N1291894 (Wire ID = 1291900 )	Color	Default
	Name	N1291894

Object	Property Name	Property Value
DVDD_3V3 : DVDD_3V3 (Wire ID = 1374133 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : DVDD_3V3 (Wire ID = 1374174 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1402376 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1402378 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N1403399 : N1403399 (Wire ID = 1403399 )	Color	Default
	Name	N1403399

Object	Property Name	Property Value
AVDD_3V3 : AVDD_3V3 (Wire ID = 1439339 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : AVDD_3V3 (Wire ID = 1439341 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : AVDD_3V3 (Wire ID = 1439346 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : AVDD_3V3 (Wire ID = 1439348 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
12V : 12V (Wire ID = 1439379 )	Color	Default
	Name	12V

Object	Property Name	Property Value
12V : 12V (Wire ID = 1439381 )	Color	Default
	Name	12V

Object	Property Name	Property Value
12V : 12V (Wire ID = 1439386 )	Color	Default
	Name	12V

Object	Property Name	Property Value
12V : 12V (Wire ID = 1439388 )	Color	Default
	Name	12V

Object	Property Name	Property Value
12V : 12V (Wire ID = 1439395 )	Color	Default
	Name	12V

Object	Property Name	Property Value
12V : 12V (Wire ID = 1439397 )	Color	Default
	Name	12V

Object	Property Name	Property Value
12V : 12V (Wire ID = 1439408 )	Color	Default
	Name	12V

Object	Property Name	Property Value
12V : 12V (Wire ID = 1439410 )	Color	Default
	Name	12V

Object	Property Name	Property Value
DVDD_5V0 : DVDD_5V0 (Wire ID = 1445197 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1445218 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DVDD_5V0 : DVDD_5V0 (Wire ID = 1445457 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1445478 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1457780 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1457782 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
SERVO3 : SERVO3 (Wire ID = 1458906 )	Color	Default
	Name	SERVO3

Object	Property Name	Property Value
N1460045 : N1460045 (Wire ID = 1460045 )	Color	Default
	Name	N1460045

Object	Property Name	Property Value
USB_UART_5V0 : USB_UART_5V0 (Wire ID = 146005)	Color	Default
	Name	USB_UART_5V0

Object	Property Name	Property Value
USB_UART_5V0 : USB_UART_5V0 (Wire ID = 146031)	Color	Default
	Name	USB_UART_5V0

Object	Property Name	Property Value
USB_UART_5V0 : USB_UART_5V0 (Wire ID = 146031)	Color	Default
	Name	USB_UART_5V0

Object	Property Name	Property Value
USB_UART_5V0 : USB_UART_5V0 (Wire ID = 146032)	Color	Default
	Name	USB_UART_5V0

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1460662 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1460666 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1460668 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1460785 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1460787 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
USB_UART_5V0 : USB_UART_5V0 (Wire ID = 146105)	Color	Default
	Name	USB_UART_5V0

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1461855 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1461859 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1461863 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1461873 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : DGND (Wire ID = 1461877 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N1462007 : N1462007 (Wire ID = 1462007 )	Color	Default
	Name	N1462007

Object	Property Name	Property Value
USB_NATIVE_5V0 : USB_NATIVE_5V0 (Wire ID = 1462008 )	Color	Default
	Name	USB_NATIVE_5V0

Object	Property Name	Property Value
USB_NATIVE_5V0 : USB_NATIVE_5V0 (Wire ID = 1462009 )	Color	Default
	Name	USB_NATIVE_5V0

Object	Property Name	Property Value
USB_NATIVE_5V0 : USB_NATIVE_5V0 (Wire ID = 1462010 )	Color	Default
	Name	USB_NATIVE_5V0

Object	Property Name	Property Value
USB_NATIVE_5V0 : USB_NATIVE_5V0 (Wire ID = 1462011 )	Color	Default
	Name	USB_NATIVE_5V0

Object	Property Name	Property Value
USB_NATIVE_5V0 : USB_NATIVE_5V0 (Wire ID = 1462012 )	Color	Default
	Name	USB_NATIVE_5V0

Object	Property Name	Property Value
USB_NATIVE_5V0 : USB_NATIVE_5V0 (Wire ID = 1462013 )	Color	Default
	Name	USB_NATIVE_5V0

Object	Property Name	Property Value
USB_NATIVE_5V0 : USB_NATIVE_5V0 (Wire ID = 1462014 )	Color	Default
	Name	USB_NATIVE_5V0

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DVDD_5V0	Name	DVDD_5V0
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DVDD_5V0	Name	DVDD_5V0
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DVDD_5V0	Name	DVDD_5V0
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
USB_NATIVE_5V0	Name	USB_NATIVE_5V0
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
USB_UART_5V0	Name	USB_UART_5V0
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
USB_UART_5V0	Name	USB_UART_5V0
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
USB_NATIVE_5V0	Name	USB_NATIVE_5V0
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
AVDD_3V3	Name	AVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
12V	Name	12V
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
TitleBlockIntellitrol : TitleBlockIntellitrol	Schematic Page Count	1
	Schematic Page Number	1
	Page Number	1
	Page Count	21
	Path Name	TitleBlockIntellitrol
	Schematic Path	/
	ID	8877
	Doc	
	RevCode	0B
	Cage Code	
	Title	TOP
	OrgName	Jean-Francois Bilodeau, B.E.Eng
	OrgAddr1	CPI/CEP #6022173
	OrgAddr2	925 Chemin ste-foy apt4, QC, CANADA
	OrgAddr3	
	OrgAddr4	
	Name	TitleBlockIntellitrol
	Design Name	DSPEAK-V1_00-0B
	Design File Name	C:\USERS\JEANF\DESKTOP\GIT\DSPEAK\HARDWA
	Design Create Date	Friday, November 13, 2020
	Design Modify Date	Thursday, March 25, 2021
	Design Create Time	18:59:24
	Design Modify Time	19:51:15
	Schematic Name	TOP schematic
	Schematic Create Date	Sunday, November 15, 2020
	Schematic Modify Date	Thursday, March 25, 2021
	Schematic Create Time	07:46:58
	Schematic Modify Time	19:51:16
	Page Size	Custom
	Page Create Date	Friday, November 13, 2020
	Page Modify Date	Thursday, March 25, 2021
	Page Create Time	18:59:24
	Page Modify Time	18:37:24
	Color	Default
	Source Library	C:\USERS\JEANF\GOOGLE DRIVE\ORCAD16LIB\PIECE\PART.OLB
	Source Symbol	TitleBlockIntellitrol
	Page Name	TOP

Object	Property Name	Property Value
INS1190553 : U1	PCB Footprint	sot23-6
	Name	INS1190553
	ID	7146
	Reference	U1
	Designator	
	Part Reference	U1
	Value	USBLC6-2
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Digi-Key PN	497-5235-1-ND
	digikey_id	{distributorPn:497-5235-1-ND,mfr:STMicroelectronics,mpn:USBLC6-2SC6,ul:
	Description	TVS DIODE 5.25V 17V SOT23-6
	Distributor PN	497-5235-1-ND
	Distributor	Digi-Key
	Manufacturer PN	USBLC6-2SC6
	Manufacturer	STMicroelectronics

Object	Property Name	Property Value
IO1/1 : U1/IO1/1	Name	IO1/1
	Number	1
	Swap Id	-1
	Type	Bidirectional
	Net Name	USB_NATIVE_D-
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
GND : U1/GND	Name	GND
	Number	2
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
IO2/1 : U1/IO2/1	Name	IO2/1
	Number	3
	Swap Id	-1
	Type	Bidirectional
	Net Name	USB_NATIVE_D+
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
IO2/2 : U1/IO2/2	Name	IO2/2
	Number	4
	Swap Id	-1
	Type	Bidirectional
	Net Name	USB_NATIVE_D+_MCU
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
VBUS : U1/VBUS	Name	VBUS
	Number	5
	Swap Id	-1
	Type	Power
	Net Name	USB_NATIVE_5V0
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
IO1/2 : U1/IO1/2	Name	IO1/2
	Number	6
	Swap Id	-1
	Type	Bidirectional
	Net Name	USB_NATIVE_D-_MCU
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
P1 : P2	Name	P1
	ID	357
	Reference	P2
	Designator	
	Part Reference	P2
	Value	MCU Power / OSC / SOSC
	Primitive	DEFAULT
	Implementation Type	Schematic View
	Implementation	MCU
	Implementation Path	
	PCB Footprint	

Object	Property Name	Property Value
USB_VBUS : P2/USB_VBUS	Name	USB_VBUS
	Number	
	Swap Id	-1
	Type	Input
	Net Name	USB_NATIVE_5V0
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
ICSPDAT : P2/ICSPDAT	Name	ICSPDAT
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	N841434
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
ICSPCLK : P2/ICSPCLK	Name	ICSPCLK
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	N841452
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
#MCLR : P2/#MCLR	Name	#MCLR
	Number	
	Swap Id	-1
	Type	Input
	Net Name	N841430
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
INS838925 : J16	PCB Footprint	SJ-352X-SMT
	Name	INS838925
	ID	1948
	Reference	J16
	Designator	
	Part Reference	J16
	Value	SJ-352X-SMT
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:CP-3523SJCT-ND,mfr:CUI Devices,mpr:SJ-3523-SMT-TR}
	Digi-Key PN	CP-3523SJCT-ND
	Description	CONN JACK STEREO 3.5MM SMD R/A
	Manufacturer PN	SJ-3523-SMT-TR
	Manufacturer	CUI Devices
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : J16/1	Name	1
	Number	1
	Swap Id	-1
	Type	Power
	Net Name	N839643
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : J16/2	Name	2
	Number	2
	Swap Id	-1
	Type	Input
	Net Name	N839673
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
3 : J16/3	Name	3
	Number	3
	Swap Id	-1
	Type	Input
	Net Name	N839661
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
4 : J16/4	Name	4
	Number	4
	Swap Id	-1
	Type	Input
	Net Name	
	Order	3
	Is No Connect	True

Object	Property Name	Property Value
MT1 : J16/MT1	Name	MT1
	Number	5
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	4
	Is No Connect	True

Object	Property Name	Property Value
MT2 : J16/MT2	Name	MT2
	Number	6
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	5
	Is No Connect	True

Object	Property Name	Property Value
INS1275485 : D3	Name	INS1275485
	ID	7817
	Reference	D3
	Designator	
	Part Reference	D3
	Value	TVS 3V3 QL
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:ESD8104MUTAGOSCT-ND,mfr:ON Semiconductor,mpr:ESD8104MUTAGOSCT-ND}
	Digi-Key PN	ESD8104MUTAGOSCT-ND
	Description	TVS DIODE 3.3V 11.4V 10UDFN
	Manufacturer PN	ESD8104MUTAG
	Manufacturer	ON Semiconductor
	PCB Footprint	UDFN-10
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
C1 : D3/C1	Name	C1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	PMA8
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
C2 : D3/C2	Name	C2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	PMA9
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
GND : D3/GND	Name	GND
	Number	3
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
C3 : D3/C3	Name	C3
	Number	4
	Swap Id	-1
	Type	Passive
	Net Name	PMA10
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
C4 : D3/C4	Name	C4
	Number	5
	Swap Id	-1
	Type	Passive
	Net Name	PMA11
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
C4-2 : D3/C4-2	Name	C4-2
	Number	6
	Swap Id	-1
	Type	Passive
	Net Name	PMA11
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
C3-2 : D3/C3-2	Name	C3-2
	Number	7
	Swap Id	-1
	Type	Passive
	Net Name	PMA10
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
C1-2 : D3/C1-2	Name	C1-2
	Number	9
	Swap Id	-1
	Type	Passive
	Net Name	PMA8
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
C2-2 : D3/C2-2	Name	C2-2
	Number	8
	Swap Id	-1
	Type	Passive
	Net Name	PMA9
	Order	8
	Is No Connect	False

Object	Property Name	Property Value
INS1460274 : C164	Name	INS1460274
	ID	8945
	Reference	C164
	Designator	
	Part Reference	C164
	Value	1nF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:478-1215-1-ND,mfr:AVX Corporation,mpn:06035C102KAT2A,uln:478-1215-1-ND}
	Digi-Key PN	478-1215-1-ND
	Description	CAP CER 1000PF 50V X7R 0603
	Manufacturer PN	06035C102KAT2A
	Manufacturer	AVX Corporation
	PCB Footprint	0603_cap_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : C164/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	USB_UART_5V0
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : C164/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1190673 : U2	PCB Footprint	sot23-6
	Name	INS1190673
	ID	7155
	Reference	U2
	Designator	
	Part Reference	U2
	Value	USBLC6-2
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Digi-Key PN	497-5235-1-ND
	digikey_id	{distributorPn:497-5235-1-ND,mfr:STMicroelectronics,npn:USBLC6-2SC6,ul:}
	Description	TVS DIODE 5.25V 17V SOT23-6
	Distributor PN	497-5235-1-ND
	Distributor	Digi-Key
	Manufacturer PN	USBLC6-2SC6
	Manufacturer	STMicroelectronics

Object	Property Name	Property Value
IO1/1 : U2/IO1/1	Name	IO1/1
	Number	1
	Swap Id	-1
	Type	Bidirectional
	Net Name	USB_UART_D-
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
GND : U2/GND	Name	GND
	Number	2
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
IO2/1 : U2/IO2/1	Name	IO2/1
	Number	3
	Swap Id	-1
	Type	Bidirectional
	Net Name	USB_UART_D+
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
IO2/2 : U2/IO2/2	Name	IO2/2
	Number	4
	Swap Id	-1
	Type	Bidirectional
	Net Name	USB_UART_D+_BRIDGE
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
VBUS : U2/VBUS	Name	VBUS
	Number	5
	Swap Id	-1
	Type	Power
	Net Name	USB_UART_5V0
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
IO1/2 : U2/IO1/2	Name	IO1/2
	Number	6
	Swap Id	-1
	Type	Bidirectional
	Net Name	USB_UART_D_BRIDGE
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
INS1276471 : D6	Name	INS1276471
	ID	7847
	Reference	D6
	Designator	
	Part Reference	D6
	Value	TVS 3V3 QL
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:ESD8104MUTAGOSCT-ND,mfr:ON Semiconductor,mpr:ESD8104MUTAGOSCT-ND}
	Digi-Key PN	ESD8104MUTAGOSCT-ND
	Description	TVS DIODE 3.3V 11.4V 10UDFN
	Manufacturer PN	ESD8104MUTAG
	Manufacturer	ON Semiconductor
	PCB Footprint	UDFN-10
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
C1 : D6/C1	Name	C1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	PMD4
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
C2 : D6/C2	Name	C2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	PMD5
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
GND : D6/GND	Name	GND
	Number	3
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
C3 : D6/C3	Name	C3
	Number	4
	Swap Id	-1
	Type	Passive
	Net Name	PMD6
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
C4 : D6/C4	Name	C4
	Number	5
	Swap Id	-1
	Type	Passive
	Net Name	PMD7
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
C4-2 : D6/C4-2	Name	C4-2
	Number	6
	Swap Id	-1
	Type	Passive
	Net Name	PMD7
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
C3-2 : D6/C3-2	Name	C3-2
	Number	7
	Swap Id	-1
	Type	Passive
	Net Name	PMD6
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
C1-2 : D6/C1-2	Name	C1-2
	Number	9
	Swap Id	-1
	Type	Passive
	Net Name	PMD4
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
C2-2 : D6/C2-2	Name	C2-2
	Number	8
	Swap Id	-1
	Type	Passive
	Net Name	PMD5
	Order	8
	Is No Connect	False

Object	Property Name	Property Value
INS1024036 : J20	PCB Footprint	small_header3p100
	Name	INS1024036
	ID	3889
	Reference	J20
	Designator	
	Part Reference	J20
	Value	header3p100
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Manufacturer	Sullins Connector Solutions
	Manufacturer PN	PREC003SAAN-RC
	Description	CONN HEADER VERT 3POS 2.54MM
	Digi-Key PN	S1012EC-03-ND
	digikey_id	{distributorPn:S1012EC-03-ND,mfr:Sullins Connector Solutions,mpn:PREC003SAAN-RC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : J20/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	SERVO1
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : J20/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_5V0
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
3 : J20/3	Name	3
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
INS969018 : J25	PCB Footprint	small_header6p100
	Name	INS969018
	ID	2640
	Reference	J25
	Designator	
	Part Reference	J25
	Value	header6p100
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Manufacturer	Sullins Connector Solutions
	Manufacturer PN	PREC006SAAN-RC
	Description	CONN HEADER VERT 6POS 2.54MM
	Digi-Key PN	S1012EC-06-ND
	digikey_id	{distributorPn:S1012EC-06-ND,mfr:Sullins Connector Solutions,mpn:PREC006SAAN-RC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : J25/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DRV2_OUTB
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : J25/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DRV2_OUTA
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
3 : J25/3	Name	3
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
4 : J25/4	Name	4
	Number	4
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_5V0
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
5 : J25/5	Name	5
	Number	5
	Swap Id	-1
	Type	Passive
	Net Name	QEA2_IN
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
6 : J25/6	Name	6
	Number	6
	Swap Id	-1
	Type	Passive
	Net Name	QEB2_IN
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
INS1024070 : J21	PCB Footprint	small_header3p100
	Name	INS1024070
	ID	3893
	Reference	J21
	Designator	
	Part Reference	J21
	Value	header3p100
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Manufacturer	Sullins Connector Solutions
	Manufacturer PN	PREC003SAAN-RC
	Description	CONN HEADER VERT 3POS 2.54MM
	Digi-Key PN	S1012EC-03-ND
	digikey_id	{distributorPn:S1012EC-03-ND,mfr:Sullins Connector Solutions,mpn:PREC003SAAN-RC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : J21/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	SERVO2
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : J21/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_5V0
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
3 : J21/3	Name	3
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
INS1024104 : J22	PCB Footprint	small_header3p100
	Name	INS1024104
	ID	3897
	Reference	J22
	Designator	
	Part Reference	J22
	Value	header3p100
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Manufacturer	Sullins Connector Solutions
	Manufacturer PN	PREC003SAAN-RC
	Description	CONN HEADER VERT 3POS 2.54MM
	Digi-Key PN	S1012EC-03-ND
	digikey_id	{distributorPn:S1012EC-03-ND,mfr:Sullins Connector Solutions,mpn:PREC003SAAN-RC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : J22/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	SERVO3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : J22/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_5V0
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
3 : J22/3	Name	3
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
INS838758 : J17	PCB Footprint	SJ-352X-SMT
	Name	INS838758
	ID	1936
	Reference	J17
	Designator	
	Part Reference	J17
	Value	SJ-352X-SMT
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:CP-3523SJCT-ND,mfr:CUI Devices,mpr:SJ-3523-SMT-TR}
	Digi-Key PN	CP-3523SJCT-ND
	Description	CONN JACK STEREO 3.5MM SMD R/A
	Manufacturer PN	SJ-3523-SMT-TR
	Manufacturer	CUI Devices
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : J17/1	Name	1
	Number	1
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : J17/2	Name	2
	Number	2
	Swap Id	-1
	Type	Input
	Net Name	N840050
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
3 : J17/3	Name	3
	Number	3
	Swap Id	-1
	Type	Input
	Net Name	N840038
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
4 : J17/4	Name	4
	Number	4
	Swap Id	-1
	Type	Input
	Net Name	
	Order	3
	Is No Connect	True

Object	Property Name	Property Value
MT1 : J17/MT1	Name	MT1
	Number	5
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	4
	Is No Connect	True

Object	Property Name	Property Value
MT2 : J17/MT2	Name	MT2
	Number	6
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	5
	Is No Connect	True

Object	Property Name	Property Value
P14 : P10	Name	P14
	ID	4442
	Reference	P10
	Designator	
	Part Reference	P10
	Value	ANALOG INPUT -10V
	Primitive	DEFAULT
	Implementation Type	Schematic View
	Implementation	ANALOG INPUT -10V
	Implementation Path	
	PCB Footprint	

Object	Property Name	Property Value
ADCINx : P10/ADCINx	Name	ADCINx
	Number	
	Swap Id	-1
	Type	Output
	Net Name	AIN_AN14
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
VINx+ : P10/VINx+	Name	VINx+
	Number	
	Swap Id	-1
	Type	Input
	Net Name	AN14_V+
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
VINx- : P10/VINx-	Name	VINx-
	Number	
	Swap Id	-1
	Type	Input
	Net Name	AN14_V-
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
INS1457982 : FB2	Name	INS1457982
	ID	8925
	Reference	FB2
	Designator	
	Part Reference	FB2
	Value	BLM18PG121SN1D
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_fb
	digikey_id	{distributorPn:490-1037-1-ND,mfr:Murata Electronics,mpn:BLM18PG121SN1D}
	Digi-Key PN	490-1037-1-ND
	Manufacturer PN	BLM18PG121SN1D
	Manufacturer	Murata Electronics
	Distributor PN	490-1037-1-ND
	Distributor	Digi-Key
	Description	FERRITE BEAD 120 OHM 0603 1LN

Object	Property Name	Property Value
1 : FB2/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N1460045
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : FB2/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	USB_UART_5V0
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1350763 : FID1	Name	INS1350763
	ID	8527
	Reference	FID1
	Designator	
	Part Reference	FID1
	Value	Fiducial
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	fiducial_cir40mil

Object	Property Name	Property Value
FIDx : FID1/FIDx	Name	FIDx
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	0
	Is No Connect	True

Object	Property Name	Property Value
P23 : P13	Name	P23
	ID	5705
	Reference	P13
	Designator	
	Part Reference	P13
	Value	MEMORY
	Primitive	DEFAULT
	Implementation Type	Schematic View
	Implementation	MEMORY
	Implementation Path	
	PCB Footprint	

Object	Property Name	Property Value
SPI_MISO : P13/SPI_MISO	Name	SPI_MISO
	Number	
	Swap Id	-1
	Type	Output
	Net Name	SPI2_MISO
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
FLASH_nCS : P13/FLASH_nCS	Name	FLASH_nCS
	Number	
	Swap Id	-1
	Type	Input
	Net Name	FLASH_nCS
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
SPI_MOSI : P13/SPI_MOSI	Name	SPI_MOSI
	Number	
	Swap Id	-1
	Type	Input
	Net Name	SPI2_MOSI
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
SD_nCS : P13/SD_nCS	Name	SD_nCS
	Number	
	Swap Id	-1
	Type	Input
	Net Name	SD_nCS
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
SPI_SCLK : P13/SPI_SCLK	Name	SPI_SCLK
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	SPI2_SCLK
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
FLASH_nHOLD : P13/FLASH_nHOLD	Name	FLASH_nHOLD
	Number	
	Swap Id	-1
	Type	Input
	Net Name	FLASH_nHOLD
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
FLASH_nWP : P13/FLASH_nWP	Name	FLASH_nWP
	Number	
	Swap Id	-1
	Type	Input
	Net Name	FLASH_nWP
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
SD_nDETECT : P13/SD_nDETECT	Name	SD_nDETECT
	Number	
	Swap Id	-1
	Type	Output
	Net Name	SD_nDETECT
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
P13 : P9	Name	P13
	ID	4358
	Reference	P9
	Designator	
	Part Reference	P9
	Value	ANALOG INPUT -10V
	Primitive	DEFAULT
	Implementation Type	Schematic View
	Implementation	ANALOG INPUT -10V
	Implementation Path	
	PCB Footprint	

Object	Property Name	Property Value
ADCINx : P9/ADCINx	Name	ADCINx
	Number	
	Swap Id	-1
	Type	Output
	Net Name	AIN_AN13
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
VINx+ : P9/VINx+	Name	VINx+
	Number	
	Swap Id	-1
	Type	Input
	Net Name	AN13_V+
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
VINx- : P9/VINx-	Name	VINx-
	Number	
	Swap Id	-1
	Type	Input
	Net Name	AN13_V-
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
P5 : P17	Name	P5
	ID	2303
	Reference	P17
	Designator	
	Part Reference	P17
	Value	Motor driver
	Primitive	DEFAULT
	Implementation Type	Schematic View
	Implementation	Motor driver
	Implementation Path	
	PCB Footprint	

Object	Property Name	Property Value
QEA_OUT : P17/QEA_OUT	Name	QEA_OUT
	Number	
	Swap Id	-1
	Type	Output
	Net Name	QEA1
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
QEB_OUT : P17/QEB_OUT	Name	QEB_OUT
	Number	
	Swap Id	-1
	Type	Output
	Net Name	QEB1
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
VM : P17/VM	Name	VM
	Number	
	Swap Id	-1
	Type	Input
	Net Name	VM
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
PWMxL : P17/PWMxL	Name	PWMxL
	Number	
	Swap Id	-1
	Type	Input
	Net Name	PWM1L
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
nFAULTx : P17/nFAULTx	Name	nFAULTx
	Number	
	Swap Id	-1
	Type	Output
	Net Name	nFAULT1
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
PWMxH : P17/PWMxH	Name	PWMxH
	Number	
	Swap Id	-1
	Type	Input
	Net Name	PWM1H
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
OUTA : P17/OUTA	Name	OUTA
	Number	
	Swap Id	-1
	Type	Output
	Net Name	DRV1_OUTA
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
OUTB : P17/OUTB	Name	OUTB
	Number	
	Swap Id	-1
	Type	Output
	Net Name	DRV1_OUTB
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
QEA_IN : P17/QEA_IN	Name	QEA_IN
	Number	
	Swap Id	-1
	Type	Input
	Net Name	QEA1_IN
	Order	8
	Is No Connect	False

Object	Property Name	Property Value
QEB_IN : P17/QEB_IN	Name	QEB_IN
	Number	
	Swap Id	-1
	Type	Input
	Net Name	QEB1_IN
	Order	9
	Is No Connect	False

Object	Property Name	Property Value
INS1460244 : C163	Name	INS1460244
	ID	8942
	Reference	C163
	Designator	
	Part Reference	C163
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Digi-Key PN	1276-1000-1-ND
	Description	CAP CER 0.1uF 50V X7R 0603
	Manufacturer PN	CL10B104KB8NNNC
	Manufacturer	Samsung Electro-Mechanics
	PCB Footprint	0603_cap_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : C163/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	USB_UART_5V0
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : C163/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS839040 : X1	PCB Footprint	CMB-6544PF
	Name	INS839040
	ID	1958
	Reference	X1
	Designator	
	Part Reference	X1
	Value	CMA-4544PF-W
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Manufacturer	CUI Devices
	Manufacturer PN	CMA-4544PF-W
	Description	MICROPHONE COND ANALOG OMNI
	Digi-Key PN	102-1721-ND
	digikey_id	{distributorPn:102-1721-ND,mfr:CUI Devices,mpn:CMA-4544PF-W,ul:(uid:336
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : X1/1	Name	1
	Number	1
	Swap Id	-1
	Type	Output
	Net Name	N840869
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : X1/2	Name	2
	Number	2
	Swap Id	-1
	Type	Output
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1276765 : D7	Name	INS1276765
	ID	7857
	Reference	D7
	Designator	
	Part Reference	D7
	Value	TVS 3V3 QL
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:ESD8104MUTAGOSCT-ND,mfr:ON Semiconductor,mprn:ESD8104MUTAGOSCT-ND}
	Digi-Key PN	ESD8104MUTAGOSCT-ND
	Description	TVS DIODE 3.3V 11.4V 10UDFN
	Manufacturer PN	ESD8104MUTAG
	Manufacturer	ON Semiconductor
	PCB Footprint	UDFN-10
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
C1 : D7/C1	Name	C1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	PMCS1
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
C2 : D7/C2	Name	C2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	PMCS2
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
GND : D7/GND	Name	GND
	Number	3
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
C3 : D7/C3	Name	C3
	Number	4
	Swap Id	-1
	Type	Passive
	Net Name	PMWRL
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
C4 : D7/C4	Name	C4
	Number	5
	Swap Id	-1
	Type	Passive
	Net Name	PMRD
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
C4-2 : D7/C4-2	Name	C4-2
	Number	6
	Swap Id	-1
	Type	Passive
	Net Name	PMRD
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
C3-2 : D7/C3-2	Name	C3-2
	Number	7
	Swap Id	-1
	Type	Passive
	Net Name	PMWR
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
C1-2 : D7/C1-2	Name	C1-2
	Number	9
	Swap Id	-1
	Type	Passive
	Net Name	PMCS1
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
C2-2 : D7/C2-2	Name	C2-2
	Number	8
	Swap Id	-1
	Type	Passive
	Net Name	PMCS2
	Order	8
	Is No Connect	False

Object	Property Name	Property Value
INS1350783 : FID2	Name	INS1350783
	ID	8529
	Reference	FID2
	Designator	
	Part Reference	FID2
	Value	Fiducial
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	fiducial_cir40mil

Object	Property Name	Property Value
FIDx : FID2/FIDx	Name	FIDx
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	0
	Is No Connect	True

Object	Property Name	Property Value
P26 : P19	Name	P26
	ID	6502
	Reference	P19
	Designator	
	Part Reference	P19
	Value	USER I/O
	Primitive	DEFAULT
	Implementation Type	Schematic View
	Implementation	USER I/O
	Implementation Path	
	PCB Footprint	

Object	Property Name	Property Value
LED_1 : P19/LED_1	Name	LED_1
	Number	
	Swap Id	-1
	Type	Input
	Net Name	LED_1
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
LED_3 : P19/LED_3	Name	LED_3
	Number	
	Swap Id	-1
	Type	Input
	Net Name	LED_3
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
LED_2 : P19/LED_2	Name	LED_2
	Number	
	Swap Id	-1
	Type	Input
	Net Name	LED_2
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
AIN_AN2_POT : P19/AIN_AN2_POT	Name	AIN_AN2_POT
	Number	
	Swap Id	-1
	Type	Output
	Net Name	AIN_AN2_POT
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
ROT_ENC_A : P19/ROT_ENC_A	Name	ROT_ENC_A
	Number	
	Swap Id	-1
	Type	Output
	Net Name	ROT_ENC_A
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
ROT_ENC_B : P19/ROT_ENC_B	Name	ROT_ENC_B
	Number	
	Swap Id	-1
	Type	Output
	Net Name	ROT_ENC_B
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
ROT_ENC_SW : P19/ROT_ENC_SW	Name	ROT_ENC_SW
	Number	
	Swap Id	-1
	Type	Output
	Net Name	ROT_ENC_SW
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
RGB_R : P19/RGB_R	Name	RGB_R
	Number	
	Swap Id	-1
	Type	Input
	Net Name	SWPWM_RGB_R
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
RGB_B : P19/RGB_B	Name	RGB_B
	Number	
	Swap Id	-1
	Type	Input
	Net Name	SWPWM_RGB_B
	Order	8
	Is No Connect	False

Object	Property Name	Property Value
RGB_G : P19/RGB_G	Name	RGB_G
	Number	
	Swap Id	-1
	Type	Input
	Net Name	SWPWM_RGB_G
	Order	9
	Is No Connect	False

Object	Property Name	Property Value
LED_4 : P19/LED_4	Name	LED_4
	Number	
	Swap Id	-1
	Type	Input
	Net Name	LED_4
	Order	10
	Is No Connect	False

Object	Property Name	Property Value
BTN_4 : P19/BTN_4	Name	BTN_4
	Number	
	Swap Id	-1
	Type	Output
	Net Name	BTN_4
	Order	11
	Is No Connect	False

Object	Property Name	Property Value
BTN_2 : P19/BTN_2	Name	BTN_2
	Number	
	Swap Id	-1
	Type	Output
	Net Name	BTN_2
	Order	12
	Is No Connect	False

Object	Property Name	Property Value
BTN_3 : P19/BTN_3	Name	BTN_3
	Number	
	Swap Id	-1
	Type	Output
	Net Name	BTN_3
	Order	13
	Is No Connect	False

Object	Property Name	Property Value
BTN_1 : P19/BTN_1	Name	BTN_1
	Number	
	Swap Id	-1
	Type	Output
	Net Name	BTN_1
	Order	14
	Is No Connect	False

Object	Property Name	Property Value
BUZZ : P19/BUZZ	Name	BUZZ
	Number	
	Swap Id	-1
	Type	Input
	Net Name	BUZZER
	Order	15
	Is No Connect	False

Object	Property Name	Property Value
INS1275831 : D4	Name	INS1275831
	ID	7827
	Reference	D4
	Designator	
	Part Reference	D4
	Value	TVS 3V3 QL
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:ESD8104MUTAGOSCT-ND,mfr:ON Semiconductor,mpn:ESD8104MUTAGOSCT-ND}
	Digi-Key PN	ESD8104MUTAGOSCT-ND
	Description	TVS DIODE 3.3V 11.4V 10UDFN
	Manufacturer PN	ESD8104MUTAG
	Manufacturer	ON Semiconductor
	PCB Footprint	UDFN-10
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
C1 : D4/C1	Name	C1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	PMA12
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
C2 : D4/C2	Name	C2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	PMA13
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
GND : D4/GND	Name	GND
	Number	3
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
C3 : D4/C3	Name	C3
	Number	4
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	3
	Is No Connect	True

Object	Property Name	Property Value
C4 : D4/C4	Name	C4
	Number	5
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	4
	Is No Connect	True

Object	Property Name	Property Value
C4-2 : D4/C4-2	Name	C4-2
	Number	6
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	5
	Is No Connect	True

Object	Property Name	Property Value
C3-2 : D4/C3-2	Name	C3-2
	Number	7
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	6
	Is No Connect	True

Object	Property Name	Property Value
C1-2 : D4/C1-2	Name	C1-2
	Number	9
	Swap Id	-1
	Type	Passive
	Net Name	PMA12
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
C2-2 : D4/C2-2	Name	C2-2
	Number	8
	Swap Id	-1
	Type	Passive
	Net Name	PMA13
	Order	8
	Is No Connect	False

Object	Property Name	Property Value
INS1029693 : J3	PCB Footprint	usb-b
	Name	INS1029693
	ID	3947
	Reference	J3
	Designator	
	Part Reference	J3
	Value	USB-B
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Digi-Key PN	455-2880-1-ND
	digikey_id	{distributorPn:455-2880-1-ND,mfr:JST Sales America Inc.,mpn:UB-MC5BR3-S-SD204-4S-1-TB NMP}
	Description	CONN RCP MICRO USB B 5POS SMD RA
	Distributor PN	455-2880-1-ND
	Distributor	Digi-Key
	Manufacturer PN	UB-MC5BR3-SD204-4S-1-TB NMP
	Manufacturer	JST Sales America Inc.

Object	Property Name	Property Value
V- : J3/V-	Name	V-
	Number	5
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
ID : J3/ID	Name	ID
	Number	4
	Swap Id	-1
	Type	Input
	Net Name	
	Order	1
	Is No Connect	True

Object	Property Name	Property Value
D+ : J3/D+	Name	D+
	Number	3
	Swap Id	-1
	Type	Bidirectional
	Net Name	USB_UART_D+
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
D- : J3/D-	Name	D-
	Number	2
	Swap Id	-1
	Type	Bidirectional
	Net Name	USB_UART_D-
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
V+ : J3/V+	Name	V+
	Number	1
	Swap Id	-1
	Type	Power
	Net Name	N1460045
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
DGND : J3/DGND	Name	DGND
	Number	6
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
DGND : J3/DGND	Name	DGND
	Number	7
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
DGND : J3/DGND	Name	DGND
	Number	8
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
DGND : J3/DGND	Name	DGND
	Number	9
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	8
	Is No Connect	False

Object	Property Name	Property Value
DGND : J3/DGND	Name	DGND
	Number	10
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	9
	Is No Connect	False

Object	Property Name	Property Value
DGND : J3/DGND	Name	DGND
	Number	11
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	10
	Is No Connect	False

Object	Property Name	Property Value
INS841406 : J1	PCB Footprint	small_header5p100
	Name	INS841406
	ID	2017
	Reference	J1
	Designator	
	Part Reference	J1
	Value	header5p100
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Manufacturer	Sullins Connector Solutions
	Manufacturer PN	PREC005SAAN-RC
	Description	CONN HEADER VERT 5POS 2.54MM
	Digi-Key PN	S1012EC-05-ND
	digikey_id	{distributorPn:S1012EC-05-ND,mfr:Sullins Connector Solutions,mpn:PREC005SAAN-RC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : J1/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N841430
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : J1/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
3 : J1/3	Name	3
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
4 : J1/4	Name	4
	Number	4
	Swap Id	-1
	Type	Passive
	Net Name	N841434
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
5 : J1/5	Name	5
	Number	5
	Swap Id	-1
	Type	Passive
	Net Name	N841452
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
INS968870 : J24	PCB Footprint	small_header6p100
	Name	INS968870
	ID	2630
	Reference	J24
	Designator	
	Part Reference	J24
	Value	header6p100
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Manufacturer	Sullins Connector Solutions
	Manufacturer PN	PREC006SAAN-RC
	Description	CONN HEADER VERT 6POS 2.54MM
	Digi-Key PN	S1012EC-06-ND
	digikey_id	{distributorPn:S1012EC-06-ND,mfr:Sullins Connector Solutions,mpn:PREC006SAAN-RC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : J24/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DRV1_OUTB
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : J24/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DRV1_OUTA
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
3 : J24/3	Name	3
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
4 : J24/4	Name	4
	Number	4
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_5V0
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
5 : J24/5	Name	5
	Number	5
	Swap Id	-1
	Type	Passive
	Net Name	QEA1_IN
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
6 : J24/6	Name	6
	Number	6
	Swap Id	-1
	Type	Passive
	Net Name	QEB1_IN
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
INS1401988 : J30	Name	INS1401988
	ID	8760
	Reference	J30
	Designator	
	Part Reference	J30
	Value	tb2pos5mm
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	termblock_5mm_2pos
	Manufacturer	CUI Devices
	Manufacturer PN	TB002-500-02BE
	Description	TERMINAL BLOCK, SCREW TYPE, 5.00
	Digi-Key PN	102-6145-ND
	digikey_id	{distributorPn:102-6145-ND,mfr:CUI Devices,mpn:TB002-500-02BE}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : J30/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N1403399
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : J30/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
P25 : P14	Name	P25
	ID	5789
	Reference	P14
	Designator	
	Part Reference	P14
	Value	MikroBus
	Primitive	DEFAULT
	Implementation Type	Schematic View
	Implementation	MikroBus
	Implementation Path	
	PCB Footprint	

Object	Property Name	Property Value
MKB1_INT : P14/MKB1_INT	Name	MKB1_INT
	Number	
	Swap Id	-1
	Type	Output
	Net Name	MKB1_INT
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
SDA : P14/SDA	Name	SDA
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	ASDA1
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
SPI_MISO : P14/SPI_MISO	Name	SPI_MISO
	Number	
	Swap Id	-1
	Type	Output
	Net Name	SPI4_MISO
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
MKB2_PWM : P14/MKB2_PWM	Name	MKB2_PWM
	Number	
	Swap Id	-1
	Type	Input
	Net Name	MKB2_PWM
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
MKB1_PWM : P14/MKB1_PWM	Name	MKB1_PWM
	Number	
	Swap Id	-1
	Type	Input
	Net Name	MKB1_PWM
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
SPI莫斯I : P14/SPI莫斯I	Name	SPI_MOSI
	Number	
	Swap Id	-1
	Type	Input
	Net Name	SPI4_MOSI
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
MKB2_RST : P14/MKB2_RST	Name	MKB2_RST
	Number	
	Swap Id	-1
	Type	Input
	Net Name	MKB2_RST
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
MKB1_AIN : P14/MKB1_AIN	Name	MKB1_AIN
	Number	
	Swap Id	-1
	Type	Output
	Net Name	MKB1_AIN
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
UART_RX : P14/UART_RX	Name	UART_RX
	Number	
	Swap Id	-1
	Type	Output
	Net Name	UART2_RX
	Order	8
	Is No Connect	False

Object	Property Name	Property Value
SPI_SCLK : P14/SPI_SCLK	Name	SPI_SCLK
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	SPI4_SCLK
	Order	9
	Is No Connect	False

Object	Property Name	Property Value
SCL : P14/SCL	Name	SCL
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	ASCL1
	Order	10
	Is No Connect	False

Object	Property Name	Property Value
MKB1_RST : P14/MKB1_RST	Name	MKB1_RST
	Number	
	Swap Id	-1
	Type	Input
	Net Name	MKB1_RST
	Order	11
	Is No Connect	False

Object	Property Name	Property Value
MKB2_nCS : P14/MKB2_nCS	Name	MKB2_nCS
	Number	
	Swap Id	-1
	Type	Input
	Net Name	MKB2_nCS
	Order	12
	Is No Connect	False

Object	Property Name	Property Value
MKB2_AIN : P14/MKB2_AIN	Name	MKB2_AIN
	Number	
	Swap Id	-1
	Type	Output
	Net Name	MKB2_AIN
	Order	13
	Is No Connect	False

Object	Property Name	Property Value
MKB1_nCS : P14/MKB1_nCS	Name	MKB1_nCS
	Number	
	Swap Id	-1
	Type	Input
	Net Name	MKB1_nCS
	Order	14
	Is No Connect	False

Object	Property Name	Property Value
UART_TX : P14/UART_TX	Name	UART_TX
	Number	
	Swap Id	-1
	Type	Input
	Net Name	UART2_TX
	Order	15
	Is No Connect	False

Object	Property Name	Property Value
MKB2_INT : P14/MKB2_INT	Name	MKB2_INT
	Number	
	Swap Id	-1
	Type	Output
	Net Name	MKB2_INT
	Order	16
	Is No Connect	False

Object	Property Name	Property Value
INS1025591 : J15	PCB Footprint	small_header2p100
	Name	INS1025591
	ID	3909
	Reference	J15
	Designator	
	Part Reference	J15
	Value	header2p100
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Manufacturer	Sullins Connector Solutions
	Manufacturer PN	PREC002SAAN-RC
	Description	CONN HEADER VERT 2POS 2.54MM
	Digi-Key PN	S1012EC-02-ND
	digikey_id	{distributorPn:S1012EC-02-ND,mfr:Sullins Connector Solutions,mpn:PREC002SAAN-RC}

Object	Property Name	Property Value
1 : J15/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	RCDAC2
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : J15/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
P31 : P31	Name	P31
	ID	8226
	Reference	P31
	Designator	
	Part Reference	P31
	Value	POWER SUPPLY
	Primitive	DEFAULT
	Implementation Type	Schematic View
	Implementation	POWER SUPPLY
	Implementation Path	

Object	Property Name	Property Value
POW_IN : P31/POW_IN	Name	POW_IN
	Number	
	Swap Id	-1
	Type	Input
	Net Name	N1403399
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
P4 : P18	Name	P4
	ID	2028
	Reference	P18
	Designator	
	Part Reference	P18
	Value	Motor driver
	Primitive	DEFAULT
	Implementation Type	Schematic View
	Implementation	Motor driver
	Implementation Path	
	PCB Footprint	

Object	Property Name	Property Value
QEA_OUT : P18/QEA_OUT	Name	QEA_OUT
	Number	
	Swap Id	-1
	Type	Output
	Net Name	QEA2
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
QEB_OUT : P18/QEB_OUT	Name	QEB_OUT
	Number	
	Swap Id	-1
	Type	Output
	Net Name	QEB2
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
VM : P18/VM	Name	VM
	Number	
	Swap Id	-1
	Type	Input
	Net Name	VM
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
PWMxL : P18/PWMxL	Name	PWMxL
	Number	
	Swap Id	-1
	Type	Input
	Net Name	PWM2L
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
nFAULTx : P18/nFAULTx	Name	nFAULTx
	Number	
	Swap Id	-1
	Type	Output
	Net Name	nFAULT2
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
PWMxH : P18/PWMxH	Name	PWMxH
	Number	
	Swap Id	-1
	Type	Input
	Net Name	PWM2H
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
OUTA : P18/OUTA	Name	OUTA
	Number	
	Swap Id	-1
	Type	Output
	Net Name	DRV2_OUTA
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
OUTB : P18/OUTB	Name	OUTB
	Number	
	Swap Id	-1
	Type	Output
	Net Name	DRV2_OUTB
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
QEA_IN : P18/QEA_IN	Name	QEA_IN
	Number	
	Swap Id	-1
	Type	Input
	Net Name	QEA2_IN
	Order	8
	Is No Connect	False

Object	Property Name	Property Value
QEB_IN : P18/QEB_IN	Name	QEB_IN
	Number	
	Swap Id	-1
	Type	Input
	Net Name	QEB2_IN
	Order	9
	Is No Connect	False

Object	Property Name	Property Value
INS1435713 : J6	Name	INS1435713
	ID	8835
	Reference	J6
	Designator	
	Part Reference	J6
	Value	molex4p100
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	molex4p100
	Manufacturer	TE Connectivity AMP Connectors
	Manufacturer PN	640454-4
	Description	CONN HEADER VERT 4POS 2.54MM
	Digi-Key PN	A19431-ND
	digikey_id	{distributorPn:A19431-ND,mfr:TE Connectivity AMP Connectors,mpn:640454-4}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : J6/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : J6/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
3 : J6/3	Name	3
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	AN0_V-
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
4 : J6/4	Name	4
	Number	4
	Swap Id	-1
	Type	Passive
	Net Name	AN0_V+
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
INS1435815 : J9	Name	INS1435815
	ID	8850
	Reference	J9
	Designator	
	Part Reference	J9
	Value	molex4p100
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	molex4p100
	Manufacturer	TE Connectivity AMP Connectors
	Manufacturer PN	640454-4
	Description	CONN HEADER VERT 4POS 2.54MM
	Digi-Key PN	A19431-ND
	digikey_id	{distributorPn:A19431-ND,mfr:TE Connectivity AMP Connectors,mpn:640454-4}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : J9/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : J9/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	12V
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
3 : J9/3	Name	3
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	AN13_V-
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
4 : J9/4	Name	4
	Number	4
	Swap Id	-1
	Type	Passive
	Net Name	AN13_V+
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
INS1435747 : J7	Name	INS1435747
	ID	8840
	Reference	J7
	Designator	
	Part Reference	J7
	Value	molex4p100
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	molex4p100
	Manufacturer	TE Connectivity AMP Connectors
	Manufacturer PN	640454-4
	Description	CONN HEADER VERT 4POS 2.54MM
	Digi-Key PN	A19431-ND
	digikey_id	{distributorPn:A19431-ND,mfr:TE Connectivity AMP Connectors,mpn:640454-4}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : J7/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : J7/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
3 : J7/3	Name	3
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	AN1_V-
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
4 : J7/4	Name	4
	Number	4
	Swap Id	-1
	Type	Passive
	Net Name	AN1_V+
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
INS1435849 : J10	Name	INS1435849
	ID	8855
	Reference	J10
	Designator	
	Part Reference	J10
	Value	molex4p100
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	molex4p100
	Manufacturer	TE Connectivity AMP Connectors
	Manufacturer PN	640454-4
	Description	CONN HEADER VERT 4POS 2.54MM
	Digi-Key PN	A19431-ND
	digikey_id	{distributorPn:A19431-ND,mfr:TE Connectivity AMP Connectors,mpn:640454-4}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : J10/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : J10/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	12V
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
3 : J10/3	Name	3
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	AN14_V-
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
4 : J10/4	Name	4
	Number	4
	Swap Id	-1
	Type	Passive
	Net Name	AN14_V+
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
INS1435781 : J8	Name	INS1435781
	ID	8845
	Reference	J8
	Designator	
	Part Reference	J8
	Value	molex4p100
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	molex4p100
	Manufacturer	TE Connectivity AMP Connectors
	Manufacturer PN	640454-4
	Description	CONN HEADER VERT 4POS 2.54MM
	Digi-Key PN	A19431-ND
	digikey_id	{distributorPn:A19431-ND,mfr:TE Connectivity AMP Connectors,mpn:640454-4}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : J8/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : J8/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	12V
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
3 : J8/3	Name	3
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	AN12_V-
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
4 : J8/4	Name	4
	Number	4
	Swap Id	-1
	Type	Passive
	Net Name	AN12_V+
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
INS1435883 : J11	Name	INS1435883
	ID	8860
	Reference	J11
	Designator	
	Part Reference	J11
	Value	molex4p100
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	molex4p100
	Manufacturer	TE Connectivity AMP Connectors
	Manufacturer PN	640454-4
	Description	CONN HEADER VERT 4POS 2.54MM
	Digi-Key PN	A19431-ND
	digikey_id	{distributorPn:A19431-ND,mfr:TE Connectivity AMP Connectors,mpn:640454-4}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : J11/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : J11/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	12V
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
3 : J11/3	Name	3
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	AN15_V-
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
4 : J11/4	Name	4
	Number	4
	Swap Id	-1
	Type	Passive
	Net Name	AN15_V+
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
P3 : P16	Name	P3
	ID	1668
	Reference	P16
	Designator	
	Part Reference	P16
	Value	Audio codec
	Primitive	DEFAULT
	Implementation Type	Schematic View
	Implementation	Audio codec
	Implementation Path	
	PCB Footprint	

Object	Property Name	Property Value
LINEIN_L : P16/LINEIN_L	Name	LINEIN_L
	Number	
	Swap Id	-1
	Type	Input
	Net Name	N996116
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
LINEIN_R : P16/LINEIN_R	Name	LINEIN_R
	Number	
	Swap Id	-1
	Type	Input
	Net Name	N996104
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
SPI3_MOSI : P16/SPI3_MOSI	Name	SPI3_MOSI
	Number	
	Swap Id	-1
	Type	Input
	Net Name	SPI3_MOSI
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
SPI3_nCS : P16/SPI3_nCS	Name	SPI3_nCS
	Number	
	Swap Id	-1
	Type	Input
	Net Name	SPI3_nCS
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
I2S_DIN : P16/I2S_DIN	Name	I2S_DIN
	Number	
	Swap Id	-1
	Type	Input
	Net Name	I2S_DOUT
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
HPOUT_L : P16/HPOUT_L	Name	HPOUT_L
	Number	
	Swap Id	-1
	Type	Output
	Net Name	N839673
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
LINEOUT_L : P16/LINEOUT_L	Name	LINEOUT_L
	Number	
	Swap Id	-1
	Type	Output
	Net Name	N840050
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
HPOUT_R : P16/HPOUT_R	Name	HPOUT_R
	Number	
	Swap Id	-1
	Type	Output
	Net Name	N839661
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
I2S_SCLK : P16/I2S_SCLK	Name	I2S_SCLK
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	I2S_SCLK
	Order	8
	Is No Connect	False

Object	Property Name	Property Value
MIC_IN : P16/MIC_IN	Name	MIC_IN
	Number	
	Swap Id	-1
	Type	Input
	Net Name	N840869
	Order	9
	Is No Connect	False

Object	Property Name	Property Value
LINEOUT_R : P16/LINEOUT_R	Name	LINEOUT_R
	Number	
	Swap Id	-1
	Type	Output
	Net Name	N840038
	Order	10
	Is No Connect	False

Object	Property Name	Property Value
SPI3_SCLK : P16/SPI3_SCLK	Name	SPI3_SCLK
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	SPI3_SCLK
	Order	11
	Is No Connect	False

Object	Property Name	Property Value
I2S_DOUT : P16/I2S_DOUT	Name	I2S_DOUT
	Number	
	Swap Id	-1
	Type	Output
	Net Name	I2S_DIN
	Order	12
	Is No Connect	False

Object	Property Name	Property Value
I2S_COFS : P16/I2S_COFS	Name	I2S_COFS
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	I2S_COFS
	Order	13
	Is No Connect	False

Object	Property Name	Property Value
EXTMIC_IN_L : P16/EXTMIC_IN_L	Name	EXTMIC_IN_L
	Number	
	Swap Id	-1
	Type	Input
	Net Name	N1291882
	Order	14
	Is No Connect	False

Object	Property Name	Property Value
EXTMIC_IN_R : P16/EXTMIC_IN_R	Name	EXTMIC_IN_R
	Number	
	Swap Id	-1
	Type	Input
	Net Name	N1291894
	Order	15
	Is No Connect	False

Object	Property Name	Property Value
HPOUT_GND : P16/HPOUT_GND	Name	HPOUT_GND
	Number	
	Swap Id	-1
	Type	Output
	Net Name	N839643
	Order	16
	Is No Connect	False

Object	Property Name	Property Value
INS1350803 : FID3	Name	INS1350803
	ID	8525
	Reference	FID3
	Designator	
	Part Reference	FID3
	Value	Fiducial
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	fiducial_cir40mil

Object	Property Name	Property Value
FIDx : FID3/FIDx	Name	FIDx
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	0
	Is No Connect	True

Object	Property Name	Property Value
INS1277024 : D8	Name	INS1277024
	ID	7867
	Reference	D8
	Designator	
	Part Reference	D8
	Value	TVS 3V3 QL
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	/distributorPn:ESD8104MUTAGOSCT-ND,mfr:ON Semiconductor,mpn:ESD8104MUTAGOSCT-ND
	Digi-Key PN	ESD8104MUTAGOSCT-ND
	Description	TVS DIODE 3.3V 11.4V 10UDFN
	Manufacturer PN	ESD8104MUTAG
	Manufacturer	ON Semiconductor
	PCB Footprint	UDFN-10
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
C1 : D8/C1	Name	C1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	PMBE
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
C2 : D8/C2	Name	C2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	PMP_GPIO
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
GND : D8/GND	Name	GND
	Number	3
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
C3 : D8/C3	Name	C3
	Number	4
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	3
	Is No Connect	True

Object	Property Name	Property Value
C4 : D8/C4	Name	C4
	Number	5
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	4
	Is No Connect	True

Object	Property Name	Property Value
C4-2 : D8/C4-2	Name	C4-2
	Number	6
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	5
	Is No Connect	True

Object	Property Name	Property Value
C3-2 : D8/C3-2	Name	C3-2
	Number	7
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	6
	Is No Connect	True

Object	Property Name	Property Value
C1-2 : D8/C1-2	Name	C1-2
	Number	9
	Swap Id	-1
	Type	Passive
	Net Name	PMBE
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
C2-2 : D8/C2-2	Name	C2-2
	Number	8
	Swap Id	-1
	Type	Passive
	Net Name	PMP_GPIO
	Order	8
	Is No Connect	False

Object	Property Name	Property Value
P21 : P12	Name	P21
	ID	5637
	Reference	P12
	Designator	
	Part Reference	P12
	Value	RIVERDI FT8XX
	Primitive	DEFAULT
	Implementation Type	Schematic View
	Implementation	RIVERDI FT8XX
	Implementation Path	
	PCB Footprint	

Object	Property Name	Property Value
SPI_MISO : P12/SPI_MISO	Name	SPI_MISO
	Number	
	Swap Id	-1
	Type	Output
	Net Name	SPI1_MISO
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
SPI_MOSI : P12/SPI_MOSI	Name	SPI_MOSI
	Number	
	Swap Id	-1
	Type	Input
	Net Name	SPI1_MOSI
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
SPI_SCLK : P12/SPI_SCLK	Name	SPI_SCLK
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	SPI1_SCLK
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
FT8XX_nPD : P12/FT8XX_nPD	Name	FT8XX_nPD
	Number	
	Swap Id	-1
	Type	Input
	Net Name	FT8XX_nPD
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
FT8XX_nINT : P12/FT8XX_nINT	Name	FT8XX_nINT
	Number	
	Swap Id	-1
	Type	Output
	Net Name	FT8XX_nINT
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
SPI_nCS : P12/SPI_nCS	Name	SPI_nCS
	Number	
	Swap Id	-1
	Type	Input
	Net Name	SPI1_nCS
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
INS839139 : J19	PCB Footprint	SJ-352X-SMT
	Name	INS839139
	ID	1961
	Reference	J19
	Designator	
	Part Reference	J19
	Value	SJ-352X-SMT
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:CP-3523SJCT-ND,mfr:CUI Devices,mpr:SJ-3523-SMT-TR}
	Digi-Key PN	CP-3523SJCT-ND
	Description	CONN JACK STEREO 3.5MM SMD R/A
	Manufacturer PN	SJ-3523-SMT-TR
	Manufacturer	CUI Devices
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : J19/1	Name	1
	Number	1
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : J19/2	Name	2
	Number	2
	Swap Id	-1
	Type	Input
	Net Name	N996116
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
3 : J19/3	Name	3
	Number	3
	Swap Id	-1
	Type	Input
	Net Name	N996104
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
4 : J19/4	Name	4
	Number	4
	Swap Id	-1
	Type	Input
	Net Name	
	Order	3
	Is No Connect	True

Object	Property Name	Property Value
MT1 : J19/MT1	Name	MT1
	Number	5
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	4
	Is No Connect	True

Object	Property Name	Property Value
MT2 : J19/MT2	Name	MT2
	Number	6
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	5
	Is No Connect	True

Object	Property Name	Property Value
INS1014609 : J5	PCB Footprint	molex3p100
	Name	INS1014609
	ID	3617
	Reference	J5
	Designator	
	Part Reference	J5
	Value	molex3p100
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Manufacturer	TE Connectivity AMP Connectors
	Manufacturer PN	640454-3
	Description	CONN HEADER VERT 3POS 2.54MM
	Digi-Key PN	A19430-ND
	digikey_id	{distributorPn:A19430-ND,mfr:TE Connectivity AMP Connectors,mpn:640454-3}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : J5/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : J5/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	485_A
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
3 : J5/3	Name	3
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	485_B
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
INS1025561 : J14	PCB Footprint	small_header2p100
	Name	INS1025561
	ID	3906
	Reference	J14
	Designator	
	Part Reference	J14
	Value	header2p100
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Manufacturer	Sullins Connector Solutions
	Manufacturer PN	PREC002SAAN-RC
	Description	CONN HEADER VERT 2POS 2.54MM
	Digi-Key PN	S1012EC-02-ND
	digikey_id	{distributorPn:S1012EC-02-ND,mfr:Sullins Connector Solutions,mpn:PREC002SAAN-RC}

Object	Property Name	Property Value
1 : J14/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	RCDAC1
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : J14/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1026536 : J2	PCB Footprint	usb-b
	Name	INS1026536
	ID	3927
	Reference	J2
	Designator	
	Part Reference	J2
	Value	USB-B
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Digi-Key PN	455-2880-1-ND
	digikey_id	{distributorPn:455-2880-1-ND,mfr:JST Sales America Inc.,mpn:UB-MC5BR3-S}
	Description	CONN RCP MICRO USB B 5POS SMD RA
	Distributor PN	455-2880-1-ND
	Distributor	Digi-Key
	Manufacturer PN	UB-MC5BR3-SD204-4S-1-TB NMP
	Manufacturer	JST Sales America Inc.

Object	Property Name	Property Value
V- : J2/V-	Name	V-
	Number	5
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
ID : J2/ID	Name	ID
	Number	4
	Swap Id	-1
	Type	Input
	Net Name	
	Order	1
	Is No Connect	True

Object	Property Name	Property Value
D+ : J2/D+	Name	D+
	Number	3
	Swap Id	-1
	Type	Bidirectional
	Net Name	USB_NATIVE_D+
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
D- : J2/D-	Name	D-
	Number	2
	Swap Id	-1
	Type	Bidirectional
	Net Name	USB_NATIVE_D-
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
V+ : J2/V+	Name	V+
	Number	1
	Swap Id	-1
	Type	Power
	Net Name	N1462007
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
DGND : J2/DGND	Name	DGND
	Number	6
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
DGND : J2/DGND	Name	DGND
	Number	7
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
DGND : J2/DGND	Name	DGND
	Number	8
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
DGND : J2/DGND	Name	DGND
	Number	9
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	8
	Is No Connect	False

Object	Property Name	Property Value
DGND : J2/DGND	Name	DGND
	Number	10
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	9
	Is No Connect	False

Object	Property Name	Property Value
DGND : J2/DGND	Name	DGND
	Number	11
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	10
	Is No Connect	False

Object	Property Name	Property Value
INS1275139 : D2	Name	INS1275139
	ID	7807
	Reference	D2
	Designator	
	Part Reference	D2
	Value	TVS 3V3 QL
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:ESD8104MUTAGOSCT-ND,mfr:ON Semiconductor,mpn:ESD8104MUTAGOSCT-ND}
	Digi-Key PN	ESD8104MUTAGOSCT-ND
	Description	TVS DIODE 3.3V 11.4V 10UDFN
	Manufacturer PN	ESD8104MUTAG
	Manufacturer	ON Semiconductor
	PCB Footprint	UDFN-10
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
C1 : D2/C1	Name	C1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	PMA4
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
C2 : D2/C2	Name	C2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	PMA5
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
GND : D2/GND	Name	GND
	Number	3
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
C3 : D2/C3	Name	C3
	Number	4
	Swap Id	-1
	Type	Passive
	Net Name	PMA6
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
C4 : D2/C4	Name	C4
	Number	5
	Swap Id	-1
	Type	Passive
	Net Name	PMA7
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
C4-2 : D2/C4-2	Name	C4-2
	Number	6
	Swap Id	-1
	Type	Passive
	Net Name	PMA7
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
C3-2 : D2/C3-2	Name	C3-2
	Number	7
	Swap Id	-1
	Type	Passive
	Net Name	PMA6
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
C1-2 : D2/C1-2	Name	C1-2
	Number	9
	Swap Id	-1
	Type	Passive
	Net Name	PMA4
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
C2-2 : D2/C2-2	Name	C2-2
	Number	8
	Swap Id	-1
	Type	Passive
	Net Name	PMA5
	Order	8
	Is No Connect	False

Object	Property Name	Property Value
INS1276177 : D5	Name	INS1276177
	ID	7837
	Reference	D5
	Designator	
	Part Reference	D5
	Value	TVS 3V3 QL
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:ESD8104MUTAGOSCT-ND,mfr:ON Semiconductor,mprn:ESD8104MUTAGOSCT-ND}
	Digi-Key PN	ESD8104MUTAGOSCT-ND
	Description	TVS DIODE 3.3V 11.4V 10UDFN
	Manufacturer PN	ESD8104MUTAG
	Manufacturer	ON Semiconductor
	PCB Footprint	UDFN-10
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
C1 : D5/C1	Name	C1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	PMD0
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
C2 : D5/C2	Name	C2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	PMD1
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
GND : D5/GND	Name	GND
	Number	3
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
C3 : D5/C3	Name	C3
	Number	4
	Swap Id	-1
	Type	Passive
	Net Name	PMD2
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
C4 : D5/C4	Name	C4
	Number	5
	Swap Id	-1
	Type	Passive
	Net Name	PMD3
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
C4-2 : D5/C4-2	Name	C4-2
	Number	6
	Swap Id	-1
	Type	Passive
	Net Name	PMD3
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
C3-2 : D5/C3-2	Name	C3-2
	Number	7
	Swap Id	-1
	Type	Passive
	Net Name	PMD2
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
C1-2 : D5/C1-2	Name	C1-2
	Number	9
	Swap Id	-1
	Type	Passive
	Net Name	PMD0
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
C2-2 : D5/C2-2	Name	C2-2
	Number	8
	Swap Id	-1
	Type	Passive
	Net Name	PMD1
	Order	8
	Is No Connect	False

Object	Property Name	Property Value
INS1081981 : J12	PCB Footprint	DF40C-24DS-04V51
	Name	INS1081981
	ID	5938
	Reference	J12
	Designator	
	Part Reference	J12
	Value	CONN_24P_2x12
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Manufacturer	Hirose Electric Co Ltd
	Manufacturer PN	DF40C(2.0)-24DS-0.4V(58)
	Description	CONN RCPT 24POS SMD GOLD
	Digi-Key PN	H124598CT-ND
	digikey_id	{distributorPn:H124598CT-ND,mfr:Hirose Electric Co Ltd,mpn:DF40C(2.0)-24DS-0.4V(58)}
	Distributor	
	Distributor PN	

Object	Property Name	Property Value
1 : J12/1	Name	1
	Number	1
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMA0
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : J12/2	Name	2
	Number	2
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMA8
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
3 : J12/3	Name	3
	Number	3
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMA1
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
4 : J12/4	Name	4
	Number	4
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMA9
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
5 : J12/5	Name	5
	Number	5
	Swap Id	-1
	Type	Bidirectional
	Net Name	DGND
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
6 : J12/6	Name	6
	Number	6
	Swap Id	-1
	Type	Bidirectional
	Net Name	DGND
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
7 : J12/7	Name	7
	Number	7
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMA2
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
8 : J12/8	Name	8
	Number	8
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMA10
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
9 : J12/9	Name	9
	Number	9
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMA3
	Order	8
	Is No Connect	False

Object	Property Name	Property Value
10 : J12/10	Name	10
	Number	10
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMA11
	Order	9
	Is No Connect	False

Object	Property Name	Property Value
11 : J12/11	Name	11
	Number	11
	Swap Id	-1
	Type	Bidirectional
	Net Name	DGND
	Order	10
	Is No Connect	False

Object	Property Name	Property Value
12 : J12/12	Name	12
	Number	12
	Swap Id	-1
	Type	Bidirectional
	Net Name	DGND
	Order	11
	Is No Connect	False

Object	Property Name	Property Value
13 : J12/13	Name	13
	Number	13
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMA4
	Order	12
	Is No Connect	False

Object	Property Name	Property Value
14 : J12/14	Name	14
	Number	14
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMA12
	Order	13
	Is No Connect	False

Object	Property Name	Property Value
15 : J12/15	Name	15
	Number	15
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMA5
	Order	14
	Is No Connect	False

Object	Property Name	Property Value
16 : J12/16	Name	16
	Number	16
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMA13
	Order	15
	Is No Connect	False

Object	Property Name	Property Value
17 : J12/17	Name	17
	Number	17
	Swap Id	-1
	Type	Bidirectional
	Net Name	DGND
	Order	16
	Is No Connect	False

Object	Property Name	Property Value
18 : J12/18	Name	18
	Number	18
	Swap Id	-1
	Type	Bidirectional
	Net Name	DGND
	Order	17
	Is No Connect	False

Object	Property Name	Property Value
19 : J12/19	Name	19
	Number	19
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMA6
	Order	18
	Is No Connect	False

Object	Property Name	Property Value
20 : J12/20	Name	20
	Number	20
	Swap Id	-1
	Type	Bidirectional
	Net Name	DVDD_3V3
	Order	19
	Is No Connect	False

Object	Property Name	Property Value
21 : J12/21	Name	21
	Number	21
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMA7
	Order	20
	Is No Connect	False

Object	Property Name	Property Value
22 : J12/22	Name	22
	Number	22
	Swap Id	-1
	Type	Bidirectional
	Net Name	DVDD_3V3
	Order	21
	Is No Connect	False

Object	Property Name	Property Value
23 : J12/23	Name	23
	Number	23
	Swap Id	-1
	Type	Bidirectional
	Net Name	DGND
	Order	22
	Is No Connect	False

Object	Property Name	Property Value
24 : J12/24	Name	24
	Number	24
	Swap Id	-1
	Type	Bidirectional
	Net Name	DVDD_3V3
	Order	23
	Is No Connect	False

Object	Property Name	Property Value
P6 : P7	Name	P6
	ID	5188
	Reference	P7
	Designator	
	Part Reference	P7
	Value	ANALOG INPUT -3V3
	Primitive	DEFAULT
	Implementation Type	Schematic View
	Implementation	ANALOG INPUT -3V3
	Implementation Path	
	PCB Footprint	

Object	Property Name	Property Value
ADCINx : P7/ADCINx	Name	ADCINx
	Number	
	Swap Id	-1
	Type	Output
	Net Name	AIN_AN1
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
VINx+ : P7/VINx+	Name	VINx+
	Number	
	Swap Id	-1
	Type	Input
	Net Name	AN1_V+
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
VINx- : P7/VINx-	Name	VINx-
	Number	
	Swap Id	-1
	Type	Input
	Net Name	AN1_V-
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
INS979134 : J4	PCB Footprint	molex3p100
	Name	INS979134
	ID	2792
	Reference	J4
	Designator	
	Part Reference	J4
	Value	molex3p100
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Manufacturer	TE Connectivity AMP Connectors
	Manufacturer PN	640454-3
	Description	CONN HEADER VERT 3POS 2.54MM
	Digi-Key PN	A19430-ND
	digikey_id	{distributorPn:A19430-ND,mfr:TE Connectivity AMP Connectors,mpn:640454-3}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : J4/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : J4/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	CANL
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
3 : J4/3	Name	3
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	CANH
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
INS1461817 : C161	Name	INS1461817
	ID	8954
	Reference	C161
	Designator	
	Part Reference	C161
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Digi-Key PN	1276-1000-1-ND
	Description	CAP CER 0.1UF 50V X7R 0603
	Manufacturer PN	CL10B104KB8NNNC
	Manufacturer	Samsung Electro-Mechanics
	PCB Footprint	0603_cap_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : C161/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	USB_NATIVE_5V0
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : C161/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1273713 : D1	Name	INS1273713
	ID	7797
	Reference	D1
	Designator	
	Part Reference	D1
	Value	TVS 3V3 QL
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:ESD8104MUTAGOSCT-ND,mfr:ON Semiconductor,mpn:ESD8104MUTAGOSCT-ND}
	Digi-Key PN	ESD8104MUTAGOSCT-ND
	Description	TVS DIODE 3.3V 11.4V 10UDFN
	Manufacturer PN	ESD8104MUTAG
	Manufacturer	ON Semiconductor
	PCB Footprint	UDFN-10
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
C1 : D1/C1	Name	C1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	PMA0
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
C2 : D1/C2	Name	C2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	PMA1
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
GND : D1/GND	Name	GND
	Number	3
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
C3 : D1/C3	Name	C3
	Number	4
	Swap Id	-1
	Type	Passive
	Net Name	PMA2
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
C4 : D1/C4	Name	C4
	Number	5
	Swap Id	-1
	Type	Passive
	Net Name	PMA3
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
C4-2 : D1/C4-2	Name	C4-2
	Number	6
	Swap Id	-1
	Type	Passive
	Net Name	PMA3
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
C3-2 : D1/C3-2	Name	C3-2
	Number	7
	Swap Id	-1
	Type	Passive
	Net Name	PMA2
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
C1-2 : D1/C1-2	Name	C1-2
	Number	9
	Swap Id	-1
	Type	Passive
	Net Name	PMA0
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
C2-2 : D1/C2-2	Name	C2-2
	Number	8
	Swap Id	-1
	Type	Passive
	Net Name	PMA1
	Order	8
	Is No Connect	False

Object	Property Name	Property Value
P20 : P6	Name	P20
	ID	5105
	Reference	P6
	Designator	
	Part Reference	P6
	Value	ANALOG INPUT -3V3
	Primitive	DEFAULT
	Implementation Type	Schematic View
	Implementation	ANALOG INPUT -3V3
	Implementation Path	
	PCB Footprint	

Object	Property Name	Property Value
ADCINx : P6/ADCINx	Name	ADCINx
	Number	
	Swap Id	-1
	Type	Output
	Net Name	AIN_AN0
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
VINx+ : P6/VINx+	Name	VINx+
	Number	
	Swap Id	-1
	Type	Input
	Net Name	AN0_V+
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
VINx- : P6/VINx-	Name	VINx-
	Number	
	Swap Id	-1
	Type	Input
	Net Name	AN0_V-
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
INS1082237 : J13	PCB Footprint	DF40C-24DS-04V51
	Name	INS1082237
	ID	5963
	Reference	J13
	Designator	
	Part Reference	J13
	Value	CONN_24P_2x12
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:H124598CT-ND,mfr:Hirose Electric Co Ltd,mpn:DF40C(2.0)-24D-04V51}
	Digi-Key PN	H124598CT-ND
	Description	CONN RCPT 24POS SMD GOLD
	Manufacturer PN	DF40C(2.0)-24DS-0.4V(58)
	Manufacturer	Hirose Electric Co Ltd
	Distributor	
	Distributor PN	

Object	Property Name	Property Value
1 : J13/1	Name	1
	Number	1
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMD0
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : J13/2	Name	2
	Number	2
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMCS1
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
3 : J13/3	Name	3
	Number	3
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMD1
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
4 : J13/4	Name	4
	Number	4
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMCS2
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
5 : J13/5	Name	5
	Number	5
	Swap Id	-1
	Type	Bidirectional
	Net Name	DGND
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
6 : J13/6	Name	6
	Number	6
	Swap Id	-1
	Type	Bidirectional
	Net Name	DGND
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
7 : J13/7	Name	7
	Number	7
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMD2
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
8 : J13/8	Name	8
	Number	8
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMWWR
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
9 : J13/9	Name	9
	Number	9
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMD3
	Order	8
	Is No Connect	False

Object	Property Name	Property Value
10 : J13/10	Name	10
	Number	10
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMRD
	Order	9
	Is No Connect	False

Object	Property Name	Property Value
11 : J13/11	Name	11
	Number	11
	Swap Id	-1
	Type	Bidirectional
	Net Name	DGND
	Order	10
	Is No Connect	False

Object	Property Name	Property Value
12 : J13/12	Name	12
	Number	12
	Swap Id	-1
	Type	Bidirectional
	Net Name	DGND
	Order	11
	Is No Connect	False

Object	Property Name	Property Value
13 : J13/13	Name	13
	Number	13
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMD4
	Order	12
	Is No Connect	False

Object	Property Name	Property Value
14 : J13/14	Name	14
	Number	14
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMBE
	Order	13
	Is No Connect	False

Object	Property Name	Property Value
15 : J13/15	Name	15
	Number	15
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMD5
	Order	14
	Is No Connect	False

Object	Property Name	Property Value
16 : J13/16	Name	16
	Number	16
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMP_GPIO
	Order	15
	Is No Connect	False

Object	Property Name	Property Value
17 : J13/17	Name	17
	Number	17
	Swap Id	-1
	Type	Bidirectional
	Net Name	DGND
	Order	16
	Is No Connect	False

Object	Property Name	Property Value
18 : J13/18	Name	18
	Number	18
	Swap Id	-1
	Type	Bidirectional
	Net Name	DGND
	Order	17
	Is No Connect	False

Object	Property Name	Property Value
19 : J13/19	Name	19
	Number	19
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMD6
	Order	18
	Is No Connect	False

Object	Property Name	Property Value
20 : J13/20	Name	20
	Number	20
	Swap Id	-1
	Type	Bidirectional
	Net Name	DVDD_3V3
	Order	19
	Is No Connect	False

Object	Property Name	Property Value
21 : J13/21	Name	21
	Number	21
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMD7
	Order	20
	Is No Connect	False

Object	Property Name	Property Value
22 : J13/22	Name	22
	Number	22
	Swap Id	-1
	Type	Bidirectional
	Net Name	DVDD_3V3
	Order	21
	Is No Connect	False

Object	Property Name	Property Value
23 : J13/23	Name	23
	Number	23
	Swap Id	-1
	Type	Bidirectional
	Net Name	DGND
	Order	22
	Is No Connect	False

Object	Property Name	Property Value
24 : J13/24	Name	24
	Number	24
	Swap Id	-1
	Type	Bidirectional
	Net Name	DVDD_3V3
	Order	23
	Is No Connect	False

Object	Property Name	Property Value
P15 : P11	Name	P15
	ID	4530
	Reference	P11
	Designator	
	Part Reference	P11
	Value	ANALOG INPUT -10V
	Primitive	DEFAULT
	Implementation Type	Schematic View
	Implementation	ANALOG INPUT -10V
	Implementation Path	
	PCB Footprint	

Object	Property Name	Property Value
ADCINx : P11/ADCINx	Name	ADCINx
	Number	
	Swap Id	-1
	Type	Output
	Net Name	AIN_AN15
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
VINx+ : P11/VINx+	Name	VINx+
	Number	
	Swap Id	-1
	Type	Input
	Net Name	AN15_V+
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
VINx- : P11/VINx-	Name	VINx-
	Number	
	Swap Id	-1
	Type	Input
	Net Name	AN15_V-
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
P10 : P8	Name	P10
	ID	3971
	Reference	P8
	Designator	
	Part Reference	P8
	Value	ANALOG INPUT -10V
	Primitive	DEFAULT
	Implementation Type	Schematic View
	Implementation	ANALOG INPUT -10V
	Implementation Path	
	PCB Footprint	

Object	Property Name	Property Value
ADCINx : P8/ADCINx	Name	ADCINx
	Number	
	Swap Id	-1
	Type	Output
	Net Name	AIN_AN12
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
VINx+ : P8/VINx+	Name	VINx+
	Number	
	Swap Id	-1
	Type	Input
	Net Name	AN12_V+
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
VINx- : P8/VINx-	Name	VINx-
	Number	
	Swap Id	-1
	Type	Input
	Net Name	AN12_V-
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
INS1461801 : FB1	Name	INS1461801
	ID	8951
	Reference	FB1
	Designator	
	Part Reference	FB1
	Value	BLM18PG121SN1D
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_fb
	digikey_id	{distributorPn:490-1037-1-ND,mfr:Murata Electronics,mpn:BLM18PG121SN1D}
	Digi-Key PN	490-1037-1-ND
	Manufacturer PN	BLM18PG121SN1D
	Manufacturer	Murata Electronics
	Distributor PN	490-1037-1-ND
	Distributor	Digi-Key
	Description	FERRITE BEAD 120 OHM 0603 1LN

Object	Property Name	Property Value
1 : FB1/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N1462007
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : FB1/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	USB_NATIVE_5V0
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1290392 : J18	Name	INS1290392
	ID	7986
	Reference	J18
	Designator	
	Part Reference	J18
	Value	SJ-352X-SMT
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:CP-3523SJCT-ND,mfr:CUI Devices,mpr:SJ-3523-SMT-TR}
	Digi-Key PN	CP-3523SJCT-ND
	Description	CONN JACK STEREO 3.5MM SMD R/A
	Manufacturer PN	SJ-3523-SMT-TR
	Manufacturer	CUI Devices
	PCB Footprint	SJ-352X-SMT
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : J18/1	Name	1
	Number	1
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : J18/2	Name	2
	Number	2
	Swap Id	-1
	Type	Input
	Net Name	N1291882
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
3 : J18/3	Name	3
	Number	3
	Swap Id	-1
	Type	Input
	Net Name	N1291894
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
4 : J18/4	Name	4
	Number	4
	Swap Id	-1
	Type	Input
	Net Name	
	Order	3
	Is No Connect	True

Object	Property Name	Property Value
MT1 : J18/MT1	Name	MT1
	Number	5
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	4
	Is No Connect	True

Object	Property Name	Property Value
MT2 : J18/MT2	Name	MT2
	Number	6
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	5
	Is No Connect	True

Object	Property Name	Property Value
INS1461835 : C162	Name	INS1461835
	ID	8957
	Reference	C162
	Designator	
	Part Reference	C162
	Value	1nF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:478-1215-1-ND,mfr:AVX Corporation,mpn:06035C102KAT2A,uln:06035C102KAT2A,upn:06035C102KAT2A}
	Digi-Key PN	478-1215-1-ND
	Description	CAP CER 1000PF 50V X7R 0603
	Manufacturer PN	06035C102KAT2A
	Manufacturer	AVX Corporation
	PCB Footprint	0603_cap_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : C162/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	USB_NATIVE_5V0
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : C162/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
P30 : P3	Name	P30
	ID	7056
	Reference	P3
	Designator	
	Part Reference	P3
	Value	USB-UART
	Primitive	DEFAULT
	Implementation Type	Schematic View
	Implementation	USB-UART
	Implementation Path	
	PCB Footprint	

Object	Property Name	Property Value
D+ : P3/D+	Name	D+
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	USB_UART_D+_BRIDGE
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
D- : P3/D-	Name	D-
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	USB_UART_D-_BRIDGE
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
UART_RX : P3/UART_RX	Name	UART_RX
	Number	
	Swap Id	-1
	Type	Output
	Net Name	UART3_RX
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
UART_TX : P3/UART_TX	Name	UART_TX
	Number	
	Swap Id	-1
	Type	Input
	Net Name	UART3_TX
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
P2 : P1	Name	P2
	ID	1493
	Reference	P1
	Designator	
	Part Reference	P1
	Value	MCU I/Os
	Primitive	DEFAULT
	Implementation Type	Schematic View
	Implementation	MCU I/Os
	Implementation Path	
	PCB Footprint	

Object	Property Name	Property Value
USB_D- : P1/USB_D-	Name	USB_D-
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	USB_NATIVE_D-_MCU
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
USB_D+ : P1/USB_D+	Name	USB_D+
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	USB_NATIVE_D+_MCU
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
SPI2_MOSI : P1/SPI2_MOSI	Name	SPI2_MOSI
	Number	
	Swap Id	-1
	Type	Output
	Net Name	SPI2_MOSI
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
SPI2_SCLK : P1/SPI2_SCLK	Name	SPI2_SCLK
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	SPI2_SCLK
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
SPI2_MISO : P1/SPI2_MISO	Name	SPI2_MISO
	Number	
	Swap Id	-1
	Type	Input
	Net Name	SPI2_MISO
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
PWM1L : P1/PWM1L	Name	PWM1L
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PWM1L
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
PWM2H : P1/PWM2H	Name	PWM2H
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PWM2H
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
QEA1 : P1/QEA1	Name	QEA1
	Number	
	Swap Id	-1
	Type	Input
	Net Name	QEA1
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
QEA2 : P1/QEA2	Name	QEA2
	Number	
	Swap Id	-1
	Type	Input
	Net Name	QEA2
	Order	8
	Is No Connect	False

Object	Property Name	Property Value
QEB1 : P1/QEB1	Name	QEB1
	Number	
	Swap Id	-1
	Type	Input
	Net Name	QEB1
	Order	9
	Is No Connect	False

Object	Property Name	Property Value
PWM2L : P1/PWM2L	Name	PWM2L
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PWM2L
	Order	10
	Is No Connect	False

Object	Property Name	Property Value
PWM1H : P1/PWM1H	Name	PWM1H
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PWM1H
	Order	11
	Is No Connect	False

Object	Property Name	Property Value
QEB2 : P1/QEB2	Name	QEB2
	Number	
	Swap Id	-1
	Type	Input
	Net Name	QEB2
	Order	12
	Is No Connect	False

Object	Property Name	Property Value
SPI3_MOSI : P1/SPI3_MOSI	Name	SPI3_MOSI
	Number	
	Swap Id	-1
	Type	Output
	Net Name	SPI3_MOSI
	Order	13
	Is No Connect	False

Object	Property Name	Property Value
nFAULT2 : P1/nFAULT2	Name	nFAULT2
	Number	
	Swap Id	-1
	Type	Input
	Net Name	nFAULT2
	Order	14
	Is No Connect	False

Object	Property Name	Property Value
SPI3_nCS : P1/SPI3_nCS	Name	SPI3_nCS
	Number	
	Swap Id	-1
	Type	Output
	Net Name	SPI3_nCS
	Order	15
	Is No Connect	False

Object	Property Name	Property Value
I2S_DIN : P1/I2S_DIN	Name	I2S_DIN
	Number	
	Swap Id	-1
	Type	Input
	Net Name	I2S_DIN
	Order	16
	Is No Connect	False

Object	Property Name	Property Value
I2S_SCLK : P1/I2S_SCLK	Name	I2S_SCLK
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	I2S_SCLK
	Order	17
	Is No Connect	False

Object	Property Name	Property Value
I2S_COFS : P1/I2S_COFS	Name	I2S_COFS
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	I2S_COFS
	Order	18
	Is No Connect	False

Object	Property Name	Property Value
SPI3_SCLK : P1/SPI3_SCLK	Name	SPI3_SCLK
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	SPI3_SCLK
	Order	19
	Is No Connect	False

Object	Property Name	Property Value
I2S_DOUT : P1/I2S_DOUT	Name	I2S_DOUT
	Number	
	Swap Id	-1
	Type	Output
	Net Name	I2S_DOUT
	Order	20
	Is No Connect	False

Object	Property Name	Property Value
nFAULT1 : P1/nFAULT1	Name	nFAULT1
	Number	
	Swap Id	-1
	Type	Input
	Net Name	nFAULT1
	Order	21
	Is No Connect	False

Object	Property Name	Property Value
SD_nDETECT : P1/SD_nDETECT	Name	SD_nDETECT
	Number	
	Swap Id	-1
	Type	Input
	Net Name	SD_nDETECT
	Order	22
	Is No Connect	False

Object	Property Name	Property Value
ASDA1 : P1/ASDA1	Name	ASDA1
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	ASDA1
	Order	23
	Is No Connect	False

Object	Property Name	Property Value
ASDA2 : P1/ASDA2	Name	ASDA2
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	ASDA2
	Order	24
	Is No Connect	False

Object	Property Name	Property Value
ASCL1 : P1/ASCL1	Name	ASCL1
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	ASCL1
	Order	25
	Is No Connect	False

Object	Property Name	Property Value
ASCL2 : P1/ASCL2	Name	ASCL2
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	ASCL2
	Order	26
	Is No Connect	False

Object	Property Name	Property Value
PWM4H : P1/PWM4H	Name	PWM4H
	Number	
	Swap Id	-1
	Type	Output
	Net Name	MKB1_PWM
	Order	27
	Is No Connect	False

Object	Property Name	Property Value
SPI4_SCLK : P1/SPI4_SCLK	Name	SPI4_SCLK
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	SPI4_SCLK
	Order	28
	Is No Connect	False

Object	Property Name	Property Value
UART2_TX : P1/UART2_TX	Name	UART2_TX
	Number	
	Swap Id	-1
	Type	Output
	Net Name	UART2_TX
	Order	29
	Is No Connect	False

Object	Property Name	Property Value
SPI4_MISO : P1/SPI4_MISO	Name	SPI4_MISO
	Number	
	Swap Id	-1
	Type	Input
	Net Name	SPI4_MISO
	Order	30
	Is No Connect	False

Object	Property Name	Property Value
UART2_RX : P1/UART2_RX	Name	UART2_RX
	Number	
	Swap Id	-1
	Type	Input
	Net Name	UART2_RX
	Order	31
	Is No Connect	False

Object	Property Name	Property Value
SPI4_MOSI : P1/SPI4_MOSI	Name	SPI4_MOSI
	Number	
	Swap Id	-1
	Type	Output
	Net Name	SPI4_MOSI
	Order	32
	Is No Connect	False

Object	Property Name	Property Value
SPI1_MOSI : P1/SPI1_MOSI	Name	SPI1_MOSI
	Number	
	Swap Id	-1
	Type	Output
	Net Name	SPI1_MOSI
	Order	33
	Is No Connect	False

Object	Property Name	Property Value
FT8XX_nPD : P1/FT8XX_nPD	Name	FT8XX_nPD
	Number	
	Swap Id	-1
	Type	Output
	Net Name	FT8XX_nPD
	Order	34
	Is No Connect	False

Object	Property Name	Property Value
SPI1_SCLK : P1/SPI1_SCLK	Name	SPI1_SCLK
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	SPI1_SCLK
	Order	35
	Is No Connect	False

Object	Property Name	Property Value
SPI1_nCS : P1/SPI1_nCS	Name	SPI1_nCS
	Number	
	Swap Id	-1
	Type	Output
	Net Name	SPI1_nCS
	Order	36
	Is No Connect	False

Object	Property Name	Property Value
FT8XX_nINT : P1/FT8XX_nINT	Name	FT8XX_nINT
	Number	
	Swap Id	-1
	Type	Input
	Net Name	FT8XX_nINT
	Order	37
	Is No Connect	False

Object	Property Name	Property Value
SPI1_MISO : P1/SPI1_MISO	Name	SPI1_MISO
	Number	
	Swap Id	-1
	Type	Input
	Net Name	SPI1_MISO
	Order	38
	Is No Connect	False

Object	Property Name	Property Value
CAN_LBK : P1/CAN_LBK	Name	CAN_LBK
	Number	
	Swap Id	-1
	Type	Output
	Net Name	CAN_LBK
	Order	39
	Is No Connect	False

Object	Property Name	Property Value
CAN_TX : P1/CAN_TX	Name	CAN_TX
	Number	
	Swap Id	-1
	Type	Output
	Net Name	CAN_TX
	Order	40
	Is No Connect	False

Object	Property Name	Property Value
CAN_RX : P1/CAN_RX	Name	CAN_RX
	Number	
	Swap Id	-1
	Type	Input
	Net Name	CAN_RX
	Order	41
	Is No Connect	False

Object	Property Name	Property Value
PMA6 : P1/PMA6	Name	PMA6
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PMA6
	Order	42
	Is No Connect	False

Object	Property Name	Property Value
PMD7 : P1/PMD7	Name	PMD7
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMD7
	Order	43
	Is No Connect	False

Object	Property Name	Property Value
PMD0 : P1/PMD0	Name	PMD0
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMD0
	Order	44
	Is No Connect	False

Object	Property Name	Property Value
PMD1 : P1/PMD1	Name	PMD1
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMD1
	Order	45
	Is No Connect	False

Object	Property Name	Property Value
PMD2 : P1/PMD2	Name	PMD2
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMD2
	Order	46
	Is No Connect	False

Object	Property Name	Property Value
PMD3 : P1/PMD3	Name	PMD3
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMD3
	Order	47
	Is No Connect	False

Object	Property Name	Property Value
PMD4 : P1/PMD4	Name	PMD4
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMD4
	Order	48
	Is No Connect	False

Object	Property Name	Property Value
PMD5 : P1/PMD5	Name	PMD5
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMD5
	Order	49
	Is No Connect	False

Object	Property Name	Property Value
PMWR : P1/PMWR	Name	PMWR
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PMWR
	Order	50
	Is No Connect	False

Object	Property Name	Property Value
PMD6 : P1/PMD6	Name	PMD6
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMD6
	Order	51
	Is No Connect	False

Object	Property Name	Property Value
PMA5 : P1/PMA5	Name	PMA5
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PMA5
	Order	52
	Is No Connect	False

Object	Property Name	Property Value
PMCS1 : P1/PMCS1	Name	PMCS1
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PMCS1
	Order	53
	Is No Connect	False

Object	Property Name	Property Value
PMA4 : P1/PMA4	Name	PMA4
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PMA4
	Order	54
	Is No Connect	False

Object	Property Name	Property Value
PMA9 : P1/PMA9	Name	PMA9
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PMA9
	Order	55
	Is No Connect	False

Object	Property Name	Property Value
PMRD : P1/PMRD	Name	PMRD
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PMRD
	Order	56
	Is No Connect	False

Object	Property Name	Property Value
PMA8 : P1/PMA8	Name	PMA8
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PMA8
	Order	57
	Is No Connect	False

Object	Property Name	Property Value
PMA12 : P1/PMA12	Name	PMA12
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PMA12
	Order	58
	Is No Connect	False

Object	Property Name	Property Value
PMA13 : P1/PMA13	Name	PMA13
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PMA13
	Order	59
	Is No Connect	False

Object	Property Name	Property Value
PMA10 : P1/PMA10	Name	PMA10
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PMA10
	Order	60
	Is No Connect	False

Object	Property Name	Property Value
PMBE : P1/PMBE	Name	PMBE
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PMBE
	Order	61
	Is No Connect	False

Object	Property Name	Property Value
PMA11 : P1/PMA11	Name	PMA11
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PMA11
	Order	62
	Is No Connect	False

Object	Property Name	Property Value
PMA3 : P1/PMA3	Name	PMA3
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PMA3
	Order	63
	Is No Connect	False

Object	Property Name	Property Value
PMA2 : P1/PMA2	Name	PMA2
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PMA2
	Order	64
	Is No Connect	False

Object	Property Name	Property Value
PMA1 : P1/PMA1	Name	PMA1
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PMA1
	Order	65
	Is No Connect	False

Object	Property Name	Property Value
PMA0 : P1/PMA0	Name	PMA0
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PMA0
	Order	66
	Is No Connect	False

Object	Property Name	Property Value
PMCS2 : P1/PMCS2	Name	PMCS2
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PMCS2
	Order	67
	Is No Connect	False

Object	Property Name	Property Value
PMA7 : P1/PMA7	Name	PMA7
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PMA7
	Order	68
	Is No Connect	False

Object	Property Name	Property Value
UART1_TX : P1/UART1_TX	Name	UART1_TX
	Number	
	Swap Id	-1
	Type	Output
	Net Name	UART1_TX
	Order	69
	Is No Connect	False

Object	Property Name	Property Value
UART1_RTS : P1/UART1_RTS	Name	UART1_RTS
	Number	
	Swap Id	-1
	Type	Output
	Net Name	UART1_RTS
	Order	70
	Is No Connect	False

Object	Property Name	Property Value
UART1_RX : P1/UART1_RX	Name	UART1_RX
	Number	
	Swap Id	-1
	Type	Input
	Net Name	UART1_RX
	Order	71
	Is No Connect	False

Object	Property Name	Property Value
UART1_CTS : P1/UART1_CTS	Name	UART1_CTS
	Number	
	Swap Id	-1
	Type	Input
	Net Name	UART1_CTS
	Order	72
	Is No Connect	False

Object	Property Name	Property Value
PWM6L : P1/PWM6L	Name	PWM6L
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PWM6L
	Order	73
	Is No Connect	False

Object	Property Name	Property Value
PWM6H : P1/PWM6H	Name	PWM6H
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PWM6H
	Order	74
	Is No Connect	False

Object	Property Name	Property Value
PWM5H : P1/PWM5H	Name	PWM5H
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PWM5H
	Order	75
	Is No Connect	False

Object	Property Name	Property Value
AIN_AN12 : P1/AIN_AN12	Name	AIN_AN12
	Number	
	Swap Id	-1
	Type	Input
	Net Name	AIN_AN12
	Order	76
	Is No Connect	False

Object	Property Name	Property Value
AIN_AN13 : P1/AIN_AN13	Name	AIN_AN13
	Number	
	Swap Id	-1
	Type	Input
	Net Name	AIN_AN13
	Order	77
	Is No Connect	False

Object	Property Name	Property Value
AIN_AN1 : P1/AIN_AN1	Name	AIN_AN1
	Number	
	Swap Id	-1
	Type	Input
	Net Name	AIN_AN1
	Order	78
	Is No Connect	False

Object	Property Name	Property Value
AIN_AN0 : P1/AIN_AN0	Name	AIN_AN0
	Number	
	Swap Id	-1
	Type	Input
	Net Name	AIN_AN0
	Order	79
	Is No Connect	False

Object	Property Name	Property Value
AIN_AN14 : P1/AIN_AN14	Name	AIN_AN14
	Number	
	Swap Id	-1
	Type	Input
	Net Name	AIN_AN14
	Order	80
	Is No Connect	False

Object	Property Name	Property Value
AIN_AN15 : P1/AIN_AN15	Name	AIN_AN15
	Number	
	Swap Id	-1
	Type	Input
	Net Name	AIN_AN15
	Order	81
	Is No Connect	False

Object	Property Name	Property Value
FLASH_nCS : P1/FLASH_nCS	Name	FLASH_nCS
	Number	
	Swap Id	-1
	Type	Output
	Net Name	FLASH_nCS
	Order	82
	Is No Connect	False

Object	Property Name	Property Value
SD_nCS : P1/SD_nCS	Name	SD_nCS
	Number	
	Swap Id	-1
	Type	Output
	Net Name	SD_nCS
	Order	83
	Is No Connect	False

Object	Property Name	Property Value
FLASH_nHOLD : P1/FLASH_nHOLD	Name	FLASH_nHOLD
	Number	
	Swap Id	-1
	Type	Output
	Net Name	FLASH_nHOLD
	Order	84
	Is No Connect	False

Object	Property Name	Property Value
FLASH_nWP : P1/FLASH_nWP	Name	FLASH_nWP
	Number	
	Swap Id	-1
	Type	Output
	Net Name	FLASH_nWP
	Order	85
	Is No Connect	False

Object	Property Name	Property Value
MKB1_INT : P1/MKB1_INT	Name	MKB1_INT
	Number	
	Swap Id	-1
	Type	Input
	Net Name	MKB1_INT
	Order	86
	Is No Connect	False

Object	Property Name	Property Value
PWM5L : P1/PWM5L	Name	PWM5L
	Number	
	Swap Id	-1
	Type	Output
	Net Name	MKB2_PWM
	Order	87
	Is No Connect	False

Object	Property Name	Property Value
MKB2_RST : P1/MKB2_RST	Name	MKB2_RST
	Number	
	Swap Id	-1
	Type	Output
	Net Name	MKB2_RST
	Order	88
	Is No Connect	False

Object	Property Name	Property Value
MKB2_AN21 : P1/MKB2_AN21	Name	MKB2_AN21
	Number	
	Swap Id	-1
	Type	Input
	Net Name	MKB2_AIN
	Order	89
	Is No Connect	False

Object	Property Name	Property Value
MKB2_nCS : P1/MKB2_nCS	Name	MKB2_nCS
	Number	
	Swap Id	-1
	Type	Output
	Net Name	MKB2_nCS
	Order	90
	Is No Connect	False

Object	Property Name	Property Value
MKB1_RST : P1/MKB1_RST	Name	MKB1_RST
	Number	
	Swap Id	-1
	Type	Output
	Net Name	MKB1_RST
	Order	91
	Is No Connect	False

Object	Property Name	Property Value
MKB1_nCS : P1/MKB1_nCS	Name	MKB1_nCS
	Number	
	Swap Id	-1
	Type	Output
	Net Name	MKB1_nCS
	Order	92
	Is No Connect	False

Object	Property Name	Property Value
MKB2_INT : P1/MKB2_INT	Name	MKB2_INT
	Number	
	Swap Id	-1
	Type	Input
	Net Name	MKB2_INT
	Order	93
	Is No Connect	False

Object	Property Name	Property Value
MKB1_AN20 : P1/MKB1_AN20	Name	MKB1_AN20
	Number	
	Swap Id	-1
	Type	Input
	Net Name	MKB1_AIN
	Order	94
	Is No Connect	False

Object	Property Name	Property Value
PMP_GPIO : P1/PMP_GPIO	Name	PMP_GPIO
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMP_GPIO
	Order	95
	Is No Connect	False

Object	Property Name	Property Value
RTCC_ALARM : P1/RTCC_ALARM	Name	RTCC_ALARM
	Number	
	Swap Id	-1
	Type	Output
	Net Name	BUZZER
	Order	96
	Is No Connect	False

Object	Property Name	Property Value
LED_1 : P1/LED_1	Name	LED_1
	Number	
	Swap Id	-1
	Type	Output
	Net Name	LED_1
	Order	97
	Is No Connect	False

Object	Property Name	Property Value
ROT_ENC_A : P1/ROT_ENC_A	Name	ROT_ENC_A
	Number	
	Swap Id	-1
	Type	Input
	Net Name	ROT_ENC_A
	Order	98
	Is No Connect	False

Object	Property Name	Property Value
ROT_ENC_B : P1/ROT_ENC_B	Name	ROT_ENC_B
	Number	
	Swap Id	-1
	Type	Input
	Net Name	ROT_ENC_B
	Order	99
	Is No Connect	False

Object	Property Name	Property Value
LED_3 : P1/LED_3	Name	LED_3
	Number	
	Swap Id	-1
	Type	Output
	Net Name	LED_3
	Order	100
	Is No Connect	False

Object	Property Name	Property Value
LED_2 : P1/LED_2	Name	LED_2
	Number	
	Swap Id	-1
	Type	Output
	Net Name	LED_2
	Order	101
	Is No Connect	False

Object	Property Name	Property Value
ROT_ENC_SW : P1/ROT_ENC_SW	Name	ROT_ENC_SW
	Number	
	Swap Id	-1
	Type	Input
	Net Name	ROT_ENC_SW
	Order	102
	Is No Connect	False

Object	Property Name	Property Value
AIN_AN2_POT : P1/AIN_AN2_POT	Name	AIN_AN2_POT
	Number	
	Swap Id	-1
	Type	Input
	Net Name	AIN_AN2_POT
	Order	103
	Is No Connect	False

Object	Property Name	Property Value
SWPWM_RGB_B : P1/SWPWM_RGB_B	Name	SWPWM_RGB_B
	Number	
	Swap Id	-1
	Type	Output
	Net Name	SWPWM_RGB_B
	Order	104
	Is No Connect	False

Object	Property Name	Property Value
SWPWM_RGB_R : P1/SWPWM_RGB_R	Name	SWPWM_RGB_R
	Number	
	Swap Id	-1
	Type	Output
	Net Name	SWPWM_RGB_R
	Order	105
	Is No Connect	False

Object	Property Name	Property Value
SWPWM_RGB_G : P1/SWPWM_RGB_G	Name	SWPWM_RGB_G
	Number	
	Swap Id	-1
	Type	Output
	Net Name	SWPWM_RGB_G
	Order	106
	Is No Connect	False

Object	Property Name	Property Value
LED_4 : P1/LED_4	Name	LED_4
	Number	
	Swap Id	-1
	Type	Output
	Net Name	LED_4
	Order	107
	Is No Connect	False

Object	Property Name	Property Value
BTN_4 : P1/BTN_4	Name	BTN_4
	Number	
	Swap Id	-1
	Type	Input
	Net Name	BTN_4
	Order	108
	Is No Connect	False

Object	Property Name	Property Value
BTN_2 : P1/BTN_2	Name	BTN_2
	Number	
	Swap Id	-1
	Type	Input
	Net Name	BTN_2
	Order	109
	Is No Connect	False

Object	Property Name	Property Value
BTN_3 : P1/BTN_3	Name	BTN_3
	Number	
	Swap Id	-1
	Type	Input
	Net Name	BTN_3
	Order	110
	Is No Connect	False

Object	Property Name	Property Value
BTN_1 : P1/BTN_1	Name	BTN_1
	Number	
	Swap Id	-1
	Type	Input
	Net Name	BTN_1
	Order	111
	Is No Connect	False

Object	Property Name	Property Value
UART3_TX : P1/UART3_TX	Name	UART3_TX
	Number	
	Swap Id	-1
	Type	Output
	Net Name	UART3_TX
	Order	112
	Is No Connect	False

Object	Property Name	Property Value
UART3_RX : P1/UART3_RX	Name	UART3_RX
	Number	
	Swap Id	-1
	Type	Input
	Net Name	UART3_RX
	Order	113
	Is No Connect	False

Object	Property Name	Property Value
INS1347749 : J23	Name	INS1347749
	ID	8522
	Reference	J23
	Designator	
	Part Reference	J23
	Value	tb2pos5mm
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	Termblock_5mm_2pos
	Manufacturer	CUI Devices
	Manufacturer PN	TB002-500-02BE
	Description	TERMINAL BLOCK, SCREW TYPE, 5.00
	Digi-Key PN	102-6145-ND
	digikey_id	{distributorPn:102-6145-ND,mfr:CUI Devices,mpn:TB002-500-02BE}

Object	Property Name	Property Value
1 : J23/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : J23/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	VM
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
P8 : P4	Name	P8
	ID	3560
	Reference	P4
	Designator	
	Part Reference	P4
	Value	CAN 2.0B transceiver
	Primitive	DEFAULT
	Implementation Type	Schematic View
	Implementation	CAN
	Implementation Path	
	PCB Footprint	

Object	Property Name	Property Value
CANH : P4/CANH	Name	CANH
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	CANH
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
CAN_RX : P4/CAN_RX	Name	CAN_RX
	Number	
	Swap Id	-1
	Type	Output
	Net Name	CAN_RX
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
CANL : P4/CANL	Name	CANL
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	CANL
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
CAN_LBK : P4/CAN_LBK	Name	CAN_LBK
	Number	
	Swap Id	-1
	Type	Input
	Net Name	CAN_LBK
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
CAN_TX : P4/CAN_TX	Name	CAN_TX
	Number	
	Swap Id	-1
	Type	Input
	Net Name	CAN_TX
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
P9 : P15	Name	P9
	ID	3640
	Reference	P15
	Designator	
	Part Reference	P15
	Value	PWM outputs
	Primitive	DEFAULT
	Implementation Type	Schematic View
	Implementation	Servo motor
	Implementation Path	
	PCB Footprint	

Object	Property Name	Property Value
SDA : P15/SDA	Name	SDA
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	ASDA2
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
VRC_PWM6L_BUF : P15/VRC_PWM6L_BUF	Name	VRC_PWM6L_BUF
	Number	
	Swap Id	-1
	Type	Output
	Net Name	RCDAC1
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
PWM6H_OUT : P15/PWM6H_OUT	Name	PWM6H_OUT
	Number	
	Swap Id	-1
	Type	Output
	Net Name	SERVO3
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
VRC_PWM6H_BUF : P15/VRC_PWM6H_BUF	Name	VRC_PWM6H_BUF
	Number	
	Swap Id	-1
	Type	Output
	Net Name	RCDAC2
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
SCL : P15/SCL	Name	SCL
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	ASCL2
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
PWM5H_IN : P15/PWM5H_IN	Name	PWM5H_IN
	Number	
	Swap Id	-1
	Type	Input
	Net Name	PWM5H
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
PWM6L_IN : P15/PWM6L_IN	Name	PWM6L_IN
	Number	
	Swap Id	-1
	Type	Input
	Net Name	PWM6L
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
PWM6H_IN : P15/PWM6H_IN	Name	PWM6H_IN
	Number	
	Swap Id	-1
	Type	Input
	Net Name	PWM6H
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
PWM6L_OUT : P15/PWM6L_OUT	Name	PWM6L_OUT
	Number	
	Swap Id	-1
	Type	Output
	Net Name	SERVO2
	Order	8
	Is No Connect	False

Object	Property Name	Property Value
PWM5H_OUT : P15/PWM5H_OUT	Name	PWM5H_OUT
	Number	
	Swap Id	-1
	Type	Output
	Net Name	SERVO1
	Order	9
	Is No Connect	False

Object	Property Name	Property Value
P7 : P5	Name	P7
	ID	3426
	Reference	P5
	Designator	
	Part Reference	P5
	Value	RS-485 transceiver
	Primitive	DEFAULT
	Implementation Type	Schematic View
	Implementation	RS-485
	Implementation Path	
	PCB Footprint	

Object	Property Name	Property Value
UART1_TX : P5/UART1_TX	Name	UART1_TX
	Number	
	Swap Id	-1
	Type	Input
	Net Name	UART1_TX
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
485_B : P5/485_B	Name	485_B
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	485_B
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
UART1_RTS : P5/UART1_RTS	Name	UART1_RTS
	Number	
	Swap Id	-1
	Type	Input
	Net Name	UART1_RTS
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
485_A : P5/485_A	Name	485_A
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	485_A
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
UART1_RX : P5/UART1_RX	Name	UART1_RX
	Number	
	Swap Id	-1
	Type	Output
	Net Name	UART1_RX
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
UART1_CTS : P5/UART1_CTS	Name	UART1_CTS
	Number	
	Swap Id	-1
	Type	Output
	Net Name	UART1_CTS
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
Line	Name	I998207
	Color	Default
	Start X-Coordinate	10
	Start Y-Coordinate	650
	End X-Coordinate	510
	End Y-Coordinate	650

Object	Property Name	Property Value
Capacitor are 0603 -20% 16V unless otherwise noted	Name	I998195
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	515
	Bounding Box Top	680
	Bounding Box Bottom	696
	Text	Capacitor are 0603 -20% 16V unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	680
	Font	Courier New

Object	Property Name	Property Value
Resistors are 0603 -1% 1/10W unless otherwise noted	Name	I998201
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	525
	Bounding Box Top	660
	Bounding Box Bottom	676
	Text	Resistors are 0603 -1% 1/10W unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	660
	Font	Courier New

Object	Property Name	Property Value
Place TVS as close as possible to AI connector	Name	I999574
	Color	Default
	Bounding Box Left	20
	Bounding Box Right	216
	Bounding Box Top	320
	Bounding Box Bottom	346
	Text	Place TVS as close as possible to AI connector
	Text Location X-Coordinate	20
	Text Location Y-Coordinate	320
	Font	Courier New

Object	Property Name	Property Value
TVS Bidir Vr = 10.2V Vbr = 11.4V	Name	I999650
	Color	Default
	Bounding Box Left	60
	Bounding Box Right	152
	Bounding Box Top	280
	Bounding Box Bottom	319
	Text	TVS Bidir Vr = 10.2V Vbr = 11.4V
	Text Location X-Coordinate	60
	Text Location Y-Coordinate	280
	Font	Courier New

Object	Property Name	Property Value
Analog input -10V 10 bits resolution	Name	I1081401
	Color	Default
	Bounding Box Left	800
	Bounding Box Right	948
	Bounding Box Top	10
	Bounding Box Bottom	36
	Text	Analog input -10V 10 bits resolution
	Text Location X-Coordinate	800
	Text Location Y-Coordinate	10
	Font	Courier New

Object	Property Name	Property Value
	Name	I1093424
	Color	Default
	Bounding Box Left	9
	Bounding Box Right	237
Fs(max) = 1/(2*pi*1Meg*15pF) Fs(max) = 10.6kHz ~ 10.6kHz	Bounding Box Top	360
	Bounding Box Bottom	386
	Text	Fs(max) = 1/(2*pi*1Meg*15pF) Fs(max) = 10.6kHz ~ 10.6kHz
	Text Location X-Coordinate	9
	Text Location Y-Coordinate	360
	Font	Courier New

Object	Property Name	Property Value
N839560 : P10/N839560 (Wire ID = 839560 )	Color	Default
	Name	N839560

Object	Property Name	Property Value
N839560 : P10/N839560 (Wire ID = 839564 )	Color	Default
	Name	N839560

Object	Property Name	Property Value
N839560 : P10/N839560 (Wire ID = 839566 )	Color	Default
	Name	N839560

Object	Property Name	Property Value
N839560 : P10/N839560 (Wire ID = 839572 )	Color	Default
	Name	N839560

Object	Property Name	Property Value
N839560 : P10/N839560 (Wire ID = 839574 )	Color	Default
	Name	N839560

Object	Property Name	Property Value
ADCINx : P10/ADCINX (Wire ID = 839582 )	Color	Default
	Name	ADCINX

Object	Property Name	Property Value
ADCINx : P10/ADCINX (Wire ID = 839592 )	Color	Default
	Name	ADCINX

Object	Property Name	Property Value
N839602 : P10/N839602 (Wire ID = 839602 )	Color	Default
	Name	N839602

Object	Property Name	Property Value
N839602 : P10/N839602 (Wire ID = 839606 )	Color	Default
	Name	N839602

Object	Property Name	Property Value
N839602 : P10/N839602 (Wire ID = 839608 )	Color	Default
	Name	N839602

Object	Property Name	Property Value
N839602 : P10/N839602 (Wire ID = 839614 )	Color	Default
	Name	N839602

Object	Property Name	Property Value
N839602 : P10/N839602 (Wire ID = 839634 )	Color	Default
	Name	N839602

Object	Property Name	Property Value
N839644 : P10/N839644 (Wire ID = 839644 )	Color	Default
	Name	N839644

Object	Property Name	Property Value
N839644 : P10/N839644 (Wire ID = 839674 )	Color	Default
	Name	N839644

Object	Property Name	Property Value
N839644 : P10/N839644 (Wire ID = 839678 )	Color	Default
	Name	N839644

Object	Property Name	Property Value
N839644 : P10/N839644 (Wire ID = 839684 )	Color	Default
	Name	N839644

Object	Property Name	Property Value
N839644 : P10/N839644 (Wire ID = 839693 )	Color	Default
	Name	N839644

Object	Property Name	Property Value
N839644 : P10/N839644 (Wire ID = 839695 )	Color	Default
	Name	N839644

Object	Property Name	Property Value
AVDD_3V3 : P10/AVDD_3V3 (Wire ID = 839763 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P10/AVDD_3V3 (Wire ID = 839790 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
DGND : P10/DGND (Wire ID = 983868 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : P10/DGND (Wire ID = 983887 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
ADCINx : P10/ADCINX (Wire ID = 983898 )	Color	Default
	Name	ADCINX

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : P10/DGND (Wire ID = 989298 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : P10/DGND (Wire ID = 989306 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : P10/DGND (Wire ID = 989317 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
AVDD_3V3 : P10/AVDD_3V3 (Wire ID = 989551 )	Color	Default
	Name	AVDD_3V3

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
AVDD_3V3 : P10/AVDD_3V3 (Wire ID = 989565 )	Color	Default
	Name	AVDD_3V3

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
AVDD_3V3 : P10/AVDD_3V3 (Wire ID = 991263 )	Color	Default
	Name	AVDD_3V3

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
AVDD_3V3 : P10/AVDD_3V3 (Wire ID = 991267 )	Color	Default
	Name	AVDD_3V3

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
AVDD_3V3 : P10/AVDD_3V3 (Wire ID = 991271 )	Color	Default
	Name	AVDD_3V3

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : P10/DGND (Wire ID = 991333 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : P10/DGND (Wire ID = 991337 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P10/DGND (Wire ID = 991345 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P10/DGND (Wire ID = 991349 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
AVDD_3V3 : P10/AVDD_3V3 (Wire ID = 991486 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P10/AVDD_3V3 (Wire ID = 991490 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
VINx+ : P10/VINX+ (Wire ID = 991998 )	Color	Default
	Name	VINX+

Object	Property Name	Property Value
VINx- : P10/VINX- (Wire ID = 992002 )	Color	Default
	Name	VINX-

Object	Property Name	Property Value
DGND : P10/DGND (Wire ID = 992262 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
AVDD_3V3 : P10/AVDD_3V3 (Wire ID = 992433 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
1V65_REF : P10/1V65_REF (Wire ID = 992463 )	Color	Default
	Name	1V65_REF

Object	Property Name	Property Value
DGND : P10/DGND (Wire ID = 992529 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P10/DGND (Wire ID = 992533 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N992554 : P10/N992554 (Wire ID = 992554 )	Color	Default
	Name	N992554

Object	Property Name	Property Value
N992554 : P10/N992554 (Wire ID = 992562 )	Color	Default
	Name	N992554

Object	Property Name	Property Value
N992554 : P10/N992554 (Wire ID = 992566 )	Color	Default
	Name	N992554

Object	Property Name	Property Value
1V65_REF : P10/1V65_REF (Wire ID = 992711 )	Color	Default
	Name	1V65_REF

Object	Property Name	Property Value
1V65_REF : P10/1V65_REF (Wire ID = 992715 )	Color	Default
	Name	1V65_REF

Object	Property Name	Property Value
1V65_REF : P10/1V65_REF (Wire ID = 992782 )	Color	Default
	Name	1V65_REF

Object	Property Name	Property Value
DGND : P10/DGND (Wire ID = 993408 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
1V65_REF : P10/1V65_REF (Wire ID = 993455 )	Color	Default
	Name	1V65_REF

Object	Property Name	Property Value
VINx+ : P10/VINX+ (Wire ID = 999526 )	Color	Default
	Name	VINX+

Object	Property Name	Property Value
VINx+ : P10/VINX+ (Wire ID = 999530 )	Color	Default
	Name	VINX+

Object	Property Name	Property Value
VINx- : P10/VINX- (Wire ID = 999536 )	Color	Default
	Name	VINX-

Object	Property Name	Property Value
VINx- : P10/VINX- (Wire ID = 999540 )	Color	Default
	Name	VINX-

Object	Property Name	Property Value
ADCINx : P10/ADCINX (Wire ID = 1001285 )	Color	Default
	Name	ADCINX

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
ADCINx : P10/ADCINX (Wire ID = 1001287 )	Color	Default
	Name	ADCINX

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N839560 : P10/N839560 (Wire ID = 1001300 )	Color	Default
	Name	N839560

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N839560 : P10/N839560 (Wire ID = 1001306 )	Color	Default
	Name	N839560

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N839560 : P10/N839560 (Wire ID = 1002436 )	Color	Default
	Name	N839560

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N839560 : P10/N839560 (Wire ID = 1002440 )	Color	Default
	Name	N839560

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N839602 : P10/N839602 (Wire ID = 1002452 )	Color	Default
	Name	N839602

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N839602 : P10/N839602 (Wire ID = 1002456 )	Color	Default
	Name	N839602

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : P10/DGND (Wire ID = 1002987 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : P10/DGND (Wire ID = 1002991 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
AVDD_3V3 : P10/AVDD_3V3 (Wire ID = 1003299 )	Color	Default
	Name	AVDD_3V3

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : P10/DGND (Wire ID = 1003450 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
AVDD_3V3 : P10/AVDD_3V3 (Wire ID = 1003495 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
ADCINx : P10/ADCINX (Wire ID = 1003537 )	Color	Default
	Name	ADCINX

Object	Property Name	Property Value
ADCINx : P10/ADCINX (Wire ID = 1079650 )	Color	Default
	Name	ADCINX

Object	Property Name	Property Value
N839602 : P10/N839602 (Wire ID = 1079735 )	Color	Default
	Name	N839602

Object	Property Name	Property Value
N839644 : P10/N839644 (Wire ID = 1079774 )	Color	Default
	Name	N839644

Object	Property Name	Property Value
AVDD_3V3	Name	AVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
AVDD_3V3	Name	AVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
AVDD_3V3	Name	AVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
ADCINx : P10/ADCINx	Name	ADCINx
	Number	
	Swap Id	-1
	Type	Output
	Net Name	AIN_AN14
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
VINx+ : P10/VINx+	Name	VINx+
	Number	
	Swap Id	-1
	Type	Input
	Net Name	AN14_V+
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
VINx- : P10/VINx-	Name	VINx-
	Number	
	Swap Id	-1
	Type	Input
	Net Name	AN14_V-
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
TitleBlockIntellitrol : P10/TitleBlockIntellitrol	Schematic Page Count	4
	Schematic Page Number	1
	Page Number	2
	Page Count	21
	Path Name	P10/TitleBlockIntellitrol
	Schematic Path	/P10
	ID	8902
	Doc	
	RevCode	0B
	Cage Code	
	Title	Analog input -10V
	OrgName	Jean-Francois Bilodeau, B.E.Eng
	OrgAddr1	CPI/CEP #6022173
	OrgAddr2	925 Chemin ste-foy apt4, QC, CANADA
	OrgAddr3	
	OrgAddr4	
	Name	TitleBlockIntellitrol
	Design Name	DSPEAK-V1_00-0B
	Design File Name	C:\USERS\JEANF\Desktop\GIT\DSPEAK\HARDWA
	Design Create Date	Friday, November 13, 2020
	Design Modify Date	Thursday, March 25, 2021
	Design Create Time	18:59:24
	Design Modify Time	19:51:15
	Schematic Name	ANALOG INPUT -10V
	Schematic Create Date	Saturday, November 21, 2020
	Schematic Modify Date	Thursday, March 25, 2021
	Schematic Create Time	11:56:56
	Schematic Modify Time	18:37:30
	Page Size	A
	Page Create Date	Saturday, November 21, 2020
	Page Modify Date	Thursday, March 25, 2021
	Page Create Time	10:19:16
	Page Modify Time	18:37:29
	Color	Default
	Source Library	C:\USERS\JEANF\GOOGLE DRIVE\ORCAD16LIB\PIECE\PART.OLB
	Source Symbol	TitleBlockIntellitrol
	Page Name	ANALOG INPUTS -10V

Object	Property Name	Property Value
INS1002418 : P10/C25	Name	INS1002418
	ID	8151
	Reference	C25
	Designator	
	Part Reference	C25
	Value	15pF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:1276-2189-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10C150JB81PNC}
	Digi-Key PN	1276-2189-1-ND
	Description	CAP CER 15PF 50V C0G/NP0 0603
	Manufacturer PN	CL10C150JB81PNC
	Manufacturer	Samsung Electro-Mechanics
	PCB Footprint	0603_cap_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P10/C25/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N839560
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P10/C25/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N839602
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS991309 : P10/C30	Name	INS991309
	ID	4516
	Reference	C30
	Designator	
	Part Reference	C30
	Value	1nF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	AVX Corporation
	Manufacturer PN	06035C102KAT2A
	Description	CAP CER 1000PF 50V X7R 0603
	Digi-Key PN	478-1215-1-ND
	digikey_id	{distributorPn:478-1215-1-ND,mfr:AVX Corporation,mpn:06035C102KAT2A,uln:
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P10/C30/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P10/C30/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1079586 : P10/TP1	Name	INS1079586
	ID	8599
	Reference	TP1
	Designator	
	Part Reference	TP1
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P10/TP1/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N839560
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS839512 : P10/R31	Name	INS839512
	ID	4497
	Reference	R31
	Designator	
	Part Reference	R31
	Value	165k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	digikey_id	{distributorPn:311-165KHRCT-ND,mfr:Yageo,mpn:RC0603FR-07165KL,ul:uic}
	Digi-Key PN	311-165KHRCT-ND
	Description	RES SMD 165K OHM 1% 1/10W 0603
	Manufacturer PN	RC0603FR-07165KL
	Manufacturer	Yageo

Object	Property Name	Property Value
1 : P10/R31/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N839560
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P10/R31/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	ADCINx
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS989204 : P10/C28	Name	INS989204
	ID	4461
	Reference	C28
	Designator	
	Part Reference	C28
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P10/C28/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P10/C28/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1079715 : P10/TP3	Name	INS1079715
	ID	8623
	Reference	TP3
	Designator	
	Part Reference	TP3
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P10/TP3/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N839602
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS989222 : P10/C26	Name	INS989222
	ID	4464
	Reference	C26
	Designator	
	Part Reference	C26
	Value	1nF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	AVX Corporation
	Manufacturer PN	06035C102KAT2A
	Description	CAP CER 1000PF 50V X7R 0603
	Digi-Key PN	478-1215-1-ND
	digikey_id	{distributorPn:478-1215-1-ND,mfr:AVX Corporation,mpn:06035C102KAT2A,ul:
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P10/C26/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P10/C26/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS839542 : P10/R32	Name	INS839542
	ID	4485
	Reference	R32
	Designator	
	Part Reference	R32
	Value	165k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:311-165KHRCT-ND,mfr:Yageo,mpn:RC0603FR-07165KL,ui:165k}
	Digi-Key PN	311-165KHRCT-ND
	Description	RES SMD 165K OHM 1% 1/10W 0603
	Manufacturer PN	RC0603FR-07165KL
	Manufacturer	Yageo
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P10/R32/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N839602
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P10/R32/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N839644
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1079630 : P10/TP2	Name	INS1079630
	ID	8607
	Reference	TP2
	Designator	
	Part Reference	TP2
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P10/TP2/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	ADCINx
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS839452 : P10/R29	Name	INS839452
	ID	4467
	Reference	R29
	Designator	
	Part Reference	R29
	Value	1Meg
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:RMCF0603FT1M00CT-ND,mfr:Stackpole Electronics Inc,mpn:R
	Digi-Key PN	RMCF0603FT1M00CT-ND
	Description	RES 1M OHM 1% 1/10W 0603
	Manufacturer PN	RMCF0603FT1M00
	Manufacturer	Stackpole Electronics Inc
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P10/R29/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	VINx+
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P10/R29/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N839560
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS992370 : P10/R35	Name	INS992370
	ID	4482
	Reference	R35
	Designator	
	Part Reference	R35
	Value	1k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-071KL
	Description	RES SMD 1K OHM 1% 1/10W 0603
	Digi-Key PN	311-1.00KHRCT-ND
	digikey_id	{distributorPn:311-1.00KHRCT-ND,mfr:Yageo,mpn:RC0603FR-071KL,ul:{uid:992370}}

Object	Property Name	Property Value
1 : P10/R35/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	1V65_REF
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P10/R35/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS120 : P10/U12	Name	INS120
	ID	4476
	Reference	U12
	Designator	
	Part Reference	U12
	Value	TLV333
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:296-43777-1-ND,mfr:Texas Instruments,mpn:TLV333IDBVR,ul:
	Digi-Key PN	296-43777-1-ND
	Description	IC OPAMP ZER-DRIFT 1CIRC SOT23-5
	Manufacturer PN	TLV333IDBVR
	Manufacturer	Texas Instruments
	PCB Footprint	sot23-5

Object	Property Name	Property Value
OUT : P10/U12/OUT	Name	OUT
	Number	1
	Swap Id	-1
	Type	Power
	Net Name	N839644
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
V- : P10/U12/V-	Name	V-
	Number	2
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
IN+ : P10/U12/IN+	Name	IN+
	Number	3
	Swap Id	-1
	Type	Input
	Net Name	1V65_REF
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
IN- : P10/U12/IN-	Name	IN-
	Number	4
	Swap Id	-1
	Type	Input
	Net Name	N839644
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
V+ : P10/U12/V+	Name	V+
	Number	5
	Swap Id	-1
	Type	Power
	Net Name	AVDD_3V3
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
INS992479 : P10/R33	Name	INS992479
	ID	4503
	Reference	R33
	Designator	
	Part Reference	R33
	Value	9k76
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	digikey_id	{distributorPn:311-9.76KHRCT-ND,mfr:Yageo,mpn:RC0603FR-079K76L,ul:(u)
	Digi-Key PN	311-9.76KHRCT-ND
	Description	RES SMD 9.76K OHM 1% 1/10W 0603
	Manufacturer PN	RC0603FR-079K76L
	Manufacturer	Yageo

Object	Property Name	Property Value
1 : P10/R33/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N992554
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P10/R33/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	1V65_REF
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1001267 : P10/C27	Name	INS1001267
	ID	8018
	Reference	C27
	Designator	
	Part Reference	C27
	Value	22pF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Manufacturer	AVX Corporation
	Manufacturer PN	06035A220JAT2A
	Description	CAP CER 22PF 50V C0G/NP0 0603
	Digi-Key PN	478-1167-1-ND
	digikey_id	{distributorPn:478-1167-1-ND,mfr:AVX Corporation,mgn:06035A220JAT2A,ul:
	PCB Footprint	0603_cap_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P10/C27/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N839560
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P10/C27/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	ADCINx
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1079754 : P10/TP4	Name	INS1079754
	ID	8631
	Reference	TP4
	Designator	
	Part Reference	TP4
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P10/TP4/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N839644
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS999461 : P10/D17	Name	INS999461
	ID	7293
	Reference	D17
	Designator	
	Part Reference	D17
	Value	P6SMB12CA
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	DO-214AA
	Manufacturer	Bourns Inc.
	Manufacturer PN	P6SMB12CA
	Description	TVS DIODE 10.2V 16.7V DO214AA
	Digi-Key PN	P6SMB12CABBCT-ND
	digikey_id	{distributorPn:P6SMB12CABBCT-ND,mfr:Bourns Inc.,nPn:P6SMB12CA}
	Distributor PN	
	Distributor	
	Filename	

Object	Property Name	Property Value
1 : P10/D17/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	VINx-
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P10/D17/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	VINx+
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS839482 : P10/R30	Name	INS839482
	ID	4519
	Reference	R30
	Designator	
	Part Reference	R30
	Value	1Meg
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:RMCF0603FT1M00CT-ND,mfr:Stackpole Electronics Inc,mpn:R
	Digi-Key PN	RMCF0603FT1M00CT-ND
	Description	RES 1M OHM 1% 1/10W 0603
	Manufacturer PN	RMCF0603FT1M00
	Manufacturer	Stackpole Electronics Inc
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P10/R30/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	VINx-
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P10/R30/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N839602
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1002672 : P10/U11	Name	INS1002672
	ID	8169
	Reference	U11
	Designator	
	Part Reference	U11
	Value	TLV333
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:296-43777-1-ND,mfr:Texas Instruments,mpn:TLV333IDBVR,ul:
	Digi-Key PN	296-43777-1-ND
	Description	IC OPAMP ZER-DRIFT 1CIRC SOT23-5
	Manufacturer PN	TLV333IDBVR
	Manufacturer	Texas Instruments
	PCB Footprint	sot23-5
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
OUT : P10/U11/OUT	Name	OUT
	Number	1
	Swap Id	-1
	Type	Power
	Net Name	ADCINx
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
V- : P10/U11/V-	Name	V-
	Number	2
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
IN+ : P10/U11/IN+	Name	IN+
	Number	3
	Swap Id	-1
	Type	Input
	Net Name	N839602
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
IN- : P10/U11/IN-	Name	IN-
	Number	4
	Swap Id	-1
	Type	Input
	Net Name	N839560
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
V+ : P10/U11/V+	Name	V+
	Number	5
	Swap Id	-1
	Type	Power
	Net Name	AVDD_3V3
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
INS991291 : P10/C29	Name	INS991291
	ID	4513
	Reference	C29
	Designator	
	Part Reference	C29
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P10/C29/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P10/C29/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS992509 : P10/R34	Name	INS992509
	ID	4488
	Reference	R34
	Designator	
	Part Reference	R34
	Value	3k3
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:RMCF0603FT3K30CT-ND,mfr:Stackpole Electronics Inc,mpn:RMCF0603FT3K30CT-ND}
	Digi-Key PN	RMCF0603FT3K30CT-ND
	Description	RES 3.3K OHM 1% 1/10W 0603
	Manufacturer PN	RMCF0603FT3K30CT-ND
	Manufacturer	Stackpole Electronics Inc
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P10/R34/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P10/R34/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N992554
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS992092 : P10/D18	Name	INS992092
	ID	4509
	Reference	D18
	Designator	
	Part Reference	D18
	Value	LM4041
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	sot23-3
	Manufacturer	Texas Instruments
	Manufacturer PN	LM4041CIM3-ADJ/NOPB
	Description	IC VREF SHUNT 10V 0.5% SOT23-3
	Digi-Key PN	LM4041CIM3-ADJ/NOPBCT-ND
	digikey_id	{distributorPn:LM4041CIM3-ADJ/NOPBCT-ND,mfr:Texas Instruments,mpn:LM4041CIM3-ADJ/NOPB}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
FB : P10/D18/FB	Name	FB
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N992554
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
C : P10/D18/C	Name	C
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	1V65_REF
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
A : P10/D18/A	Name	A
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
Line	Name	I998207
	Color	Default
	Start X-Coordinate	10
	Start Y-Coordinate	650
	End X-Coordinate	510
	End Y-Coordinate	650

Object	Property Name	Property Value
Capacitor are 0603 -20% 16V unless otherwise noted	Name	I998195
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	515
	Bounding Box Top	680
	Bounding Box Bottom	696
	Text	Capacitor are 0603 -20% 16V unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	680
	Font	Courier New

Object	Property Name	Property Value
Resistors are 0603 -1% 1/10W unless otherwise noted	Name	I998201
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	525
	Bounding Box Top	660
	Bounding Box Bottom	676
	Text	Resistors are 0603 -1% 1/10W unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	660
	Font	Courier New

Object	Property Name	Property Value
Place TVS as close as possible to AI connector	Name	I999574
	Color	Default
	Bounding Box Left	20
	Bounding Box Right	216
	Bounding Box Top	320
	Bounding Box Bottom	346
	Text	Place TVS as close as possible to AI connector
	Text Location X-Coordinate	20
	Text Location Y-Coordinate	320
	Font	Courier New

Object	Property Name	Property Value
TVS Bidir Vr = 10.2V Vbr = 11.4V	Name	I999650
	Color	Default
	Bounding Box Left	60
	Bounding Box Right	152
	Bounding Box Top	280
	Bounding Box Bottom	319
	Text	TVS Bidir Vr = 10.2V Vbr = 11.4V
	Text Location X-Coordinate	60
	Text Location Y-Coordinate	280
	Font	Courier New

Object	Property Name	Property Value
Analog input -10V 10 bits resolution	Name	I1081401
	Color	Default
	Bounding Box Left	800
	Bounding Box Right	948
	Bounding Box Top	10
	Bounding Box Bottom	36
	Text	Analog input -10V 10 bits resolution
	Text Location X-Coordinate	800
	Text Location Y-Coordinate	10
	Font	Courier New

Object	Property Name	Property Value
Fs(max) = 1/(2*pi*1Meg*15pF) Fs(max) = 10.6kHz ~ 10k	Name	I1093424
	Color	Default
	Bounding Box Left	9
	Bounding Box Right	237
	Bounding Box Top	360
	Bounding Box Bottom	386
	Text	Fs(max) = 1/(2*pi*1Meg*15pF) Fs(max) = 10.6kHz ~ 10k
	Text Location X-Coordinate	9
	Text Location Y-Coordinate	360
	Font	Courier New

Object	Property Name	Property Value
N839560 : P11/N839560 (Wire ID = 839560 )	Color	Default
N839560 : P11/N839560 (Wire ID = 839560 )	Name	N839560

Object	Property Name	Property Value
N839560 : P11/N839560 (Wire ID = 839564 )	Color	Default
N839560 : P11/N839560 (Wire ID = 839564 )	Name	N839560

Object	Property Name	Property Value
N839560 : P11/N839560 (Wire ID = 839566 )	Color	Default
N839560 : P11/N839560 (Wire ID = 839566 )	Name	N839560

Object	Property Name	Property Value
N839560 : P11/N839560 (Wire ID = 839572 )	Color	Default
N839560 : P11/N839560 (Wire ID = 839572 )	Name	N839560

Object	Property Name	Property Value
N839560 : P11/N839560 (Wire ID = 839574 )	Color	Default
	Name	N839560

Object	Property Name	Property Value
ADCINx : P11/ADCINX (Wire ID = 839582 )	Color	Default
	Name	ADCINX

Object	Property Name	Property Value
ADCINx : P11/ADCINX (Wire ID = 839592 )	Color	Default
	Name	ADCINX

Object	Property Name	Property Value
N839602 : P11/N839602 (Wire ID = 839602 )	Color	Default
	Name	N839602

Object	Property Name	Property Value
N839602 : P11/N839602 (Wire ID = 839606 )	Color	Default
	Name	N839602

Object	Property Name	Property Value
N839602 : P11/N839602 (Wire ID = 839608 )	Color	Default
	Name	N839602

Object	Property Name	Property Value
N839602 : P11/N839602 (Wire ID = 839614 )	Color	Default
	Name	N839602

Object	Property Name	Property Value
N839602 : P11/N839602 (Wire ID = 839634 )	Color	Default
	Name	N839602

Object	Property Name	Property Value
N839644 : P11/N839644 (Wire ID = 839644 )	Color	Default
	Name	N839644

Object	Property Name	Property Value
N839644 : P11/N839644 (Wire ID = 839674 )	Color	Default
	Name	N839644

Object	Property Name	Property Value
N839644 : P11/N839644 (Wire ID = 839678 )	Color	Default
	Name	N839644

Object	Property Name	Property Value
N839644 : P11/N839644 (Wire ID = 839684 )	Color	Default
	Name	N839644

Object	Property Name	Property Value
N839644 : P11/N839644 (Wire ID = 839693 )	Color	Default
	Name	N839644

Object	Property Name	Property Value
N839644 : P11/N839644 (Wire ID = 839695 )	Color	Default
	Name	N839644

Object	Property Name	Property Value
AVDD_3V3 : P11/AVDD_3V3 (Wire ID = 839763 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P11/AVDD_3V3 (Wire ID = 839790 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
DGND : P11/DGND (Wire ID = 983868 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P11/DGND (Wire ID = 983887 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
ADCINx : P11/ADCINX (Wire ID = 983898 )	Color	Default
	Name	ADCINX

Object	Property Name	Property Value
DGND : P11/DGND (Wire ID = 989298 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P11/DGND (Wire ID = 989306 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P11/DGND (Wire ID = 989317 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
AVDD_3V3 : P11/AVDD_3V3 (Wire ID = 989551 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P11/AVDD_3V3 (Wire ID = 989565 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P11/AVDD_3V3 (Wire ID = 991263 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P11/AVDD_3V3 (Wire ID = 991267 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P11/AVDD_3V3 (Wire ID = 991271 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
DGND : P11/DGND (Wire ID = 991333 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P11/DGND (Wire ID = 991337 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P11/DGND (Wire ID = 991345 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P11/DGND (Wire ID = 991349 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
AVDD_3V3 : P11/AVDD_3V3 (Wire ID = 991486 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P11/AVDD_3V3 (Wire ID = 991490 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
VINx+ : P11/VINX+ (Wire ID = 991998 )	Color	Default
	Name	VINX+

Object	Property Name	Property Value
VINx- : P11/VINX- (Wire ID = 992002 )	Color	Default
	Name	VINX-

Object	Property Name	Property Value
DGND : P11/DGND (Wire ID = 992262 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
AVDD_3V3 : P11/AVDD_3V3 (Wire ID = 992433 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
1V65_REF : P11/1V65_REF (Wire ID = 992463 )	Color	Default
	Name	1V65_REF

Object	Property Name	Property Value
DGND : P11/DGND (Wire ID = 992529 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P11/DGND (Wire ID = 992533 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N992554 : P11/N992554 (Wire ID = 992554 )	Color	Default
	Name	N992554

Object	Property Name	Property Value
N992554 : P11/N992554 (Wire ID = 992562 )	Color	Default
	Name	N992554

Object	Property Name	Property Value
N992554 : P11/N992554 (Wire ID = 992566 )	Color	Default
	Name	N992554

Object	Property Name	Property Value
1V65_REF : P11/1V65_REF (Wire ID = 992711 )	Color	Default
	Name	1V65_REF

Object	Property Name	Property Value
1V65_REF : P11/1V65_REF (Wire ID = 992715 )	Color	Default
	Name	1V65_REF

Object	Property Name	Property Value
1V65_REF : P11/1V65_REF (Wire ID = 992782 )	Color	Default
	Name	1V65_REF

Object	Property Name	Property Value
DGND : P11/DGND (Wire ID = 993408 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
1V65_REF : P11/1V65_REF (Wire ID = 993455 )	Color	Default
	Name	1V65_REF

Object	Property Name	Property Value
VINx+ : P11/VINX+ (Wire ID = 999526 )	Color	Default
	Name	VINX+

Object	Property Name	Property Value
VINx+ : P11/VINX+ (Wire ID = 999530 )	Color	Default
	Name	VINX+

Object	Property Name	Property Value
VINx- : P11/VINX- (Wire ID = 999536 )	Color	Default
	Name	VINX-

Object	Property Name	Property Value
VINx- : P11/VINX- (Wire ID = 999540 )	Color	Default
	Name	VINX-

Object	Property Name	Property Value
ADCINx : P11/ADCINX (Wire ID = 1001285 )	Color	Default
	Name	ADCINX

Object	Property Name	Property Value
ADCINx : P11/ADCINX (Wire ID = 1001287 )	Color	Default
	Name	ADCINX

Object	Property Name	Property Value
N839560 : P11/N839560 (Wire ID = 1001300 )	Color	Default
	Name	N839560

Object	Property Name	Property Value
N839560 : P11/N839560 (Wire ID = 1001306 )	Color	Default
	Name	N839560

Object	Property Name	Property Value
N839560 : P11/N839560 (Wire ID = 1002436 )	Color	Default
	Name	N839560

Object	Property Name	Property Value
N839560 : P11/N839560 (Wire ID = 1002440 )	Color	Default
	Name	N839560

Object	Property Name	Property Value
N839602 : P11/N839602 (Wire ID = 1002452 )	Color	Default
	Name	N839602

Object	Property Name	Property Value
N839602 : P11/N839602 (Wire ID = 1002456 )	Color	Default
	Name	N839602

Object	Property Name	Property Value
DGND : P11/DGND (Wire ID = 1002987 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P11/DGND (Wire ID = 1002991 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
AVDD_3V3 : P11/AVDD_3V3 (Wire ID = 1003299 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
DGND : P11/DGND (Wire ID = 1003450 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
AVDD_3V3 : P11/AVDD_3V3 (Wire ID = 1003495 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
ADCINx : P11/ADCINX (Wire ID = 1003537 )	Color	Default
	Name	ADCINX

Object	Property Name	Property Value
ADCINx : P11/ADCINX (Wire ID = 1079650 )	Color	Default
	Name	ADCINX

Object	Property Name	Property Value
N839602 : P11/N839602 (Wire ID = 1079735 )	Color	Default
	Name	N839602

Object	Property Name	Property Value
N839644 : P11/N839644 (Wire ID = 1079774 )	Color	Default
	Name	N839644

Object	Property Name	Property Value
AVDD_3V3	Name	AVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
AVDD_3V3	Name	AVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
AVDD_3V3	Name	AVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
ADCINx : P11/ADCINx	Name	ADCINx
	Number	
	Swap Id	-1
	Type	Output
	Net Name	AIN_AN15
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
VINx+ : P11/VINx+	Name	VINx+
	Number	
	Swap Id	-1
	Type	Input
	Net Name	AN15_V+
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
VINx- : P11/VINx-	Name	VINx-
	Number	
	Swap Id	-1
	Type	Input
	Net Name	AN15_V-
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
TitleBlockIntellitrol : P11/TitleBlockIntellitrol	Schematic Page Count	4
	Schematic Page Number	2
	Page Number	3
	Page Count	21
	Path Name	P11/TitleBlockIntellitrol
	Schematic Path	/P11
	ID	8900
	Doc	
	RevCode	0B
	Cage Code	
	Title	Analog input -10V
	OrgName	Jean-Francois Bilodeau, B.E.Eng
	OrgAddr1	CPI/CEP #6022173
	OrgAddr2	925 Chemin ste-foy apt4, QC, CANADA
	OrgAddr3	
	OrgAddr4	
	Name	TitleBlockIntellitrol
	Design Name	DSPEAK-V1_00-0B
	Design File Name	C:\USERS\JEANF\DESKTOP\GIT\DSPEAK\HARDWA
	Design Create Date	RE\V1_00-0B\CAPTURE Friday, November 13, 2020
	Design Modify Date	Thursday, March 25, 2021
	Design Create Time	18:59:24
	Design Modify Time	19:51:15
	Schematic Name	ANALOG INPUT -10V
	Schematic Create Date	Saturday, November 21, 2020
	Schematic Modify Date	Thursday, March 25, 2021
	Schematic Create Time	11:56:56
	Schematic Modify Time	18:37:30
	Page Size	A
	Page Create Date	Saturday, November 21, 2020
	Page Modify Date	Thursday, March 25, 2021
	Page Create Time	10:19:16
	Page Modify Time	18:37:29
	Color	Default
	Source Library	C:\USERS\JEANF\GOOGLE DRIVE\ORCAD16LIB\PIECE\PART.OLB
	Source Symbol	TitleBlockIntellitrol
	Page Name	ANALOG INPUTS -10V

Object	Property Name	Property Value
INS1002418 : P11/C31	Name	INS1002418
	ID	8145
	Reference	C31
	Designator	
	Part Reference	C31
	Value	15pF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:1276-2189-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10C1}
	Digi-Key PN	1276-2189-1-ND
	Description	CAP CER 15PF 50V C0G/NP0 0603
	Manufacturer PN	CL10C150JB81PNC
	Manufacturer	Samsung Electro-Mechanics
	PCB Footprint	0603_cap_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P11/C31/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N839560
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P11/C31/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N839602
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS991309 : P11/C36	Name	INS991309
	ID	4604
	Reference	C36
	Designator	
	Part Reference	C36
	Value	1nF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	AVX Corporation
	Manufacturer PN	06035C102KAT2A
	Description	CAP CER 1000PF 50V X7R 0603
	Digi-Key PN	478-1215-1-ND
	digikey_id	{distributorPn:478-1215-1-ND,mfr:AVX Corporation,mpn:06035C102KAT2A,u}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P11/C36/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P11/C36/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1079586 : P11/TP5	Name	INS1079586
	ID	8595
	Reference	TP5
	Designator	
	Part Reference	TP5
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P11/TP5/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N839560
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS839512 : P11/R38	Name	INS839512
	ID	4585
	Reference	R38
	Designator	
	Part Reference	R38
	Value	165k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	digikey_id	{distributorPn:311-165KHRCT-ND,mfr:Yageo,mpn:RC0603FR-07165KL,ul:165k}
	Digi-Key PN	311-165KHRCT-ND
	Description	RES SMD 165K OHM 1% 1/10W 0603
	Manufacturer PN	RC0603FR-07165KL
	Manufacturer	Yageo

Object	Property Name	Property Value
1 : P11/R38/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N839560
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P11/R38/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	ADCINx
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS989204 : P11/C34	Name	INS989204
	ID	4549
	Reference	C34
	Designator	
	Part Reference	C34
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P11/C34/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P11/C34/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1079715 : P11/TP7	Name	INS1079715
	ID	8619
	Reference	TP7
	Designator	
	Part Reference	TP7
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P11/TP7/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N839602
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS989222 : P11/C32	Name	INS989222
	ID	4552
	Reference	C32
	Designator	
	Part Reference	C32
	Value	1nF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	AVX Corporation
	Manufacturer PN	06035C102KAT2A
	Description	CAP CER 1000PF 50V X7R 0603
	Digi-Key PN	478-1215-1-ND
	digikey_id	{distributorPn:478-1215-1-ND,mfr:AVX Corporation,mpn:06035C102KAT2A,ul:(uid:06035C102KAT2A,ui)}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P11/C32/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P11/C32/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS839542 : P11/R39	Name	INS839542
	ID	4573
	Reference	R39
	Designator	
	Part Reference	R39
	Value	165k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:311-165KHRCT-ND,mfr:Yageo,mpn:RC0603FR-07165KL,ul:(uid:0603FR-07165KL,ui)}
	Digi-Key PN	311-165KHRCT-ND
	Description	RES SMD 165K OHM 1% 1/10W 0603
	Manufacturer PN	RC0603FR-07165KL
	Manufacturer	Yageo
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P11/R39/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N839602
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P11/R39/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N839644
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1079630 : P11/TP6	Name	INS1079630
	ID	8603
	Reference	TP6
	Designator	
	Part Reference	TP6
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P11/TP6/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	ADCINx
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS839452 : P11/R36	Name	INS839452
	ID	4555
	Reference	R36
	Designator	
	Part Reference	R36
	Value	1Meg
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:RMCF0603FT1M00CT-ND,mfr:Stackpole Electronics Inc,mpn:R
	Digi-Key PN	RMCF0603FT1M00CT-ND
	Description	RES 1M OHM 1% 1/10W 0603
	Manufacturer PN	RMCF0603FT1M00
	Manufacturer	Stackpole Electronics Inc
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P11/R36/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	VINx+
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P11/R36/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N839560
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS992370 : P11/R42	Name	INS992370
	ID	4570
	Reference	R42
	Designator	
	Part Reference	R42
	Value	1k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-071KL
	Description	RES SMD 1K OHM 1% 1/10W 0603
	Digi-Key PN	311-1.00KHRCT-ND
	digikey_id	{distributorPn:311-1.00KHRCT-ND,mfr:Yageo,mpn:RC0603FR-071KL,ul:{uid:R

Object	Property Name	Property Value
1 : P11/R42/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	1V65_REF
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P11/R42/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS120 : P11/U14	Name	INS120
	ID	4564
	Reference	U14
	Designator	
	Part Reference	U14
	Value	TLV333
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:296-43777-1-ND,mfr:Texas Instruments,mpn:TLV333IDBVR,ul:
	Digi-Key PN	296-43777-1-ND
	Description	IC OPAMP ZER-DRIFT 1CIRC SOT23-5
	Manufacturer PN	TLV333IDBVR
	Manufacturer	Texas Instruments
	PCB Footprint	sot23-5

Object	Property Name	Property Value
OUT : P11/U14/OUT	Name	OUT
	Number	1
	Swap Id	-1
	Type	Power
	Net Name	N839644
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
V- : P11/U14/V-	Name	V-
	Number	2
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
IN+ : P11/U14/IN+	Name	IN+
	Number	3
	Swap Id	-1
	Type	Input
	Net Name	1V65_REF
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
IN- : P11/U14/IN-	Name	IN-
	Number	4
	Swap Id	-1
	Type	Input
	Net Name	N839644
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
V+ : P11/U14/V+	Name	V+
	Number	5
	Swap Id	-1
	Type	Power
	Net Name	AVDD_3V3
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
INS992479 : P11/R40	Name	INS992479
	ID	4591
	Reference	R40
	Designator	
	Part Reference	R40
	Value	9k76
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	digikey_id	{distributorPn:311-9.76KHZCT-ND,mfr:Yageo,mpn:RC0603FR-079K76L,ul:(u
	Digi-Key PN	311-9.76KHZCT-ND
	Description	RES SMD 9.76K OHM 1% 1/10W 0603
	Manufacturer PN	RC0603FR-079K76L
	Manufacturer	Yageo

Object	Property Name	Property Value
1 : P11/R40/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N992554
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P11/R40/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	1V65_REF
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1001267 : P11/C33	Name	INS1001267
	ID	8012
	Reference	C33
	Designator	
	Part Reference	C33
	Value	22pF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Manufacturer	AVX Corporation
	Manufacturer PN	06035A220JAT2A
	Description	CAP CER 22PF 50V C0G/NP0 0603
	Digi-Key PN	478-1167-1-ND
	digikey_id	{distributorPn:478-1167-1-ND,mfr:AVX Corporation,mpn:06035A220JAT2A,ul:
	PCB Footprint	0603_cap_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P11/C33/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N839560
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P11/C33/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	ADCINx
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1079754 : P11/TP8	Name	INS1079754
	ID	8627
	Reference	TP8
	Designator	
	Part Reference	TP8
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P11/TP8/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N839644
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS999461 : P11/D19	Name	INS999461
	ID	7287
	Reference	D19
	Designator	
	Part Reference	D19
	Value	P6SMB12CA
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	DO-214AA
	Manufacturer	Bourns Inc.
	Manufacturer PN	P6SMB12CA
	Description	TVS DIODE 10.2V 16.7V DO214AA
	Digi-Key PN	P6SMB12CABBCT-ND
	digikey_id	{distributorPn:P6SMB12CABBCT-ND,mfr:Bourns Inc.,pn:P6SMB12CA}
	Distributor PN	
	Distributor	
	Filename	

Object	Property Name	Property Value
1 : P11/D19/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	VINx-
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P11/D19/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	VINx+
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS839482 : P11/R37	Name	INS839482
	ID	4607
	Reference	R37
	Designator	
	Part Reference	R37
	Value	1Meg
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:RMCF0603FT1M00CT-ND,mfr:Stackpole Electronics Inc,mpn:R
	Digi-Key PN	RMCF0603FT1M00CT-ND
	Description	RES 1M OHM 1% 1/10W 0603
	Manufacturer PN	RMCF0603FT1M00
	Manufacturer	Stackpole Electronics Inc
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P11/R37/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	VINx-
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P11/R37/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N839602
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1002672 : P11/U13	Name	INS1002672
	ID	8157
	Reference	U13
	Designator	
	Part Reference	U13
	Value	TLV333
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:296-43777-1-ND,mfr:Texas Instruments,mpn:TLV333IDBVR,ul:
	Digi-Key PN	296-43777-1-ND
	Description	IC OPAMP ZER-DRIFT 1CIRC SOT23-5
	Manufacturer PN	TLV333IDBVR
	Manufacturer	Texas Instruments
	PCB Footprint	sot23-5
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
OUT : P11/U13/OUT	Name	OUT
	Number	1
	Swap Id	-1
	Type	Power
	Net Name	ADCINx
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
V- : P11/U13/V-	Name	V-
	Number	2
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
IN+ : P11/U13/IN+	Name	IN+
	Number	3
	Swap Id	-1
	Type	Input
	Net Name	N839602
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
IN- : P11/U13/IN-	Name	IN-
	Number	4
	Swap Id	-1
	Type	Input
	Net Name	N839560
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
V+ : P11/U13/V+	Name	V+
	Number	5
	Swap Id	-1
	Type	Power
	Net Name	AVDD_3V3
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
INS991291 : P11/C35	Name	INS991291
	ID	4601
	Reference	C35
	Designator	
	Part Reference	C35
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P11/C35/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P11/C35/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS992509 : P11/R41	Name	INS992509
	ID	4576
	Reference	R41
	Designator	
	Part Reference	R41
	Value	3k3
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:RMCF0603FT3K30CT-ND,mfr:Stackpole Electronics Inc,mpn:RMCF0603FT3K30CT-ND}
	Digi-Key PN	RMCF0603FT3K30CT-ND
	Description	RES 3.3K OHM 1% 1/10W 0603
	Manufacturer PN	RMCF0603FT3K30
	Manufacturer	Stackpole Electronics Inc
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P11/R41/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P11/R41/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N992554
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS992092 : P11/D20	Name	INS992092
	ID	4597
	Reference	D20
	Designator	
	Part Reference	D20
	Value	LM4041
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	sot23-3
	Manufacturer	Texas Instruments
	Manufacturer PN	LM4041CIM3-ADJ/NOPB
	Description	IC VREF SHUNT 10V 0.5% SOT23-3
	Digi-Key PN	LM4041CIM3-ADJ/NOPBCT-ND
	digikey_id	{distributorPn:LM4041CIM3-ADJ/NOPBCT-ND,mfr:Texas Instruments,mpn:LM4041CIM3-ADJ/NOPB}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
FB : P11/D20/FB	Name	FB
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N992554
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
C : P11/D20/C	Name	C
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	1V65_REF
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
A : P11/D20/A	Name	A
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
Line	Name	I998207
	Color	Default
	Start X-Coordinate	10
	Start Y-Coordinate	650
	End X-Coordinate	510
	End Y-Coordinate	650

Object	Property Name	Property Value
Capacitor are 0603 -20% 16V unless otherwise noted	Name	I998195
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	515
	Bounding Box Top	680
	Bounding Box Bottom	696
	Text	Capacitor are 0603 -20% 16V unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	680
	Font	Courier New

Object	Property Name	Property Value
Resistors are 0603 -1% 1/10W unless otherwise noted	Name	I998201
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	525
	Bounding Box Top	660
	Bounding Box Bottom	676
	Text	Resistors are 0603 -1% 1/10W unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	660
	Font	Courier New

Object	Property Name	Property Value
Place TVS as close as possible to AI connector	Name	I999574
	Color	Default
	Bounding Box Left	20
	Bounding Box Right	216
	Bounding Box Top	320
	Bounding Box Bottom	346
	Text	Place TVS as close as possible to AI connector
	Text Location X-Coordinate	20
	Text Location Y-Coordinate	320
	Font	Courier New

Object	Property Name	Property Value
TVS Bidir Vr = 10.2V Vbr = 11.4V	Name	I999650
	Color	Default
	Bounding Box Left	60
	Bounding Box Right	152
	Bounding Box Top	280
	Bounding Box Bottom	319
	Text	TVS Bidir Vr = 10.2V Vbr = 11.4V
	Text Location X-Coordinate	60
	Text Location Y-Coordinate	280
	Font	Courier New

Object	Property Name	Property Value
Analog input -10V 10 bits resolution	Name	I1081401
	Color	Default
	Bounding Box Left	800
	Bounding Box Right	948
	Bounding Box Top	10
	Bounding Box Bottom	36
	Text	Analog input -10V 10 bits resolution
	Text Location X-Coordinate	800
	Text Location Y-Coordinate	10
	Font	Courier New

Object	Property Name	Property Value
	Name	I1093424
	Color	Default
	Bounding Box Left	9
	Bounding Box Right	237
Fs(max) = 1/(2*pi*1Meg*15pF) Fs(max) = 10.6kHz ~ 10.6kHz	Bounding Box Top	360
	Bounding Box Bottom	386
	Text	Fs(max) = 1/(2*pi*1Meg*15pF) Fs(max) = 10.6kHz ~ 10.6kHz
	Text Location X-Coordinate	9
	Text Location Y-Coordinate	360
	Font	Courier New

Object	Property Name	Property Value
N839560 : P8/N839560 (Wire ID = 839560 )	Color	Default
	Name	N839560

Object	Property Name	Property Value
N839560 : P8/N839560 (Wire ID = 839564 )	Color	Default
	Name	N839560

Object	Property Name	Property Value
N839560 : P8/N839560 (Wire ID = 839566 )	Color	Default
	Name	N839560

Object	Property Name	Property Value
N839560 : P8/N839560 (Wire ID = 839572 )	Color	Default
	Name	N839560

Object	Property Name	Property Value
N839560 : P8/N839560 (Wire ID = 839574 )	Color	Default
	Name	N839560

Object	Property Name	Property Value
ADCINx : P8/ADCINX (Wire ID = 839582 )	Color	Default
	Name	ADCINX

Object	Property Name	Property Value
ADCINx : P8/ADCINX (Wire ID = 839592 )	Color	Default
	Name	ADCINX

Object	Property Name	Property Value
N839602 : P8/N839602 (Wire ID = 839602 )	Color	Default
	Name	N839602

Object	Property Name	Property Value
N839602 : P8/N839602 (Wire ID = 839606 )	Color	Default
	Name	N839602

Object	Property Name	Property Value
N839602 : P8/N839602 (Wire ID = 839608 )	Color	Default
	Name	N839602

Object	Property Name	Property Value
N839602 : P8/N839602 (Wire ID = 839614 )	Color	Default
	Name	N839602

Object	Property Name	Property Value
N839602 : P8/N839602 (Wire ID = 839634 )	Color	Default
	Name	N839602

Object	Property Name	Property Value
N839644 : P8/N839644 (Wire ID = 839644 )	Color	Default
	Name	N839644

Object	Property Name	Property Value
N839644 : P8/N839644 (Wire ID = 839674 )	Color	Default
	Name	N839644

Object	Property Name	Property Value
N839644 : P8/N839644 (Wire ID = 839678 )	Color	Default
	Name	N839644

Object	Property Name	Property Value
N839644 : P8/N839644 (Wire ID = 839684 )	Color	Default
	Name	N839644

Object	Property Name	Property Value
N839644 : P8/N839644 (Wire ID = 839693 )	Color	Default
	Name	N839644

Object	Property Name	Property Value
N839644 : P8/N839644 (Wire ID = 839695 )	Color	Default
	Name	N839644

Object	Property Name	Property Value
AVDD_3V3 : P8/AVDD_3V3 (Wire ID = 839763 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P8/AVDD_3V3 (Wire ID = 839790 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
DGND : P8/DGND (Wire ID = 983868 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P8/DGND (Wire ID = 983887 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
ADCINx : P8/ADCINX (Wire ID = 983898 )	Color	Default
	Name	ADCINX

Object	Property Name	Property Value
DGND : P8/DGND (Wire ID = 989298 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P8/DGND (Wire ID = 989306 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P8/DGND (Wire ID = 989317 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
AVDD_3V3 : P8/AVDD_3V3 (Wire ID = 989551 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P8/AVDD_3V3 (Wire ID = 989565 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P8/AVDD_3V3 (Wire ID = 991263 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P8/AVDD_3V3 (Wire ID = 991267 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P8/AVDD_3V3 (Wire ID = 991271 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
DGND : P8/DGND (Wire ID = 991333 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P8/DGND (Wire ID = 991337 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P8/DGND (Wire ID = 991345 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P8/DGND (Wire ID = 991349 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
AVDD_3V3 : P8/AVDD_3V3 (Wire ID = 991486 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P8/AVDD_3V3 (Wire ID = 991490 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
VINx+ : P8/VINX+ (Wire ID = 991998 )	Color	Default
	Name	VINX+

Object	Property Name	Property Value
VINx- : P8/VINX- (Wire ID = 992002 )	Color	Default
	Name	VINX-

Object	Property Name	Property Value
DGND : P8/DGND (Wire ID = 992262 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
AVDD_3V3 : P8/AVDD_3V3 (Wire ID = 992433 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
1V65_REF : P8/1V65_REF (Wire ID = 992463 )	Color	Default
	Name	1V65_REF

Object	Property Name	Property Value
DGND : P8/DGND (Wire ID = 992529 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P8/DGND (Wire ID = 992533 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N992554 : P8/N992554 (Wire ID = 992554 )	Color	Default
	Name	N992554

Object	Property Name	Property Value
N992554 : P8/N992554 (Wire ID = 992562 )	Color	Default
	Name	N992554

Object	Property Name	Property Value
N992554 : P8/N992554 (Wire ID = 992566 )	Color	Default
	Name	N992554

Object	Property Name	Property Value
1V65_REF : P8/1V65_REF (Wire ID = 992711 )	Color	Default
	Name	1V65_REF

Object	Property Name	Property Value
1V65_REF : P8/1V65_REF (Wire ID = 992715 )	Color	Default
	Name	1V65_REF

Object	Property Name	Property Value
1V65_REF : P8/1V65_REF (Wire ID = 992782 )	Color	Default
	Name	1V65_REF

Object	Property Name	Property Value
DGND : P8/DGND (Wire ID = 993408 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
1V65_REF : P8/1V65_REF (Wire ID = 993455 )	Color	Default
	Name	1V65_REF

Object	Property Name	Property Value
VINx+ : P8/VINX+ (Wire ID = 999526 )	Color	Default
	Name	VINX+

Object	Property Name	Property Value
VINx+ : P8/VINX+ (Wire ID = 999530 )	Color	Default
	Name	VINX+

Object	Property Name	Property Value
VINx- : P8/VINX- (Wire ID = 999536 )	Color	Default
	Name	VINX-

Object	Property Name	Property Value
VINx- : P8/VINX- (Wire ID = 999540 )	Color	Default
	Name	VINX-

Object	Property Name	Property Value
ADCINx : P8/ADCINX (Wire ID = 1001285 )	Color	Default
	Name	ADCINX

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
ADCINx : P8/ADCINX (Wire ID = 1001287 )	Color	Default
	Name	ADCINX

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N839560 : P8/N839560 (Wire ID = 1001300 )	Color	Default
	Name	N839560

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N839560 : P8/N839560 (Wire ID = 1001306 )	Color	Default
	Name	N839560

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N839560 : P8/N839560 (Wire ID = 1002436 )	Color	Default
	Name	N839560

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N839560 : P8/N839560 (Wire ID = 1002440 )	Color	Default
	Name	N839560

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N839602 : P8/N839602 (Wire ID = 1002452 )	Color	Default
	Name	N839602

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N839602 : P8/N839602 (Wire ID = 1002456 )	Color	Default
	Name	N839602

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : P8/DGND (Wire ID = 1002987 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : P8/DGND (Wire ID = 1002991 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
AVDD_3V3 : P8/AVDD_3V3 (Wire ID = 1003299 )	Color	Default
	Name	AVDD_3V3

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : P8/DGND (Wire ID = 1003450 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
AVDD_3V3 : P8/AVDD_3V3 (Wire ID = 1003495 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
ADCINx : P8/ADCINX (Wire ID = 1003537 )	Color	Default
	Name	ADCINX

Object	Property Name	Property Value
ADCINx : P8/ADCINX (Wire ID = 1079650 )	Color	Default
	Name	ADCINX

Object	Property Name	Property Value
N839602 : P8/N839602 (Wire ID = 1079735 )	Color	Default
	Name	N839602

Object	Property Name	Property Value
N839644 : P8/N839644 (Wire ID = 1079774 )	Color	Default
	Name	N839644

Object	Property Name	Property Value
AVDD_3V3	Name	AVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
AVDD_3V3	Name	AVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
AVDD_3V3	Name	AVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
ADCINx : P8/ADCINx	Name	ADCINx
	Number	
	Swap Id	-1
	Type	Output
	Net Name	AIN_AN12
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
VINx+ : P8/VINx+	Name	VINx+
	Number	
	Swap Id	-1
	Type	Input
	Net Name	AN12_V+
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
VINx- : P8/VINx-	Name	VINx-
	Number	
	Swap Id	-1
	Type	Input
	Net Name	AN12_V-
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
TitleBlockIntellitrol : P8/TitleBlockIntellitrol	Schematic Page Count	4
	Schematic Page Number	3
	Page Number	4
	Page Count	21
	Path Name	P8/TitleBlockIntellitrol
	Schematic Path	/P8
	ID	8901
	Doc	
	RevCode	0B
	Cage Code	
	Title	Analog input -10V
	OrgName	Jean-Francois Bilodeau, B.E.Eng
	OrgAddr1	CPI/CEP #6022173
	OrgAddr2	925 Chemin ste-foy apt4, QC, CANADA
	OrgAddr3	
	OrgAddr4	
	Name	TitleBlockIntellitrol
	Design Name	DSPEAK-V1_00-0B
	Design File Name	C:\USERS\JEANF\Desktop\GIT\DSPEAK\HARDWA
	Design Create Date	Friday, November 13, 2020
	Design Modify Date	Thursday, March 25, 2021
	Design Create Time	18:59:24
	Design Modify Time	19:51:15
	Schematic Name	ANALOG INPUT -10V
	Schematic Create Date	Saturday, November 21, 2020
	Schematic Modify Date	Thursday, March 25, 2021
	Schematic Create Time	11:56:56
	Schematic Modify Time	18:37:30
	Page Size	A
	Page Create Date	Saturday, November 21, 2020
	Page Modify Date	Thursday, March 25, 2021
	Page Create Time	10:19:16
	Page Modify Time	18:37:29
	Color	Default
	Source Library	C:\USERS\JEANF\GOOGLE DRIVE\ORCAD16LIB\PIECE\PART.OLB
	Source Symbol	TitleBlockIntellitrol
	Page Name	ANALOG INPUTS -10V

Object	Property Name	Property Value
INS1002418 : P8/C13	Name	INS1002418
	ID	8148
	Reference	C13
	Designator	
	Part Reference	C13
	Value	15pF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:1276-2189-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10C150JB81PNC}
	Digi-Key PN	1276-2189-1-ND
	Description	CAP CER 15PF 50V C0G/NP0 0603
	Manufacturer PN	CL10C150JB81PNC
	Manufacturer	Samsung Electro-Mechanics
	PCB Footprint	0603_cap_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P8/C13/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N839560
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P8/C13/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N839602
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS991309 : P8/C18	Name	INS991309
	ID	4041
	Reference	C18
	Designator	
	Part Reference	C18
	Value	1nF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	AVX Corporation
	Manufacturer PN	06035C102KAT2A
	Description	CAP CER 1000PF 50V X7R 0603
	Digi-Key PN	478-1215-1-ND
	digikey_id	{distributorPn:478-1215-1-ND,mfr:AVX Corporation,mpn:06035C102KAT2A,uln:
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P8/C18/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P8/C18/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1079586 : P8/TP9	Name	INS1079586
	ID	8597
	Reference	TP9
	Designator	
	Part Reference	TP9
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P8/TP9/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N839560
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS839512 : P8/R17	Name	INS839512
	ID	3994
	Reference	R17
	Designator	
	Part Reference	R17
	Value	165k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	digikey_id	{distributorPn:311-165KHRCT-ND,mfr:Yageo,mpn:RC0603FR-07165KL,ul:uic}
	Digi-Key PN	311-165KHRCT-ND
	Description	RES SMD 165K OHM 1% 1/10W 0603
	Manufacturer PN	RC0603FR-07165KL
	Manufacturer	Yageo

Object	Property Name	Property Value
1 : P8/R17/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N839560
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P8/R17/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	ADCINx
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS989204 : P8/C16	Name	INS989204
	ID	4025
	Reference	C16
	Designator	
	Part Reference	C16
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P8/C16/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P8/C16/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1079715 : P8/TP11	Name	INS1079715
	ID	8621
	Reference	TP11
	Designator	
	Part Reference	TP11
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P8/TP11/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N839602
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS989222 : P8/C14	Name	INS989222
	ID	4022
	Reference	C14
	Designator	
	Part Reference	C14
	Value	1nF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	AVX Corporation
	Manufacturer PN	06035C102KAT2A
	Description	CAP CER 1000PF 50V X7R 0603
	Digi-Key PN	478-1215-1-ND
	digikey_id	{distributorPn:478-1215-1-ND,mfr:AVX Corporation,mpn:06035C102KAT2A,uln:1}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P8/C14/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P8/C14/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS839542 : P8/R18	Name	INS839542
	ID	3997
	Reference	R18
	Designator	
	Part Reference	R18
	Value	165k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:311-165KHRCT-ND,mfr:Yageo,mpn:RC0603FR-07165KL,ui:165k}
	Digi-Key PN	311-165KHRCT-ND
	Description	RES SMD 165K OHM 1% 1/10W 0603
	Manufacturer PN	RC0603FR-07165KL
	Manufacturer	Yageo
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P8/R18/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N839602
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P8/R18/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N839644
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1079630 : P8/TP10	Name	INS1079630
	ID	8605
	Reference	TP10
	Designator	
	Part Reference	TP10
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P8/TP10/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	ADCINx
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS839452 : P8/R15	Name	INS839452
	ID	3988
	Reference	R15
	Designator	
	Part Reference	R15
	Value	1Meg
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:RMCF0603FT1M00CT-ND,mfr:Stackpole Electronics Inc,mpn:R
	Digi-Key PN	RMCF0603FT1M00CT-ND
	Description	RES 1M OHM 1% 1/10W 0603
	Manufacturer PN	RMCF0603FT1M00
	Manufacturer	Stackpole Electronics Inc
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P8/R15/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	VINx+
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P8/R15/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N839560
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS992370 : P8/R21	Name	INS992370
	ID	4070
	Reference	R21
	Designator	
	Part Reference	R21
	Value	1k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-071KL
	Description	RES SMD 1K OHM 1% 1/10W 0603
	Digi-Key PN	311-1.00KHRCT-ND
	digikey_id	{distributorPn:311-1.00KHRCT-ND,mfr:Yageo,mpn:RC0603FR-071KL,ul:{uid:1}}

Object	Property Name	Property Value
1 : P8/R21/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	1V65_REF
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P8/R21/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS120 : P8/U8	Name	INS120
	ID	3982
	Reference	U8
	Designator	
	Part Reference	U8
	Value	TLV333
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:296-43777-1-ND,mfr:Texas Instruments,mpn:TLV333IDBVR,ul:
	Digi-Key PN	296-43777-1-ND
	Description	IC OPAMP ZER-DRIFT 1CIRC SOT23-5
	Manufacturer PN	TLV333IDBVR
	Manufacturer	Texas Instruments
	PCB Footprint	sot23-5

Object	Property Name	Property Value
OUT : P8/U8/OUT	Name	OUT
	Number	1
	Swap Id	-1
	Type	Power
	Net Name	N839644
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
V- : P8/U8/V-	Name	V-
	Number	2
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
IN+ : P8/U8/IN+	Name	IN+
	Number	3
	Swap Id	-1
	Type	Input
	Net Name	1V65_REF
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
IN- : P8/U8/IN-	Name	IN-
	Number	4
	Swap Id	-1
	Type	Input
	Net Name	N839644
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
V+ : P8/U8/V+	Name	V+
	Number	5
	Swap Id	-1
	Type	Power
	Net Name	AVDD_3V3
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
INS992479 : P8/R19	Name	INS992479
	ID	4074
	Reference	R19
	Designator	
	Part Reference	R19
	Value	9k76
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	digikey_id	{distributorPn:311-9.76KHRCT-ND,mfr:Yageo,mpn:RC0603FR-079K76L,ul:(u
	Digi-Key PN	311-9.76KHRCT-ND
	Description	RES SMD 9.76K OHM 1% 1/10W 0603
	Manufacturer PN	RC0603FR-079K76L
	Manufacturer	Yageo

Object	Property Name	Property Value
1 : P8/R19/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N992554
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P8/R19/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	1V65_REF
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1001267 : P8/C15	Name	INS1001267
	ID	8015
	Reference	C15
	Designator	
	Part Reference	C15
	Value	22pF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Manufacturer	AVX Corporation
	Manufacturer PN	06035A220JAT2A
	Description	CAP CER 22PF 50V C0G/NP0 0603
	Digi-Key PN	478-1167-1-ND
	digikey_id	{distributorPn:478-1167-1-ND,mfr:AVX Corporation,mgn:06035A220JAT2A,ul:
	PCB Footprint	0603_cap_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P8/C15/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N839560
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P8/C15/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	ADCINx
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1079754 : P8/TP12	Name	INS1079754
	ID	8629
	Reference	TP12
	Designator	
	Part Reference	TP12
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P8/TP12/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N839644
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS999461 : P8/D13	Name	INS999461
	ID	7290
	Reference	D13
	Designator	
	Part Reference	D13
	Value	P6SMB12CA
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	DO-214AA
	Manufacturer	Bourns Inc.
	Manufacturer PN	P6SMB12CA
	Description	TVS DIODE 10.2V 16.7V DO214AA
	Digi-Key PN	P6SMB12CABBCT-ND
	digikey_id	{distributorPn:P6SMB12CABBCT-ND,mfr:Bourns Inc.,nPn:P6SMB12CA}
	Distributor PN	
	Distributor	
	Filename	

Object	Property Name	Property Value
1 : P8/D13/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	VINx-
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P8/D13/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	VINx+
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS839482 : P8/R16	Name	INS839482
	ID	3991
	Reference	R16
	Designator	
	Part Reference	R16
	Value	1Meg
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:RMCF0603FT1M00CT-ND,mfr:Stackpole Electronics Inc,mpn:R
	Digi-Key PN	RMCF0603FT1M00CT-ND
	Description	RES 1M OHM 1% 1/10W 0603
	Manufacturer PN	RMCF0603FT1M00
	Manufacturer	Stackpole Electronics Inc
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P8/R16/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	VINx-
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P8/R16/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N839602
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1002672 : P8/U7	Name	INS1002672
	ID	8163
	Reference	U7
	Designator	
	Part Reference	U7
	Value	TLV333
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:296-43777-1-ND,mfr:Texas Instruments,mpn:TLV333IDBVR,ul:
	Digi-Key PN	296-43777-1-ND
	Description	IC OPAMP ZER-DRIFT 1CIRC SOT23-5
	Manufacturer PN	TLV333IDBVR
	Manufacturer	Texas Instruments
	PCB Footprint	sot23-5
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
OUT : P8/U7/OUT	Name	OUT
	Number	1
	Swap Id	-1
	Type	Power
	Net Name	ADCINx
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
V- : P8/U7/V-	Name	V-
	Number	2
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
IN+ : P8/U7/IN+	Name	IN+
	Number	3
	Swap Id	-1
	Type	Input
	Net Name	N839602
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
IN- : P8/U7/IN-	Name	IN-
	Number	4
	Swap Id	-1
	Type	Input
	Net Name	N839560
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
V+ : P8/U7/V+	Name	V+
	Number	5
	Swap Id	-1
	Type	Power
	Net Name	AVDD_3V3
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
INS991291 : P8/C17	Name	INS991291
	ID	4044
	Reference	C17
	Designator	
	Part Reference	C17
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P8/C17/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P8/C17/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS992509 : P8/R20	Name	INS992509
	ID	4077
	Reference	R20
	Designator	
	Part Reference	R20
	Value	3k3
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:RMCF0603FT3K30CT-ND,mfr:Stackpole Electronics Inc,mpn:RMCF0603FT3K30CT-ND}
	Digi-Key PN	RMCF0603FT3K30CT-ND
	Description	RES 3.3K OHM 1% 1/10W 0603
	Manufacturer PN	RMCF0603FT3K30CT-ND
	Manufacturer	Stackpole Electronics Inc
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P8/R20/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P8/R20/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N992554
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS992092 : P8/D14	Name	INS992092
	ID	4066
	Reference	D14
	Designator	
	Part Reference	D14
	Value	LM4041
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	sot23-3
	Manufacturer	Texas Instruments
	Manufacturer PN	LM4041CIM3-ADJ/NOPB
	Description	IC VREF SHUNT 10V 0.5% SOT23-3
	Digi-Key PN	LM4041CIM3-ADJ/NOPBCT-ND
	digikey_id	{distributorPn:LM4041CIM3-ADJ/NOPBCT-ND,mfr:Texas Instruments,mpn:LM4041CIM3-ADJ/NOPB}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
FB : P8/D14/FB	Name	FB
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N992554
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
C : P8/D14/C	Name	C
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	1V65_REF
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
A : P8/D14/A	Name	A
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
Line	Name	I998207
	Color	Default
	Start X-Coordinate	10
	Start Y-Coordinate	650
	End X-Coordinate	510
	End Y-Coordinate	650

Object	Property Name	Property Value
Capacitor are 0603 -20% 16V unless otherwise noted	Name	I998195
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	515
	Bounding Box Top	680
	Bounding Box Bottom	696
	Text	Capacitor are 0603 -20% 16V unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	680
	Font	Courier New

Object	Property Name	Property Value
Resistors are 0603 -1% 1/10W unless otherwise noted	Name	I998201
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	525
	Bounding Box Top	660
	Bounding Box Bottom	676
	Text	Resistors are 0603 -1% 1/10W unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	660
	Font	Courier New

Object	Property Name	Property Value
Place TVS as close as possible to AI connector	Name	I999574
	Color	Default
	Bounding Box Left	20
	Bounding Box Right	216
	Bounding Box Top	320
	Bounding Box Bottom	346
	Text	Place TVS as close as possible to AI connector
	Text Location X-Coordinate	20
	Text Location Y-Coordinate	320
	Font	Courier New

Object	Property Name	Property Value
TVS Bidir Vr = 10.2V Vbr = 11.4V	Name	I999650
	Color	Default
	Bounding Box Left	60
	Bounding Box Right	152
	Bounding Box Top	280
	Bounding Box Bottom	319
	Text	TVS Bidir Vr = 10.2V Vbr = 11.4V
	Text Location X-Coordinate	60
	Text Location Y-Coordinate	280
	Font	Courier New

Object	Property Name	Property Value
Analog input -10V 10 bits resolution	Name	I1081401
	Color	Default
	Bounding Box Left	800
	Bounding Box Right	948
	Bounding Box Top	10
	Bounding Box Bottom	36
	Text	Analog input -10V 10 bits resolution
	Text Location X-Coordinate	800
	Text Location Y-Coordinate	10
	Font	Courier New

Object	Property Name	Property Value
Fs(max) = 1/(2*pi*1Meg*15pF) Fs(max) = 10.6kHz ~ 10k	Name	I1093424
	Color	Default
	Bounding Box Left	9
	Bounding Box Right	237
	Bounding Box Top	360
	Bounding Box Bottom	386
	Text	Fs(max) = 1/(2*pi*1Meg*15pF) Fs(max) = 10.6kHz ~ 10k
	Text Location X-Coordinate	9
	Text Location Y-Coordinate	360
	Font	Courier New

Object	Property Name	Property Value
N839560 : P9/N839560 (Wire ID = 839560 )	Color	Default
N839560 : P9/N839560 (Wire ID = 839560 )	Name	N839560

Object	Property Name	Property Value
N839560 : P9/N839560 (Wire ID = 839564 )	Color	Default
N839560 : P9/N839560 (Wire ID = 839564 )	Name	N839560

Object	Property Name	Property Value
N839560 : P9/N839560 (Wire ID = 839566 )	Color	Default
N839560 : P9/N839560 (Wire ID = 839566 )	Name	N839560

Object	Property Name	Property Value
N839560 : P9/N839560 (Wire ID = 839572 )	Color	Default
N839560 : P9/N839560 (Wire ID = 839572 )	Name	N839560

Object	Property Name	Property Value
N839560 : P9/N839560 (Wire ID = 839574 )	Color	Default
	Name	N839560

Object	Property Name	Property Value
ADCINx : P9/ADCINX (Wire ID = 839582 )	Color	Default
	Name	ADCINX

Object	Property Name	Property Value
ADCINx : P9/ADCINX (Wire ID = 839592 )	Color	Default
	Name	ADCINX

Object	Property Name	Property Value
N839602 : P9/N839602 (Wire ID = 839602 )	Color	Default
	Name	N839602

Object	Property Name	Property Value
N839602 : P9/N839602 (Wire ID = 839606 )	Color	Default
	Name	N839602

Object	Property Name	Property Value
N839602 : P9/N839602 (Wire ID = 839608 )	Color	Default
	Name	N839602

Object	Property Name	Property Value
N839602 : P9/N839602 (Wire ID = 839614 )	Color	Default
	Name	N839602

Object	Property Name	Property Value
N839602 : P9/N839602 (Wire ID = 839634 )	Color	Default
	Name	N839602

Object	Property Name	Property Value
N839644 : P9/N839644 (Wire ID = 839644 )	Color	Default
	Name	N839644

Object	Property Name	Property Value
N839644 : P9/N839644 (Wire ID = 839674 )	Color	Default
	Name	N839644

Object	Property Name	Property Value
N839644 : P9/N839644 (Wire ID = 839678 )	Color	Default
	Name	N839644

Object	Property Name	Property Value
N839644 : P9/N839644 (Wire ID = 839684 )	Color	Default
	Name	N839644

Object	Property Name	Property Value
N839644 : P9/N839644 (Wire ID = 839693 )	Color	Default
	Name	N839644

Object	Property Name	Property Value
N839644 : P9/N839644 (Wire ID = 839695 )	Color	Default
	Name	N839644

Object	Property Name	Property Value
AVDD_3V3 : P9/AVDD_3V3 (Wire ID = 839763 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P9/AVDD_3V3 (Wire ID = 839790 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
DGND : P9/DGND (Wire ID = 983868 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P9/DGND (Wire ID = 983887 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
ADCINx : P9/ADCINX (Wire ID = 983898 )	Color	Default
	Name	ADCINX

Object	Property Name	Property Value
DGND : P9/DGND (Wire ID = 989298 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P9/DGND (Wire ID = 989306 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P9/DGND (Wire ID = 989317 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
AVDD_3V3 : P9/AVDD_3V3 (Wire ID = 989551 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P9/AVDD_3V3 (Wire ID = 989565 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P9/AVDD_3V3 (Wire ID = 991263 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P9/AVDD_3V3 (Wire ID = 991267 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P9/AVDD_3V3 (Wire ID = 991271 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
DGND : P9/DGND (Wire ID = 991333 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P9/DGND (Wire ID = 991337 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P9/DGND (Wire ID = 991345 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P9/DGND (Wire ID = 991349 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
AVDD_3V3 : P9/AVDD_3V3 (Wire ID = 991486 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P9/AVDD_3V3 (Wire ID = 991490 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
VINx+ : P9/VINX+ (Wire ID = 991998 )	Color	Default
	Name	VINX+

Object	Property Name	Property Value
VINx- : P9/VINX- (Wire ID = 992002 )	Color	Default
	Name	VINX-

Object	Property Name	Property Value
DGND : P9/DGND (Wire ID = 992262 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
AVDD_3V3 : P9/AVDD_3V3 (Wire ID = 992433 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
1V65_REF : P9/1V65_REF (Wire ID = 992463 )	Color	Default
	Name	1V65_REF

Object	Property Name	Property Value
DGND : P9/DGND (Wire ID = 992529 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P9/DGND (Wire ID = 992533 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N992554 : P9/N992554 (Wire ID = 992554 )	Color	Default
	Name	N992554

Object	Property Name	Property Value
N992554 : P9/N992554 (Wire ID = 992562 )	Color	Default
	Name	N992554

Object	Property Name	Property Value
N992554 : P9/N992554 (Wire ID = 992566 )	Color	Default
	Name	N992554

Object	Property Name	Property Value
1V65_REF : P9/1V65_REF (Wire ID = 992711 )	Color	Default
	Name	1V65_REF

Object	Property Name	Property Value
1V65_REF : P9/1V65_REF (Wire ID = 992715 )	Color	Default
	Name	1V65_REF

Object	Property Name	Property Value
1V65_REF : P9/1V65_REF (Wire ID = 992782 )	Color	Default
	Name	1V65_REF

Object	Property Name	Property Value
DGND : P9/DGND (Wire ID = 993408 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
1V65_REF : P9/1V65_REF (Wire ID = 993455 )	Color	Default
	Name	1V65_REF

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
VINx+ : P9/VINX+ (Wire ID = 999526 )	Color	Default
	Name	VINX+

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
VINx+ : P9/VINX+ (Wire ID = 999530 )	Color	Default
	Name	VINX+

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
VINx- : P9/VINX- (Wire ID = 999536 )	Color	Default
	Name	VINX-

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
VINx- : P9/VINX- (Wire ID = 999540 )	Color	Default
	Name	VINX-

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
ADCINx : P9/ADCINX (Wire ID = 1001285 )	Color	Default
	Name	ADCINX

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
ADCINx : P9/ADCINX (Wire ID = 1001287 )	Color	Default
	Name	ADCINX

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N839560 : P9/N839560 (Wire ID = 1001300 )	Color	Default
	Name	N839560

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N839560 : P9/N839560 (Wire ID = 1001306 )	Color	Default
	Name	N839560

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N839560 : P9/N839560 (Wire ID = 1002436 )	Color	Default
	Name	N839560

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N839560 : P9/N839560 (Wire ID = 1002440 )	Color	Default
	Name	N839560

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N839602 : P9/N839602 (Wire ID = 1002452 )	Color	Default
	Name	N839602

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N839602 : P9/N839602 (Wire ID = 1002456 )	Color	Default
	Name	N839602

Object	Property Name	Property Value
DGND : P9/DGND (Wire ID = 1002987 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P9/DGND (Wire ID = 1002991 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
AVDD_3V3 : P9/AVDD_3V3 (Wire ID = 1003299 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
DGND : P9/DGND (Wire ID = 1003450 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
AVDD_3V3 : P9/AVDD_3V3 (Wire ID = 1003495 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
ADCINx : P9/ADCINX (Wire ID = 1003537 )	Color	Default
	Name	ADCINX

Object	Property Name	Property Value
ADCINx : P9/ADCINX (Wire ID = 1079650 )	Color	Default
	Name	ADCINX

Object	Property Name	Property Value
N839602 : P9/N839602 (Wire ID = 1079735 )	Color	Default
	Name	N839602

Object	Property Name	Property Value
N839644 : P9/N839644 (Wire ID = 1079774 )	Color	Default
	Name	N839644

Object	Property Name	Property Value
AVDD_3V3	Name	AVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
AVDD_3V3	Name	AVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
AVDD_3V3	Name	AVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
ADCINx : P9/ADCINx	Name	ADCINx
	Number	
	Swap Id	-1
	Type	Output
	Net Name	AIN_AN13
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
VINx+ : P9/VINx+	Name	VINx+
	Number	
	Swap Id	-1
	Type	Input
	Net Name	AN13_V+
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
VINx- : P9/VINx-	Name	VINx-
	Number	
	Swap Id	-1
	Type	Input
	Net Name	AN13_V-
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
TitleBlockIntellitrol : P9/TitleBlockIntellitrol	Schematic Page Count	4
	Schematic Page Number	4
	Page Number	5
	Page Count	21
	Path Name	P9/TitleBlockIntellitrol
	Schematic Path	/P9
	ID	8903
	Doc	
	RevCode	0B
	Cage Code	
	Title	Analog input -10V
	OrgName	Jean-Francois Bilodeau, B.E.Eng
	OrgAddr1	CPI/CEP #6022173
	OrgAddr2	925 Chemin ste-foy apt4, QC, CANADA
	OrgAddr3	
	OrgAddr4	
	Name	TitleBlockIntellitrol
	Design Name	DSPEAK-V1_00-0B
	Design File Name	C:\USERS\JEANF\DESKTOP\GIT\DSPEAK\HARDWARE\V1_00-0B\CAPTURE
	Design Create Date	Friday, November 13, 2020
	Design Modify Date	Thursday, March 25, 2021
	Design Create Time	18:59:24
	Design Modify Time	19:51:15
	Schematic Name	ANALOG INPUT -10V
	Schematic Create Date	Saturday, November 21, 2020
	Schematic Modify Date	Thursday, March 25, 2021
	Schematic Create Time	11:56:56
	Schematic Modify Time	18:37:30
	Page Size	A
	Page Create Date	Saturday, November 21, 2020
	Page Modify Date	Thursday, March 25, 2021
	Page Create Time	10:19:16
	Page Modify Time	18:37:29
	Color	Default
	Source Library	C:\USERS\JEANF\GOOGLE DRIVE\ORCAD16LIB\PIECE\PART.OLB
	Source Symbol	TitleBlockIntellitrol
	Page Name	ANALOG INPUTS -10V

Object	Property Name	Property Value
INS1002418 : P9/C19	Name	INS1002418
	ID	8154
	Reference	C19
	Designator	
	Part Reference	C19
	Value	15pF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:1276-2189-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10C1}
	Digi-Key PN	1276-2189-1-ND
	Description	CAP CER 15PF 50V C0G/NP0 0603
	Manufacturer PN	CL10C150JB81PNC
	Manufacturer	Samsung Electro-Mechanics
	PCB Footprint	0603_cap_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P9/C19/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N839560
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P9/C19/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N839602
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS991309 : P9/C24	Name	INS991309
	ID	4432
	Reference	C24
	Designator	
	Part Reference	C24
	Value	1nF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	AVX Corporation
	Manufacturer PN	06035C102KAT2A
	Description	CAP CER 1000PF 50V X7R 0603
	Digi-Key PN	478-1215-1-ND
	digikey_id	{distributorPn:478-1215-1-ND,mfr:AVX Corporation,mpn:06035C102KAT2A,u}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P9/C24/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P9/C24/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1079586 : P9/TP13	Name	INS1079586
	ID	8601
	Reference	TP13
	Designator	
	Part Reference	TP13
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P9/TP13/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N839560
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS839512 : P9/R24	Name	INS839512
	ID	4413
	Reference	R24
	Designator	
	Part Reference	R24
	Value	165k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	digikey_id	{distributorPn:311-165KHRCT-ND,mfr:Yageo,mpn:RC0603FR-07165KL,ul:165k}
	Digi-Key PN	311-165KHRCT-ND
	Description	RES SMD 165K OHM 1% 1/10W 0603
	Manufacturer PN	RC0603FR-07165KL
	Manufacturer	Yageo

Object	Property Name	Property Value
1 : P9/R24/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N839560
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P9/R24/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	ADCINx
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS989204 : P9/C22	Name	INS989204
	ID	4377
	Reference	C22
	Designator	
	Part Reference	C22
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P9/C22/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P9/C22/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1079715 : P9/TP15	Name	INS1079715
	ID	8625
	Reference	TP15
	Designator	
	Part Reference	TP15
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P9/TP15/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N839602
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS989222 : P9/C20	Name	INS989222
	ID	4380
	Reference	C20
	Designator	
	Part Reference	C20
	Value	1nF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	AVX Corporation
	Manufacturer PN	06035C102KAT2A
	Description	CAP CER 1000PF 50V X7R 0603
	Digi-Key PN	478-1215-1-ND
	digikey_id	{distributorPn:478-1215-1-ND,mfr:AVX Corporation,mpn:06035C102KAT2A,ul:(uid:06035C102KAT2A,ui)}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P9/C20/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P9/C20/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS839542 : P9/R25	Name	INS839542
	ID	4401
	Reference	R25
	Designator	
	Part Reference	R25
	Value	165k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:311-165KHRCT-ND,mfr:Yageo,mpn:RC0603FR-07165KL,ul:(uid:0603FR-07165KL,ui)}
	Digi-Key PN	311-165KHRCT-ND
	Description	RES SMD 165K OHM 1% 1/10W 0603
	Manufacturer PN	RC0603FR-07165KL
	Manufacturer	Yageo
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P9/R25/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N839602
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P9/R25/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N839644
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1079630 : P9/TP14	Name	INS1079630
	ID	8609
	Reference	TP14
	Designator	
	Part Reference	TP14
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P9/TP14/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	ADCINx
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS839452 : P9/R22	Name	INS839452
	ID	4383
	Reference	R22
	Designator	
	Part Reference	R22
	Value	1Meg
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:RMCF0603FT1M00CT-ND,mfr:Stackpole Electronics Inc,mpn:R
	Digi-Key PN	RMCF0603FT1M00CT-ND
	Description	RES 1M OHM 1% 1/10W 0603
	Manufacturer PN	RMCF0603FT1M00
	Manufacturer	Stackpole Electronics Inc
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P9/R22/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	VINx+
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P9/R22/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N839560
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS992370 : P9/R28	Name	INS992370
	ID	4398
	Reference	R28
	Designator	
	Part Reference	R28
	Value	1k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-071KL
	Description	RES SMD 1K OHM 1% 1/10W 0603
	Digi-Key PN	311-1.00KHRCT-ND
	digikey_id	{distributorPn:311-1.00KHRCT-ND,mfr:Yageo,mpn:RC0603FR-071KL,ul:{uid:R}

Object	Property Name	Property Value
1 : P9/R28/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	1V65_REF
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P9/R28/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS120 : P9/U10	Name	INS120
	ID	4392
	Reference	U10
	Designator	
	Part Reference	U10
	Value	TLV333
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:296-43777-1-ND,mfr:Texas Instruments,mpn:TLV333IDBVR,ul:
	Digi-Key PN	296-43777-1-ND
	Description	IC OPAMP ZER-DRIFT 1CIRC SOT23-5
	Manufacturer PN	TLV333IDBVR
	Manufacturer	Texas Instruments
	PCB Footprint	sot23-5

Object	Property Name	Property Value
OUT : P9/U10/OUT	Name	OUT
	Number	1
	Swap Id	-1
	Type	Power
	Net Name	N839644
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
V- : P9/U10/V-	Name	V-
	Number	2
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
IN+ : P9/U10/IN+	Name	IN+
	Number	3
	Swap Id	-1
	Type	Input
	Net Name	1V65_REF
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
IN- : P9/U10/IN-	Name	IN-
	Number	4
	Swap Id	-1
	Type	Input
	Net Name	N839644
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
V+ : P9/U10/V+	Name	V+
	Number	5
	Swap Id	-1
	Type	Power
	Net Name	AVDD_3V3
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
INS992479 : P9/R26	Name	INS992479
	ID	4419
	Reference	R26
	Designator	
	Part Reference	R26
	Value	9k76
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	digikey_id	{distributorPn:311-9.76KHRCT-ND,mfr:Yageo,mpn:RC0603FR-079K76L,ul:(u
	Digi-Key PN	311-9.76KHRCT-ND
	Description	RES SMD 9.76K OHM 1% 1/10W 0603
	Manufacturer PN	RC0603FR-079K76L
	Manufacturer	Yageo

Object	Property Name	Property Value
1 : P9/R26/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N992554
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P9/R26/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	1V65_REF
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1001267 : P9/C21	Name	INS1001267
	ID	8021
	Reference	C21
	Designator	
	Part Reference	C21
	Value	22pF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Manufacturer	AVX Corporation
	Manufacturer PN	06035A220JAT2A
	Description	CAP CER 22PF 50V C0G/NP0 0603
	Digi-Key PN	478-1167-1-ND
	digikey_id	{distributorPn:478-1167-1-ND,mfr:AVX Corporation,mpn:06035A220JAT2A,ul:
	PCB Footprint	0603_cap_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P9/C21/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N839560
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P9/C21/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	ADCINx
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1079754 : P9/TP16	Name	INS1079754
	ID	8633
	Reference	TP16
	Designator	
	Part Reference	TP16
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P9/TP16/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N839644
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS999461 : P9/D15	Name	INS999461
	ID	7296
	Reference	D15
	Designator	
	Part Reference	D15
	Value	P6SMB12CA
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	DO-214AA
	Manufacturer	Bourns Inc.
	Manufacturer PN	P6SMB12CA
	Description	TVS DIODE 10.2V 16.7V DO214AA
	Digi-Key PN	P6SMB12CABBCT-ND
	digikey_id	{distributorPn:P6SMB12CABBCT-ND,mfr:Bourns Inc.,pn:P6SMB12CA}
	Distributor PN	
	Distributor	
	Filename	

Object	Property Name	Property Value
1 : P9/D15/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	VINx-
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P9/D15/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	VINx+
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS839482 : P9/R23	Name	INS839482
	ID	4435
	Reference	R23
	Designator	
	Part Reference	R23
	Value	1Meg
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:RMCF0603FT1M00CT-ND,mfr:Stackpole Electronics Inc,mpn:R
	Digi-Key PN	RMCF0603FT1M00CT-ND
	Description	RES 1M OHM 1% 1/10W 0603
	Manufacturer PN	RMCF0603FT1M00
	Manufacturer	Stackpole Electronics Inc
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P9/R23/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	VINx-
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P9/R23/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N839602
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1002672 : P9/U9	Name	INS1002672
	ID	8175
	Reference	U9
	Designator	
	Part Reference	U9
	Value	TLV333
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:296-43777-1-ND,mfr:Texas Instruments,mpn:TLV333IDBVR,ul:
	Digi-Key PN	296-43777-1-ND
	Description	IC OPAMP ZER-DRIFT 1CIRC SOT23-5
	Manufacturer PN	TLV333IDBVR
	Manufacturer	Texas Instruments
	PCB Footprint	sot23-5
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
OUT : P9/U9/OUT	Name	OUT
	Number	1
	Swap Id	-1
	Type	Power
	Net Name	ADCINx
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
V- : P9/U9/V-	Name	V-
	Number	2
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
IN+ : P9/U9/IN+	Name	IN+
	Number	3
	Swap Id	-1
	Type	Input
	Net Name	N839602
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
IN- : P9/U9/IN-	Name	IN-
	Number	4
	Swap Id	-1
	Type	Input
	Net Name	N839560
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
V+ : P9/U9/V+	Name	V+
	Number	5
	Swap Id	-1
	Type	Power
	Net Name	AVDD_3V3
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
INS991291 : P9/C23	Name	INS991291
	ID	4429
	Reference	C23
	Designator	
	Part Reference	C23
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P9/C23/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P9/C23/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS992509 : P9/R27	Name	INS992509
	ID	4404
	Reference	R27
	Designator	
	Part Reference	R27
	Value	3k3
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:RMCF0603FT3K30CT-ND,mfr:Stackpole Electronics Inc,mpn:RMCF0603FT3K30CT-ND}
	Digi-Key PN	RMCF0603FT3K30CT-ND
	Description	RES 3.3K OHM 1% 1/10W 0603
	Manufacturer PN	RMCF0603FT3K30
	Manufacturer	Stackpole Electronics Inc
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P9/R27/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P9/R27/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N992554
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS992092 : P9/D16	Name	INS992092
	ID	4425
	Reference	D16
	Designator	
	Part Reference	D16
	Value	LM4041
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	sot23-3
	Manufacturer	Texas Instruments
	Manufacturer PN	LM4041CIM3-ADJ/NOPB
	Description	IC VREF SHUNT 10V 0.5% SOT23-3
	Digi-Key PN	LM4041CIM3-ADJ/NOPBCT-ND
	digikey_id	{distributorPn:LM4041CIM3-ADJ/NOPBCT-ND,mfr:Texas Instruments,mpn:LM4041CIM3-ADJ/NOPB}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
FB : P9/D16/FB	Name	FB
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N992554
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
C : P9/D16/C	Name	C
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	1V65_REF
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
A : P9/D16/A	Name	A
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
Line	Name	I998418
	Color	Default
	Start X-Coordinate	10
	Start Y-Coordinate	650
	End X-Coordinate	510
	End Y-Coordinate	650

Object	Property Name	Property Value
Capacitor are 0603 -20% 16V unless otherwise noted	Name	I998406
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	515
	Bounding Box Top	680
	Bounding Box Bottom	696
	Text	Capacitor are 0603 -20% 16V unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	680
	Font	Courier New

Object	Property Name	Property Value
Resistors are 0603 -1% 1/10W unless otherwise noted	Name	I998412
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	525
	Bounding Box Top	660
	Bounding Box Bottom	676
	Text	Resistors are 0603 -1% 1/10W unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	660
	Font	Courier New

Object	Property Name	Property Value
Place TVS as close as possible to AI connector	Name	I999738
	Color	Default
	Bounding Box Left	20
	Bounding Box Right	216
	Bounding Box Top	320
	Bounding Box Bottom	346
	Text	Place TVS as close as possible to AI connector
	Text Location X-Coordinate	20
	Text Location Y-Coordinate	320
	Font	Courier New

Object	Property Name	Property Value
TVS Bidir Vr = 3.3V Vbr = 3.6V	Name	I999744
	Color	Default
	Bounding Box Left	70
	Bounding Box Right	154
	Bounding Box Top	280
	Bounding Box Bottom	319
	Text	TVS Bidir Vr = 3.3V Vbr = 3.6V
	Text Location X-Coordinate	70
	Text Location Y-Coordinate	280
	Font	Courier New

Object	Property Name	Property Value
Analog input -3.3V 12 bits resolution	Name	I1081266
	Color	Default
	Bounding Box Left	790
	Bounding Box Right	938
	Bounding Box Top	10
	Bounding Box Bottom	36
	Text	Analog input -3.3V 12 bits resolution
	Text Location X-Coordinate	790
	Text Location Y-Coordinate	10
	Font	Courier New

Object	Property Name	Property Value
	Name	I1093418
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	238
Fs(max) = 1/(2*pi*1Meg*15pF) Fs(max) = 10.6kHz ~ 10k	Bounding Box Top	360
	Bounding Box Bottom	386
	Text	Fs(max) = 1/(2*pi*1Meg*15pF) Fs(max) = 10.6kHz ~ 10k
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	360
	Font	Courier New

Object	Property Name	Property Value
N994718 : P6/N994718 (Wire ID = 994718 )	Color	Default
	Name	N994718

Object	Property Name	Property Value
N994718 : P6/N994718 (Wire ID = 994722 )	Color	Default
	Name	N994718

Object	Property Name	Property Value
ADCINx : P6/ADCINX (Wire ID = 994726 )	Color	Default
	Name	ADCINX

Object	Property Name	Property Value
ADCINx : P6/ADCINX (Wire ID = 994730 )	Color	Default
	Name	ADCINX

Object	Property Name	Property Value
AVDD_3V3 : P6/AVDD_3V3 (Wire ID = 994742 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P6/AVDD_3V3 (Wire ID = 994762 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P6/AVDD_3V3 (Wire ID = 994766 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P6/AVDD_3V3 (Wire ID = 994770 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
DGND : P6/DGND (Wire ID = 994856 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P6/DGND (Wire ID = 994860 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N994718 : P6/N994718 (Wire ID = 994876 )	Color	Default
	Name	N994718

Object	Property Name	Property Value
N994718 : P6/N994718 (Wire ID = 994880 )	Color	Default
	Name	N994718

Object	Property Name	Property Value
N994718 : P6/N994718 (Wire ID = 994884 )	Color	Default
	Name	N994718

Object	Property Name	Property Value
N994718 : P6/N994718 (Wire ID = 994888 )	Color	Default
	Name	N994718

Object	Property Name	Property Value
DGND : P6/DGND (Wire ID = 994900 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N994718 : P6/N994718 (Wire ID = 994992 )	Color	Default
	Name	N994718

Object	Property Name	Property Value
ADCINx : P6/ADCINX (Wire ID = 995006 )	Color	Default
	Name	ADCINX

Object	Property Name	Property Value
N995010 : P6/N995010 (Wire ID = 995010 )	Color	Default
	Name	N995010

Object	Property Name	Property Value
N995010 : P6/N995010 (Wire ID = 995014 )	Color	Default
	Name	N995010

Object	Property Name	Property Value
N995010 : P6/N995010 (Wire ID = 995018 )	Color	Default
	Name	N995010

Object	Property Name	Property Value
N995010 : P6/N995010 (Wire ID = 995058 )	Color	Default
	Name	N995010

Object	Property Name	Property Value
N995010 : P6/N995010 (Wire ID = 995062 )	Color	Default
	Name	N995010

Object	Property Name	Property Value
N995010 : P6/N995010 (Wire ID = 995066 )	Color	Default
	Name	N995010

Object	Property Name	Property Value
AVDD_3V3 : P6/AVDD_3V3 (Wire ID = 995078 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
DGND : P6/DGND (Wire ID = 995082 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
AVDD_3V3 : P6/AVDD_3V3 (Wire ID = 995094 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P6/AVDD_3V3 (Wire ID = 995098 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P6/AVDD_3V3 (Wire ID = 995102 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P6/AVDD_3V3 (Wire ID = 995106 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P6/AVDD_3V3 (Wire ID = 995110 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
DGND : P6/DGND (Wire ID = 995226 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P6/DGND (Wire ID = 995230 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P6/DGND (Wire ID = 995256 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P6/DGND (Wire ID = 995260 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
1V65_REF : P6/1V65_REF (Wire ID = 995354 )	Color	Default
	Name	1V65_REF

Object	Property Name	Property Value
1V65_REF : P6/1V65_REF (Wire ID = 995376 )	Color	Default
	Name	1V65_REF

Object	Property Name	Property Value
1V65_REF : P6/1V65_REF (Wire ID = 995390 )	Color	Default
	Name	1V65_REF

Object	Property Name	Property Value
1V65_REF : P6/1V65_REF (Wire ID = 995394 )	Color	Default
	Name	1V65_REF

Object	Property Name	Property Value
1V65_REF : P6/1V65_REF (Wire ID = 995398 )	Color	Default
	Name	1V65_REF

Object	Property Name	Property Value
N995010 : P6/N995010 (Wire ID = 995402 )	Color	Default
	Name	N995010

Object	Property Name	Property Value
N995406 : P6/N995406 (Wire ID = 995406 )	Color	Default
	Name	N995406

Object	Property Name	Property Value
N995406 : P6/N995406 (Wire ID = 995410 )	Color	Default
	Name	N995406

Object	Property Name	Property Value
N995406 : P6/N995406 (Wire ID = 995414 )	Color	Default
	Name	N995406

Object	Property Name	Property Value
N995406 : P6/N995406 (Wire ID = 995418 )	Color	Default
	Name	N995406

Object	Property Name	Property Value
N995406 : P6/N995406 (Wire ID = 995422 )	Color	Default
	Name	N995406

Object	Property Name	Property Value
DGND : P6/DGND (Wire ID = 995444 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N995498 : P6/N995498 (Wire ID = 995498 )	Color	Default
	Name	N995498

Object	Property Name	Property Value
N995498 : P6/N995498 (Wire ID = 995502 )	Color	Default
	Name	N995498

Object	Property Name	Property Value
N995498 : P6/N995498 (Wire ID = 995506 )	Color	Default
	Name	N995498

Object	Property Name	Property Value
N995406 : P6/N995406 (Wire ID = 995510 )	Color	Default
	Name	N995406

Object	Property Name	Property Value
DGND : P6/DGND (Wire ID = 995554 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P6/DGND (Wire ID = 995558 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P6/DGND (Wire ID = 995566 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P6/DGND (Wire ID = 995570 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
VINx+ : P6/VINX+ (Wire ID = 999754 )	Color	Default
	Name	VINX+

Object	Property Name	Property Value
VINx+ : P6/VINX+ (Wire ID = 999758 )	Color	Default
	Name	VINX+

Object	Property Name	Property Value
VINx+ : P6/VINX+ (Wire ID = 999762 )	Color	Default
	Name	VINX+

Object	Property Name	Property Value
VINx- : P6/VINX- (Wire ID = 999784 )	Color	Default
	Name	VINX-

Object	Property Name	Property Value
VINx- : P6/VINX- (Wire ID = 999788 )	Color	Default
	Name	VINX-

Object	Property Name	Property Value
VINx- : P6/VINX- (Wire ID = 999792 )	Color	Default
	Name	VINX-

Object	Property Name	Property Value
ADCINx : P6/ADCINX (Wire ID = 1001574 )	Color	Default
	Name	ADCINX

Object	Property Name	Property Value
ADCINx : P6/ADCINX (Wire ID = 1001594 )	Color	Default
	Name	ADCINX

Object	Property Name	Property Value
N994718 : P6/N994718 (Wire ID = 1001609 )	Color	Default
	Name	N994718

Object	Property Name	Property Value
N994718 : P6/N994718 (Wire ID = 1001615 )	Color	Default
	Name	N994718

Object	Property Name	Property Value
DGND : P6/DGND (Wire ID = 1003142 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P6/DGND (Wire ID = 1003144 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
ADCINx : P6/ADCINX (Wire ID = 1003183 )	Color	Default
	Name	ADCINX

Object	Property Name	Property Value
DGND : P6/DGND (Wire ID = 1003249 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
AVDD_3V3 : P6/AVDD_3V3 (Wire ID = 1003425 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
ADCINx : P6/ADCINX (Wire ID = 1079606 )	Color	Default
	Name	ADCINX

Object	Property Name	Property Value
N995406 : P6/N995406 (Wire ID = 1079644 )	Color	Default
	Name	N995406

Object	Property Name	Property Value
N995010 : P6/N995010 (Wire ID = 1079682 )	Color	Default
	Name	N995010

Object	Property Name	Property Value
AVDD_3V3 : P6/AVDD_3V3 (Wire ID = 1088695 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3	Name	AVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
AVDD_3V3	Name	AVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
AVDD_3V3	Name	AVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
VINx+ : P6/VINx+	Name	VINx+
	Number	
	Swap Id	-1
	Type	Input
	Net Name	AN0_V+
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
ADCINx : P6/ADCINx	Name	ADCINx
	Number	
	Swap Id	-1
	Type	Output
	Net Name	AIN_AN0
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
VINx- : P6/VINx-	Name	VINx-
	Number	
	Swap Id	-1
	Type	Input
	Net Name	AN0_V-
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
TitleBlockIntellitrol : P6/TitleBlockIntellitrol	Schematic Page Count	2
	Schematic Page Number	1
	Page Number	6
	Page Count	21
	Path Name	P6/TitleBlockIntellitrol
	Schematic Path	/P6
	ID	8904
	Doc	
	RevCode	0B
	Cage Code	
	Title	Analog input -3V3
	OrgName	Jean-Francois Bilodeau, B.E.Eng
	OrgAddr1	CPI/CEP #6022173
	OrgAddr2	925 Chemin ste-foy apt4, QC, CANADA
	OrgAddr3	
	OrgAddr4	
	Name	TitleBlockIntellitrol
	Design Name	DSPEAK-V1_00-0B
	Design File Name	C:\USERS\JEANF\DESKTOP\GIT\DSPEAK\HARDWA
	Design Create Date	Friday, November 13, 2020
	Design Modify Date	Thursday, March 25, 2021
	Design Create Time	18:59:24
	Design Modify Time	19:51:15
	Schematic Name	ANALOG INPUT -3V3
	Schematic Create Date	Saturday, November 21, 2020
	Schematic Modify Date	Thursday, March 25, 2021
	Schematic Create Time	11:58:52
	Schematic Modify Time	18:28:54
	Page Size	A
	Page Create Date	Saturday, November 21, 2020
	Page Modify Date	Thursday, March 25, 2021
	Page Create Time	11:58:50
	Page Modify Time	18:28:53
	Color	Default
	Source Library	C:\USERS\JEANF\GOOGLE DRIVE\ORCAD16LIB\PIECE\PART.OLB
	Source Symbol	TitleBlockIntellitrol
	Page Name	ANALOG INPUT -3V3

Object	Property Name	Property Value
INS1002798 : P6/U3	Name	INS1002798
	ID	8201
	Reference	U3
	Designator	
	Part Reference	U3
	Value	TLV333
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:296-43777-1-ND,mfr:Texas Instruments}
	Digi-Key PN	296-43777-1-ND
	Description	IC OPAMP ZER-DRIFT 1CIRC SOT23-5
	Manufacturer PN	TLV333IDBVR
	Manufacturer	Texas Instruments
	PCB Footprint	sot23-5
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
OUT : P6/U3/OUT	Name	OUT
	Number	1
	Swap Id	-1
	Type	Power
	Net Name	ADCINx
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
V- : P6/U3/V-	Name	V-
	Number	2
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
IN+ : P6/U3/IN+	Name	IN+
	Number	3
	Swap Id	-1
	Type	Input
	Net Name	N995010
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
IN- : P6/U3/IN-	Name	IN-
	Number	4
	Swap Id	-1
	Type	Input
	Net Name	N994718
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
V+ : P6/U3/V+	Name	V+
	Number	5
	Swap Id	-1
	Type	Power
	Net Name	AVDD_3V3
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
INS1079586 : P6/TP18	Name	INS1079586
	ID	8579
	Reference	TP18
	Designator	
	Part Reference	TP18
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P6/TP18/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	ADCINx
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS995356 : P6/R4	Name	INS995356
	ID	5125
	Reference	R4
	Designator	
	Part Reference	R4
	Value	499k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:RMCF0603FT499KCT-ND,mfr:Stackpole Electronics Inc,mpn:RMC
	Digi-Key PN	RMCF0603FT499KCT-ND
	Description	RES 499K OHM 1% 1/10W 0603
	Manufacturer PN	RMCF0603FT499K
	Manufacturer	Stackpole Electronics Inc
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P6/R4/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N995010
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P6/R4/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N995406
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS995446 : P6/D10	Name	INS995446
	ID	5128
	Reference	D10
	Designator	
	Part Reference	D10
	Value	LM4041
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	sot23-3
	Manufacturer	Texas Instruments
	Manufacturer PN	LM4041CIM3-ADJ/NOPB
	Description	IC VREF SHUNT 10V 0.5% SOT23-3
	Digi-Key PN	LM4041CIM3-ADJ/NOPBCT-ND
	digikey_id	{distributorPn:LM4041CIM3-ADJ/NOPBCT-ND,mfr:Texas Instruments,mpn:LM
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
FB : P6/D10/FB	Name	FB
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N995498
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
C : P6/D10/C	Name	C
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	1V65_REF
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
A : P6/D10/A	Name	A
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
INS1079701 : P6/TP17	Name	INS1079701
	ID	8591
	Reference	TP17
	Designator	
	Part Reference	TP17
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P6/TP17/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N994718
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS994972 : P6/C1	Name	INS994972
	ID	5147
	Reference	C1
	Designator	
	Part Reference	C1
	Value	15pF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:1276-2189-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10C1}
	Digi-Key PN	1276-2189-1-ND
	Description	CAP CER 15PF 50V C0G/NP0 0603
	Manufacturer PN	CL10C150JB81PNC
	Manufacturer	Samsung Electro-Mechanics
	PCB Footprint	0603_cap_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P6/C1/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N994718
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P6/C1/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N995010
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS995180 : P6/C5	Name	INS995180
	ID	5171
	Reference	C5
	Designator	
	Part Reference	C5
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P6/C5/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P6/C5/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1079624 : P6/TP20	Name	INS1079624
	ID	8583
	Reference	TP20
	Designator	
	Part Reference	TP20
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P6/TP20/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N995406
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1001556 : P6/C3	Name	INS1001556
	ID	8028
	Reference	C3
	Designator	
	Part Reference	C3
	Value	22pF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:478-1167-1-ND,mfr:AVX Corporation,mpn:06035A220JAT2A,ul:
	Digi-Key PN	478-1167-1-ND
	Description	CAP CER 22PF 50V C0G/NP0 0603
	Manufacturer PN	06035A220JAT2A
	Manufacturer	AVX Corporation
	PCB Footprint	0603_cap_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P6/C3/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N994718
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P6/C3/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	ADCINx
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS994790 : P6/C4	Name	INS994790
	ID	5107
	Reference	C4
	Designator	
	Part Reference	C4
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P6/C4/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P6/C4/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS995198 : P6/C6	Name	INS995198
	ID	5162
	Reference	C6
	Designator	
	Part Reference	C6
	Value	1nF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	AVX Corporation
	Manufacturer PN	06035C102KAT2A
	Description	CAP CER 1000PF 50V X7R 0603
	Digi-Key PN	478-1215-1-ND
	digikey_id	{distributorPn:478-1215-1-ND,mfr:AVX Corporation,mpn:06035C102KAT2A,ul}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P6/C6/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P6/C6/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS994698 : P6/R3	Name	INS994698
	ID	5153
	Reference	R3
	Designator	
	Part Reference	R3
	Value	499k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	Manufacturer	Stackpole Electronics Inc
	Manufacturer PN	RMCF0603FT499K
	Description	RES 499K OHM 1% 1/10W 0603
	Digi-Key PN	RMCF0603FT499KCT-ND
	digikey_id	{distributorPn:RMCF0603FT499KCT-ND,mfr:Stackpole Electronics Inc,mpn:R

Object	Property Name	Property Value
1 : P6/R3/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N994718
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P6/R3/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	ADCINx
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS995512 : P6/R6	Name	INS995512
	ID	5144
	Reference	R6
	Designator	
	Part Reference	R6
	Value	3k3
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:RMCF0603FT3K30CT-ND,mfr:Stackpole Electronics Inc,mpn:RMCF0603FT3K30CT-ND}
	Digi-Key PN	RMCF0603FT3K30CT-ND
	Description	RES 3.3K OHM 1% 1/10W 0603
	Manufacturer PN	RMCF0603FT3K30
	Manufacturer	Stackpole Electronics Inc
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P6/R6/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P6/R6/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N995498
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS994808 : P6/C2	Name	INS994808
	ID	5141
	Reference	C2
	Designator	
	Part Reference	C2
	Value	1nF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	AVX Corporation
	Manufacturer PN	06035C102KAT2A
	Description	CAP CER 1000PF 50V X7R 0603
	Digi-Key PN	478-1215-1-ND
	digikey_id	{distributorPn:478-1215-1-ND,mfr:AVX Corporation,mpn:06035C102KAT2A,ul:
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P6/C2/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P6/C2/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS995288 : P6/U4	Name	INS995288
	ID	5132
	Reference	U4
	Designator	
	Part Reference	U4
	Value	TLV333
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:296-43777-1-ND,mfr:Texas Instruments,mpn:TLV333IDBVR,ul:
	Digi-Key PN	296-43777-1-ND
	Description	IC OPAMP ZER-DRIFT 1CIRC SOT23-5
	Manufacturer PN	TLV333IDBVR
	Manufacturer	Texas Instruments
	PCB Footprint	sot23-5

Object	Property Name	Property Value
OUT : P6/U4/OUT	Name	OUT
	Number	1
	Swap Id	-1
	Type	Power
	Net Name	N995406
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
V- : P6/U4/V-	Name	V-
	Number	2
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
IN+ : P6/U4/IN+	Name	IN+
	Number	3
	Swap Id	-1
	Type	Input
	Net Name	1V65_REF
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
IN- : P6/U4/IN-	Name	IN-
	Number	4
	Swap Id	-1
	Type	Input
	Net Name	N995406
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
V+ : P6/U4/V+	Name	V+
	Number	5
	Swap Id	-1
	Type	Power
	Net Name	AVDD_3V3
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
INS999764 : P6/D9	Name	INS999764
	ID	7299
	Reference	D9
	Designator	
	Part Reference	D9
	Value	STS321033B401
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	SOD323
	Manufacturer	Eaton - Electronics Division
	Manufacturer PN	STS321033B401
	Description	TVS DIODE ESD SOD-323 3.3V 40PF
	Digi-Key PN	283-STS321033B401CT-ND
	digikey_id	{distributorPn:283-STS321033B401CT-ND,mfr:Eaton - Electronics Division,mpn:STS321033B401}
	Distributor PN	
	Distributor	
	Filename	

Object	Property Name	Property Value
1 : P6/D9/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	VINx-
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P6/D9/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	VINx+
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS995424 : P6/R5	Name	INS995424
	ID	5156
	Reference	R5
	Designator	
	Part Reference	R5
	Value	9k76
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	digikey_id	{distributorPn:311-9.76KHRCT-ND,mfr:Yageo,mpn:RC0603FR-079K76L,ul:0603}
	Digi-Key PN	311-9.76KHRCT-ND
	Description	RES SMD 9.76K OHM 1% 1/10W 0603
	Manufacturer PN	RC0603FR-079K76L
	Manufacturer	Yageo

Object	Property Name	Property Value
1 : P6/R5/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N995498
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P6/R5/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	1V65_REF
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1079662 : P6/TP19	Name	INS1079662
	ID	8587
	Reference	TP19
	Designator	
	Part Reference	TP19
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P6/TP19/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N995010
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS995026 : P6/R2	Name	INS995026
	ID	5159
	Reference	R2
	Designator	
	Part Reference	R2
	Value	1Meg
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:RMCF0603FT1M00CT-ND,mfr:Stackpole Electronics Inc,mpn:R
	Digi-Key PN	RMCF0603FT1M00CT-ND
	Description	RES 1M OHM 1% 1/10W 0603
	Manufacturer PN	RMCF0603FT1M00
	Manufacturer	Stackpole Electronics Inc
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P6/R2/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	VINx-
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P6/R2/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N995010
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS995232 : P6/R7	Name	INS995232
	ID	5150
	Reference	R7
	Designator	
	Part Reference	R7
	Value	1k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-071KL
	Description	RES SMD 1K OHM 1% 1/10W 0603
	Digi-Key PN	311-1.00KHRCT-ND
	digikey_id	{distributorPn:311-1.00KHRCT-ND,mfr:Yageo,mpn:RC0603FR-071KL,ul:{uid:R}

Object	Property Name	Property Value
1 : P6/R7/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	1V65_REF
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P6/R7/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS994832 : P6/R1	Name	INS994832
	ID	5113
	Reference	R1
	Designator	
	Part Reference	R1
	Value	1Meg
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:RMCF0603FT1M00CT-ND,mfr:Stackpole Electronics Inc,mpn:R
	Digi-Key PN	RMCF0603FT1M00CT-ND
	Description	RES 1M OHM 1% 1/10W 0603
	Manufacturer PN	RMCF0603FT1M00
	Manufacturer	Stackpole Electronics Inc
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P6/R1/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	VINx+
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P6/R1/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N994718
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
Line	Name	I998418
	Color	Default
	Start X-Coordinate	10
	Start Y-Coordinate	650
	End X-Coordinate	510
	End Y-Coordinate	650

Object	Property Name	Property Value
Capacitor are 0603 -20% 16V unless otherwise noted	Name	I998406
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	515
	Bounding Box Top	680
	Bounding Box Bottom	696
	Text	Capacitor are 0603 -20% 16V unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	680
	Font	Courier New

Object	Property Name	Property Value
Resistors are 0603 -1% 1/10W unless otherwise noted	Name	I998412
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	525
	Bounding Box Top	660
	Bounding Box Bottom	676
	Text	Resistors are 0603 -1% 1/10W unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	660
	Font	Courier New

Object	Property Name	Property Value
Place TVS as close as possible to AI connector	Name	I999738
	Color	Default
	Bounding Box Left	20
	Bounding Box Right	216
	Bounding Box Top	320
	Bounding Box Bottom	346
	Text	Place TVS as close as possible to AI connector
	Text Location X-Coordinate	20
	Text Location Y-Coordinate	320
	Font	Courier New

Object	Property Name	Property Value
TVS Bidir Vr = 3.3V Vbr = 3.6V	Name	I999744
	Color	Default
	Bounding Box Left	70
	Bounding Box Right	154
	Bounding Box Top	280
	Bounding Box Bottom	319
	Text	TVS Bidir Vr = 3.3V Vbr = 3.6V
	Text Location X-Coordinate	70
	Text Location Y-Coordinate	280
	Font	Courier New

Object	Property Name	Property Value
Analog input -3.3V 12 bits resolution	Name	I1081266
	Color	Default
	Bounding Box Left	790
	Bounding Box Right	938
	Bounding Box Top	10
	Bounding Box Bottom	36
	Text	Analog input -3.3V 12 bits resolution
	Text Location X-Coordinate	790
	Text Location Y-Coordinate	10
	Font	Courier New

Object	Property Name	Property Value
Fs(max) = 1/(2*pi*1Meg*15pF) Fs(max) = 10.6kHz ~ 10k <sub>Hz</sub>	Name	I1093418
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	238
	Bounding Box Top	360
	Bounding Box Bottom	386
	Text	Fs(max) = 1/(2*pi*1Meg*15pF) Fs(max) = 10.6kHz ~ 10k <sub>Hz</sub>
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	360
	Font	Courier New

Object	Property Name	Property Value
N994718 : P7/N994718 (Wire ID = 994718 )	Color	Default
N994718 : P7/N994718 (Wire ID = 994718 )	Name	N994718

Object	Property Name	Property Value
N994718 : P7/N994718 (Wire ID = 994722 )	Color	Default
N994718 : P7/N994718 (Wire ID = 994722 )	Name	N994718

Object	Property Name	Property Value
ADCINx : P7/ADCINX (Wire ID = 994726 )	Color	Default
ADCINx : P7/ADCINX (Wire ID = 994726 )	Name	ADCINX

Object	Property Name	Property Value
ADCINx : P7/ADCINX (Wire ID = 994730 )	Color	Default
ADCINx : P7/ADCINX (Wire ID = 994730 )	Name	ADCINX

Object	Property Name	Property Value
AVDD_3V3 : P7/AVDD_3V3 (Wire ID = 994742 )	Color	Default
AVDD_3V3 : P7/AVDD_3V3 (Wire ID = 994742 )	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P7/AVDD_3V3 (Wire ID = 994762 )	Color	Default
AVDD_3V3 : P7/AVDD_3V3 (Wire ID = 994762 )	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P7/AVDD_3V3 (Wire ID = 994766 )	Color	Default
AVDD_3V3 : P7/AVDD_3V3 (Wire ID = 994766 )	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P7/AVDD_3V3 (Wire ID = 994770 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
DGND : P7/DGND (Wire ID = 994856 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P7/DGND (Wire ID = 994860 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N994718 : P7/N994718 (Wire ID = 994876 )	Color	Default
	Name	N994718

Object	Property Name	Property Value
N994718 : P7/N994718 (Wire ID = 994880 )	Color	Default
	Name	N994718

Object	Property Name	Property Value
N994718 : P7/N994718 (Wire ID = 994884 )	Color	Default
	Name	N994718

Object	Property Name	Property Value
N994718 : P7/N994718 (Wire ID = 994888 )	Color	Default
	Name	N994718

Object	Property Name	Property Value
DGND : P7/DGND (Wire ID = 994900 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N994718 : P7/N994718 (Wire ID = 994992 )	Color	Default
	Name	N994718

Object	Property Name	Property Value
ADCINx : P7/ADCINX (Wire ID = 995006 )	Color	Default
	Name	ADCINX

Object	Property Name	Property Value
N995010 : P7/N995010 (Wire ID = 995010 )	Color	Default
	Name	N995010

Object	Property Name	Property Value
N995010 : P7/N995010 (Wire ID = 995014 )	Color	Default
	Name	N995010

Object	Property Name	Property Value
N995010 : P7/N995010 (Wire ID = 995018 )	Color	Default
	Name	N995010

Object	Property Name	Property Value
N995010 : P7/N995010 (Wire ID = 995058 )	Color	Default
	Name	N995010

Object	Property Name	Property Value
N995010 : P7/N995010 (Wire ID = 995062 )	Color	Default
	Name	N995010

Object	Property Name	Property Value
N995010 : P7/N995010 (Wire ID = 995066 )	Color	Default
	Name	N995010

Object	Property Name	Property Value
AVDD_3V3 : P7/AVDD_3V3 (Wire ID = 995078 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
DGND : P7/DGND (Wire ID = 995082 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
AVDD_3V3 : P7/AVDD_3V3 (Wire ID = 995094 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P7/AVDD_3V3 (Wire ID = 995098 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P7/AVDD_3V3 (Wire ID = 995102 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P7/AVDD_3V3 (Wire ID = 995106 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P7/AVDD_3V3 (Wire ID = 995110 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
DGND : P7/DGND (Wire ID = 995226 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P7/DGND (Wire ID = 995230 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P7/DGND (Wire ID = 995256 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P7/DGND (Wire ID = 995260 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
1V65_REF : P7/1V65_REF (Wire ID = 995354 )	Color	Default
	Name	1V65_REF

Object	Property Name	Property Value
1V65_REF : P7/1V65_REF (Wire ID = 995376 )	Color	Default
	Name	1V65_REF

Object	Property Name	Property Value
1V65_REF : P7/1V65_REF (Wire ID = 995390 )	Color	Default
	Name	1V65_REF

Object	Property Name	Property Value
1V65_REF : P7/1V65_REF (Wire ID = 995394 )	Color	Default
	Name	1V65_REF

Object	Property Name	Property Value
1V65_REF : P7/1V65_REF (Wire ID = 995398 )	Color	Default
	Name	1V65_REF

Object	Property Name	Property Value
N995010 : P7/N995010 (Wire ID = 995402 )	Color	Default
	Name	N995010

Object	Property Name	Property Value
N995406 : P7/N995406 (Wire ID = 995406 )	Color	Default
	Name	N995406

Object	Property Name	Property Value
N995406 : P7/N995406 (Wire ID = 995410 )	Color	Default
	Name	N995406

Object	Property Name	Property Value
N995406 : P7/N995406 (Wire ID = 995414 )	Color	Default
	Name	N995406

Object	Property Name	Property Value
N995406 : P7/N995406 (Wire ID = 995418 )	Color	Default
	Name	N995406

Object	Property Name	Property Value
N995406 : P7/N995406 (Wire ID = 995422 )	Color	Default
	Name	N995406

Object	Property Name	Property Value
DGND : P7/DGND (Wire ID = 995444 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N995498 : P7/N995498 (Wire ID = 995498 )	Color	Default
	Name	N995498

Object	Property Name	Property Value
N995498 : P7/N995498 (Wire ID = 995502 )	Color	Default
	Name	N995498

Object	Property Name	Property Value
N995498 : P7/N995498 (Wire ID = 995506 )	Color	Default
	Name	N995498

Object	Property Name	Property Value
N995406 : P7/N995406 (Wire ID = 995510 )	Color	Default
	Name	N995406

Object	Property Name	Property Value
DGND : P7/DGND (Wire ID = 995554 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P7/DGND (Wire ID = 995558 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P7/DGND (Wire ID = 995566 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P7/DGND (Wire ID = 995570 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
VINX+ : P7/VINX+ (Wire ID = 999754 )	Color	Default
	Name	VINX+

Object	Property Name	Property Value
VINx+ : P7/VINX+ (Wire ID = 999758 )	Color	Default
	Name	VINX+

Object	Property Name	Property Value
VINx+ : P7/VINX+ (Wire ID = 999762 )	Color	Default
	Name	VINX+

Object	Property Name	Property Value
VINx- : P7/VINX- (Wire ID = 999784 )	Color	Default
	Name	VINX-

Object	Property Name	Property Value
VINx- : P7/VINX- (Wire ID = 999788 )	Color	Default
	Name	VINX-

Object	Property Name	Property Value
VINx- : P7/VINX- (Wire ID = 999792 )	Color	Default
	Name	VINX-

Object	Property Name	Property Value
ADCINx : P7/ADCINX (Wire ID = 1001574 )	Color	Default
	Name	ADCINX

Object	Property Name	Property Value
ADCINx : P7/ADCINX (Wire ID = 1001594 )	Color	Default
	Name	ADCINX

Object	Property Name	Property Value
N994718 : P7/N994718 (Wire ID = 1001609 )	Color	Default
	Name	N994718

Object	Property Name	Property Value
N994718 : P7/N994718 (Wire ID = 1001615 )	Color	Default
	Name	N994718

Object	Property Name	Property Value
DGND : P7/DGND (Wire ID = 1003142 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P7/DGND (Wire ID = 1003144 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
ADCINx : P7/ADCINX (Wire ID = 1003183 )	Color	Default
	Name	ADCINX

Object	Property Name	Property Value
DGND : P7/DGND (Wire ID = 1003249 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
AVDD_3V3 : P7/AVDD_3V3 (Wire ID = 1003425 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
ADCINx : P7/ADCINX (Wire ID = 1079606 )	Color	Default
	Name	ADCINX

Object	Property Name	Property Value
N995406 : P7/N995406 (Wire ID = 1079644 )	Color	Default
	Name	N995406

Object	Property Name	Property Value
N995010 : P7/N995010 (Wire ID = 1079682 )	Color	Default
	Name	N995010

Object	Property Name	Property Value
AVDD_3V3 : P7/AVDD_3V3 (Wire ID = 1088695 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3	Name	AVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
AVDD_3V3	Name	AVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
AVDD_3V3	Name	AVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
VINx+ : P7/VINx+	Name	VINx+
	Number	
	Swap Id	-1
	Type	Input
	Net Name	AN1_V+
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
ADCINx : P7/ADCINx	Name	ADCINx
	Number	
	Swap Id	-1
	Type	Output
	Net Name	AIN_AN1
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
VINx- : P7/VINx-	Name	VINx-
	Number	
	Swap Id	-1
	Type	Input
	Net Name	AN1_V-
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
TitleBlockIntellitrol : P7/TitleBlockIntellitrol	Schematic Page Count	2
	Schematic Page Number	2
	Page Number	7
	Page Count	21
	Path Name	P7/TitleBlockIntellitrol
	Schematic Path	/P7
	ID	8905
	Doc	
	RevCode	0B
	Cage Code	
	Title	Analog input -3V3
	OrgName	Jean-Francois Bilodeau, B.E.Eng
	OrgAddr1	CPI/CEP #6022173
	OrgAddr2	925 Chemin ste-foy apt4, QC, CANADA
	OrgAddr3	
	OrgAddr4	
	Name	TitleBlockIntellitrol
	Design Name	DSPEAK-V1_00-0B
	Design File Name	C:\USERS\JEANF\DESKTOP\GIT\DSPEAK\HARDWA
	Design Create Date	Friday, November 13, 2020
	Design Modify Date	Thursday, March 25, 2021
	Design Create Time	18:59:24
	Design Modify Time	19:51:15
	Schematic Name	ANALOG INPUT -3V3
	Schematic Create Date	Saturday, November 21, 2020
	Schematic Modify Date	Thursday, March 25, 2021
	Schematic Create Time	11:58:52
	Schematic Modify Time	18:28:54
	Page Size	A
	Page Create Date	Saturday, November 21, 2020
	Page Modify Date	Thursday, March 25, 2021
	Page Create Time	11:58:50
	Page Modify Time	18:28:53
	Color	Default
	Source Library	C:\USERS\JEANF\GOOGLE DRIVE\ORCAD16LIB\PIECE\PART.OLB
	Source Symbol	TitleBlockIntellitrol
	Page Name	ANALOG INPUT -3V3

Object	Property Name	Property Value
INS1002798 : P7/U5	Name	INS1002798
	ID	8207
	Reference	U5
	Designator	
	Part Reference	U5
	Value	TLV333
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:296-43777-1-ND,mfr:Texas Instruments}
	Digi-Key PN	296-43777-1-ND
	Description	IC OPAMP ZER-DRIFT 1CIRC SOT23-5
	Manufacturer PN	TLV333IDBVR
	Manufacturer	Texas Instruments
	PCB Footprint	sot23-5
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
OUT : P7/U5/OUT	Name	OUT
	Number	1
	Swap Id	-1
	Type	Power
	Net Name	ADCINx
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
V- : P7/U5/V-	Name	V-
	Number	2
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
IN+ : P7/U5/IN+	Name	IN+
	Number	3
	Swap Id	-1
	Type	Input
	Net Name	N995010
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
IN- : P7/U5/IN-	Name	IN-
	Number	4
	Swap Id	-1
	Type	Input
	Net Name	N994718
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
V+ : P7/U5/V+	Name	V+
	Number	5
	Swap Id	-1
	Type	Power
	Net Name	AVDD_3V3
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
INS1079586 : P7/TP22	Name	INS1079586
	ID	8581
	Reference	TP22
	Designator	
	Part Reference	TP22
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P7/TP22/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	ADCINx
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS995356 : P7/R11	Name	INS995356
	ID	5268
	Reference	R11
	Designator	
	Part Reference	R11
	Value	499k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:RMCF0603FT499KCT-ND,mfr:Stackpole Electronics Inc,mpn:RMC
	Digi-Key PN	RMCF0603FT499KCT-ND
	Description	RES 499K OHM 1% 1/10W 0603
	Manufacturer PN	RMCF0603FT499K
	Manufacturer	Stackpole Electronics Inc
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P7/R11/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N995010
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P7/R11/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N995406
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS995446 : P7/D12	Name	INS995446
	ID	5204
	Reference	D12
	Designator	
	Part Reference	D12
	Value	LM4041
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	sot23-3
	Manufacturer	Texas Instruments
	Manufacturer PN	LM4041CIM3-ADJ/NOPB
	Description	IC VREF SHUNT 10V 0.5% SOT23-3
	Digi-Key PN	LM4041CIM3-ADJ/NOPBCT-ND
	digikey_id	{distributorPn:LM4041CIM3-ADJ/NOPBCT-ND,mfr:Texas Instruments,mpn:LM
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
FB : P7/D12/FB	Name	FB
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N995498
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
C : P7/D12/C	Name	C
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	1V65_REF
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
A : P7/D12/A	Name	A
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
INS1079701 : P7/TP21	Name	INS1079701
	ID	8593
	Reference	TP21
	Designator	
	Part Reference	TP21
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P7/TP21/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N994718
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS994972 : P7/C7	Name	INS994972
	ID	5226
	Reference	C7
	Designator	
	Part Reference	C7
	Value	15pF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:1276-2189-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10C1
	Digi-Key PN	1276-2189-1-ND
	Description	CAP CER 15PF 50V C0G/NP0 0603
	Manufacturer PN	CL10C150JB81PNC
	Manufacturer	Samsung Electro-Mechanics
	PCB Footprint	0603_cap_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P7/C7/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N994718
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P7/C7/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N995010
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS995180 : P7/C11	Name	INS995180
	ID	5247
	Reference	C11
	Designator	
	Part Reference	C11
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P7/C11/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P7/C11/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1079624 : P7/TP24	Name	INS1079624
	ID	8585
	Reference	TP24
	Designator	
	Part Reference	TP24
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P7/TP24/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N995406
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1001556 : P7/C9	Name	INS1001556
	ID	8031
	Reference	C9
	Designator	
	Part Reference	C9
	Value	22pF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:478-1167-1-ND,mfr:AVX Corporation,mpn:06035A220JAT2A,ul:
	Digi-Key PN	478-1167-1-ND
	Description	CAP CER 22PF 50V C0G/NP0 0603
	Manufacturer PN	06035A220JAT2A
	Manufacturer	AVX Corporation
	PCB Footprint	0603_cap_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P7/C9/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N994718
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P7/C9/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	ADCINx
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS994790 : P7/C10	Name	INS994790
	ID	5259
	Reference	C10
	Designator	
	Part Reference	C10
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P7/C10/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P7/C10/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS995198 : P7/C12	Name	INS995198
	ID	5256
	Reference	C12
	Designator	
	Part Reference	C12
	Value	1nF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	AVX Corporation
	Manufacturer PN	06035C102KAT2A
	Description	CAP CER 1000PF 50V X7R 0603
	Digi-Key PN	478-1215-1-ND
	digikey_id	{distributorPn:478-1215-1-ND,mfr:AVX Corporation,mpn:06035C102KAT2A,ul}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P7/C12/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P7/C12/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS994698 : P7/R10	Name	INS994698
	ID	5223
	Reference	R10
	Designator	
	Part Reference	R10
	Value	499k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	Manufacturer	Stackpole Electronics Inc
	Manufacturer PN	RMCF0603FT499K
	Description	RES 499K OHM 1% 1/10W 0603
	Digi-Key PN	RMCF0603FT499KCT-ND
	digikey_id	{distributorPn:RMCF0603FT499KCT-ND,mfr:Stackpole Electronics Inc,mpn:R

Object	Property Name	Property Value
1 : P7/R10/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N994718
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P7/R10/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	ADCINx
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS995512 : P7/R13	Name	INS995512
	ID	5208
	Reference	R13
	Designator	
	Part Reference	R13
	Value	3k3
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:RMCF0603FT3K30CT-ND,mfr:Stackpole Electronics Inc,mpn:RMCF0603FT3K30CT-ND}
	Digi-Key PN	RMCF0603FT3K30CT-ND
	Description	RES 3.3K OHM 1% 1/10W 0603
	Manufacturer PN	RMCF0603FT3K30
	Manufacturer	Stackpole Electronics Inc
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P7/R13/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P7/R13/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N995498
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS994808 : P7/C8	Name	INS994808
	ID	5262
	Reference	C8
	Designator	
	Part Reference	C8
	Value	1nF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	AVX Corporation
	Manufacturer PN	06035C102KAT2A
	Description	CAP CER 1000PF 50V X7R 0603
	Digi-Key PN	478-1215-1-ND
	digikey_id	{distributorPn:478-1215-1-ND,mfr:AVX Corporation,mpn:06035C102KAT2A,ul:
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P7/C8/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P7/C8/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS995288 : P7/U6	Name	INS995288
	ID	5232
	Reference	U6
	Designator	
	Part Reference	U6
	Value	TLV333
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:296-43777-1-ND,mfr:Texas Instruments,mpn:TLV333IDBVR,ul:
	Digi-Key PN	296-43777-1-ND
	Description	IC OPAMP ZER-DRIFT 1CIRC SOT23-5
	Manufacturer PN	TLV333IDBVR
	Manufacturer	Texas Instruments
	PCB Footprint	sot23-5

Object	Property Name	Property Value
OUT : P7/U6/OUT	Name	OUT
	Number	1
	Swap Id	-1
	Type	Power
	Net Name	N995406
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
V- : P7/U6/V-	Name	V-
	Number	2
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
IN+ : P7/U6/IN+	Name	IN+
	Number	3
	Swap Id	-1
	Type	Input
	Net Name	1V65_REF
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
IN- : P7/U6/IN-	Name	IN-
	Number	4
	Swap Id	-1
	Type	Input
	Net Name	N995406
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
V+ : P7/U6/V+	Name	V+
	Number	5
	Swap Id	-1
	Type	Power
	Net Name	AVDD_3V3
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
INS999764 : P7/D11	Name	INS999764
	ID	7302
	Reference	D11
	Designator	
	Part Reference	D11
	Value	STS321033B401
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	SOD323
	Manufacturer	Eaton - Electronics Division
	Manufacturer PN	STS321033B401
	Description	TVS DIODE ESD SOD-323 3.3V 40PF
	Digi-Key PN	283-STS321033B401CT-ND
	digikey_id	{distributorPn:283-STS321033B401CT-ND,mfr:Eaton - Electronics Division,mpn:STS321033B401}
	Distributor PN	
	Distributor	
	Filename	

Object	Property Name	Property Value
1 : P7/D11/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	VINx-
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P7/D11/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	VINx+
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS995424 : P7/R12	Name	INS995424
	ID	5265
	Reference	R12
	Designator	
	Part Reference	R12
	Value	9k76
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	digikey_id	{distributorPn:311-9.76KHRCT-ND,mfr:Yageo,mpn:RC0603FR-079K76L,ul:0603FR-079K76L}
	Digi-Key PN	311-9.76KHRCT-ND
	Description	RES SMD 9.76K OHM 1% 1/10W 0603
	Manufacturer PN	RC0603FR-079K76L
	Manufacturer	Yageo

Object	Property Name	Property Value
1 : P7/R12/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N995498
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P7/R12/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	1V65_REF
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1079662 : P7/TP23	Name	INS1079662
	ID	8589
	Reference	TP23
	Designator	
	Part Reference	TP23
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P7/TP23/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N995010
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS995026 : P7/R9	Name	INS995026
	ID	5244
	Reference	R9
	Designator	
	Part Reference	R9
	Value	1Meg
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:RMCF0603FT1M00CT-ND,mfr:Stackpole Electronics Inc,mpn:R
	Digi-Key PN	RMCF0603FT1M00CT-ND
	Description	RES 1M OHM 1% 1/10W 0603
	Manufacturer PN	RMCF0603FT1M00
	Manufacturer	Stackpole Electronics Inc
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P7/R9/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	VINx-
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P7/R9/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N995010
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS995232 : P7/R14	Name	INS995232
	ID	5253
	Reference	R14
	Designator	
	Part Reference	R14
	Value	1k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-071KL
	Description	RES SMD 1K OHM 1% 1/10W 0603
	Digi-Key PN	311-1.00KHRCT-ND
	digikey_id	{distributorPn:311-1.00KHRCT-ND,mfr:Yageo,mpn:RC0603FR-071KL,ul:{uid:R}

Object	Property Name	Property Value
1 : P7/R14/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	1V65_REF
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P7/R14/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS994832 : P7/R8	Name	INS994832
	ID	5217
	Reference	R8
	Designator	
	Part Reference	R8
	Value	1Meg
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:RMCF0603FT1M00CT-ND,mfr:Stackpole Electronics Inc,mpn:R
	Digi-Key PN	RMCF0603FT1M00CT-ND
	Description	RES 1M OHM 1% 1/10W 0603
	Manufacturer PN	RMCF0603FT1M00
	Manufacturer	Stackpole Electronics Inc
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P7/R8/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	VINx+
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P7/R8/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N994718
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
Polygon	Name	I833643
	Color	Default
	Fill Style	Hollow Fill
	Hatch Style	Horizontal Hatch

Object	Property Name	Property Value
Line	Name	I838717
	Color	Default
	Start X-Coordinate	10
	Start Y-Coordinate	890
	End X-Coordinate	610
	End Y-Coordinate	890

Object	Property Name	Property Value
12MHz Codec MCLK Short trace on PCB No high-speed signals directly under Oscillator	Name	I833641
	Color	Default
	Bounding Box Left	1168
	Bounding Box Right	1372
	Bounding Box Top	430
	Bounding Box Bottom	482
	Text	12MHz Codec MCLK Short trace on PCB No high-speed signals directly under Oscillator
	Text Location X-Coordinate	1168
	Text Location Y-Coordinate	430
	Font	Courier New

Object	Property Name	Property Value
Capacitor are 0603 -20% 16V unless otherwise noted	Name	I838729
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	565
	Bounding Box Top	920
	Bounding Box Bottom	939
	Text	Capacitor are 0603 -20% 16V unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	920
	Font	Courier New

Object	Property Name	Property Value
Resistors are 0603 -1% 1/10W unless otherwise noted	Name	I838735
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	576
	Bounding Box Top	900
	Bounding Box Bottom	919
	Text	Resistors are 0603 -1% 1/10W unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	900
	Font	Courier New

Object	Property Name	Property Value
I2S Audio CODEC SPI config interface	Name	I1086071
	Color	Default
	Bounding Box Left	1320
	Bounding Box Right	1484
	Bounding Box Top	10
	Bounding Box Bottom	36
	Text	I2S Audio CODEC SPI config interface
	Text Location X-Coordinate	1320
	Text Location Y-Coordinate	10
	Font	Courier New

Object	Property Name	Property Value
DVDD_3V3 : P16/DVDD_3V3 (Wire ID = 815960 )	Color	Default
DVDD_3V3 : P16/DVDD_3V3 (Wire ID = 815960 )	Name	DVDD_3V3

Object	Property Name	Property Value
N830783 : P16/N830783 (Wire ID = 830783 )	Color	Default
N830783 : P16/N830783 (Wire ID = 830783 )	Name	N830783

Object	Property Name	Property Value
SPI3_nCS : P16/SPI3_NCS (Wire ID = 831068 )	Color	Default
SPI3_nCS : P16/SPI3_NCS (Wire ID = 831068 )	Name	SPI3_NCS

Object	Property Name	Property Value
SPI3_nCS : P16/SPI3_NCS (Wire ID = 831070 )	Color	Default
SPI3_nCS : P16/SPI3_NCS (Wire ID = 831070 )	Name	SPI3_NCS

Object	Property Name	Property Value
DVDD_1V8 : P16/DVDD_1V8 (Wire ID = 831098 )	Color	Default
DVDD_1V8 : P16/DVDD_1V8 (Wire ID = 831098 )	Name	DVDD_1V8

Object	Property Name	Property Value
DVDD_1V8 : P16/DVDD_1V8 (Wire ID = 831194 )	Color	Default
DVDD_1V8 : P16/DVDD_1V8 (Wire ID = 831194 )	Name	DVDD_1V8

Object	Property Name	Property Value
DGND : P16/DGND (Wire ID = 831279 )	Color	Default
DGND : P16/DGND (Wire ID = 831279 )	Name	DGND

Object	Property Name	Property Value
SPI3_SCLK : P16/SPI3_SCLK (Wire ID = 831297 )	Color	Default
SPI3_SCLK : P16/SPI3_SCLK (Wire ID = 831297 )	Name	SPI3_SCLK

Object	Property Name	Property Value
SPI3_SCLK : P16/SPI3_SCLK (Wire ID = 831299 )	Color	Default
SPI3_SCLK : P16/SPI3_SCLK (Wire ID = 831299 )	Name	SPI3_SCLK

Object	Property Name	Property Value
SPI3_MOSI : P16/SPI3_MOSI (Wire ID = 832308 )	Color	Default
	Name	SPI3_MOSI

Object	Property Name	Property Value
SPI3_MOSI : P16/SPI3_MOSI (Wire ID = 832310 )	Color	Default
	Name	SPI3_MOSI

Object	Property Name	Property Value
I2S_DIN : P16/I2S_DIN (Wire ID = 832341 )	Color	Default
	Name	I2S_DIN

Object	Property Name	Property Value
I2S_DIN : P16/I2S_DIN (Wire ID = 832343 )	Color	Default
	Name	I2S_DIN

Object	Property Name	Property Value
N832376 : P16/N832376 (Wire ID = 832376 )	Color	Default
	Name	N832376

Object	Property Name	Property Value
N832376 : P16/N832376 (Wire ID = 832378 )	Color	Default
	Name	N832376

Object	Property Name	Property Value
I2S_SCLK : P16/I2S_SCLK (Wire ID = 832400 )	Color	Default
	Name	I2S_SCLK

Object	Property Name	Property Value
I2S_SCLK : P16/I2S_SCLK (Wire ID = 832406 )	Color	Default
	Name	I2S_SCLK

Object	Property Name	Property Value
I2S_SCLK : P16/I2S_SCLK (Wire ID = 832408 )	Color	Default
	Name	I2S_SCLK

Object	Property Name	Property Value
I2S_COFS : P16/I2S_COFS (Wire ID = 832433 )	Color	Default
	Name	I2S_COFS

Object	Property Name	Property Value
I2S_COFS : P16/I2S_COFS (Wire ID = 832437 )	Color	Default
	Name	I2S_COFS

Object	Property Name	Property Value
I2S_COFS : P16/I2S_COFS (Wire ID = 832439 )	Color	Default
	Name	I2S_COFS

Object	Property Name	Property Value
DGND : P16/DGND (Wire ID = 832827 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P16/DGND (Wire ID = 832829 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P16/DGND (Wire ID = 833254 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P16/DGND (Wire ID = 833256 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P16/DGND (Wire ID = 833264 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P16/DGND (Wire ID = 833266 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DVDD_1V8 : P16/DVDD_1V8 (Wire ID = 833278 )	Color	Default
	Name	DVDD_1V8

Object	Property Name	Property Value
DVDD_1V8 : P16/DVDD_1V8 (Wire ID = 833280 )	Color	Default
	Name	DVDD_1V8

Object	Property Name	Property Value
DVDD_1V8 : P16/DVDD_1V8 (Wire ID = 833318 )	Color	Default
	Name	DVDD_1V8

Object	Property Name	Property Value
DVDD_1V8 : P16/DVDD_1V8 (Wire ID = 833322 )	Color	Default
	Name	DVDD_1V8

Object	Property Name	Property Value
DVDD_3V3 : P16/DVDD_3V3 (Wire ID = 833528 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P16/DVDD_3V3 (Wire ID = 833530 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P16/DVDD_3V3 (Wire ID = 833566 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P16/DVDD_3V3 (Wire ID = 833568 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P16/DVDD_3V3 (Wire ID = 833572 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DGND : P16/DGND (Wire ID = 833602 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P16/DGND (Wire ID = 833742 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N833767 : P16/N833767 (Wire ID = 833767 )	Color	Default
	Name	N833767

Object	Property Name	Property Value
N833767 : P16/N833767 (Wire ID = 833771 )	Color	Default
	Name	N833767

Object	Property Name	Property Value
DGND : P16/DGND (Wire ID = 833828 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P16/DGND (Wire ID = 833853 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P16/DGND (Wire ID = 833855 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P16/DGND (Wire ID = 833965 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P16/DGND (Wire ID = 834085 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : P16/DGND (Wire ID = 834087 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N834116 : P16/N834116 (Wire ID = 834116 )	Color	Default
	Name	N834116

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : P16/DGND (Wire ID = 834471 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : P16/DGND (Wire ID = 834475 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : P16/DGND (Wire ID = 834479 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N834116 : P16/N834116 (Wire ID = 834505 )	Color	Default
	Name	N834116

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N834116 : P16/N834116 (Wire ID = 834507 )	Color	Default
	Name	N834116

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N834116 : P16/N834116 (Wire ID = 834511 )	Color	Default
	Name	N834116

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N834116 : P16/N834116 (Wire ID = 834519 )	Color	Default
	Name	N834116

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N834116 : P16/N834116 (Wire ID = 834521 )	Color	Default
	Name	N834116

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N834116 : P16/N834116 (Wire ID = 834535 )	Color	Default
	Name	N834116

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N834116 : P16/N834116 (Wire ID = 834537 )	Color	Default
	Name	N834116

Object	Property Name	Property Value
N834776 : P16/N834776 (Wire ID = 834776 )	Color	Default
	Name	N834776

Object	Property Name	Property Value
DGND : P16/DGND (Wire ID = 834798 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N834834 : P16/N834834 (Wire ID = 834834 )	Color	Default
	Name	N834834

Object	Property Name	Property Value
N834834 : P16/N834834 (Wire ID = 834838 )	Color	Default
	Name	N834834

Object	Property Name	Property Value
N834843 : P16/N834843 (Wire ID = 834843 )	Color	Default
	Name	N834843

Object	Property Name	Property Value
N834843 : P16/N834843 (Wire ID = 834847 )	Color	Default
	Name	N834843

Object	Property Name	Property Value
N834852 : P16/N834852 (Wire ID = 834852 )	Color	Default
	Name	N834852

Object	Property Name	Property Value
N834852 : P16/N834852 (Wire ID = 834856 )	Color	Default
	Name	N834852

Object	Property Name	Property Value
N834861 : P16/N834861 (Wire ID = 834861 )	Color	Default
	Name	N834861

Object	Property Name	Property Value
N834861 : P16/N834861 (Wire ID = 834865 )	Color	Default
	Name	N834861

Object	Property Name	Property Value
N835069 : P16/N835069 (Wire ID = 835069 )	Color	Default
	Name	N835069

Object	Property Name	Property Value
N835079 : P16/N835079 (Wire ID = 835079 )	Color	Default
	Name	N835079

Object	Property Name	Property Value
N835079 : P16/N835079 (Wire ID = 835083 )	Color	Default
	Name	N835079

Object	Property Name	Property Value
N835069 : P16/N835069 (Wire ID = 835088 )	Color	Default
	Name	N835069

Object	Property Name	Property Value
DGND : P16/DGND (Wire ID = 835133 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N835846 : P16/N835846 (Wire ID = 835846 )	Color	Default
	Name	N835846

Object	Property Name	Property Value
DGND : P16/DGND (Wire ID = 835982 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P16/DGND (Wire ID = 835986 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P16/DGND (Wire ID = 835990 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N835846 : P16/N835846 (Wire ID = 836207 )	Color	Default
	Name	N835846

Object	Property Name	Property Value
N835846 : P16/N835846 (Wire ID = 836211 )	Color	Default
	Name	N835846

Object	Property Name	Property Value
N835846 : P16/N835846 (Wire ID = 836225 )	Color	Default
	Name	N835846

Object	Property Name	Property Value
N835846 : P16/N835846 (Wire ID = 836227 )	Color	Default
	Name	N835846

Object	Property Name	Property Value
N835846 : P16/N835846 (Wire ID = 836247 )	Color	Default
	Name	N835846

Object	Property Name	Property Value
N835846 : P16/N835846 (Wire ID = 836249 )	Color	Default
	Name	N835846

Object	Property Name	Property Value
N838192 : P16/N838192 (Wire ID = 838192 )	Color	Default
	Name	N838192

Object	Property Name	Property Value
N835069 : P16/N835069 (Wire ID = 838203 )	Color	Default
	Name	N835069

Object	Property Name	Property Value
N835069 : P16/N835069 (Wire ID = 838205 )	Color	Default
	Name	N835069

Object	Property Name	Property Value
N838192 : P16/N838192 (Wire ID = 838271 )	Color	Default
	Name	N838192

Object	Property Name	Property Value
N838192 : P16/N838192 (Wire ID = 838281 )	Color	Default
	Name	N838192

Object	Property Name	Property Value
LINEIN_L : P16/LINEIN_L (Wire ID = 838751 )	Color	Default
	Name	LINEIN_L

Object	Property Name	Property Value
LINEIN_R : P16/LINEIN_R (Wire ID = 838786 )	Color	Default
	Name	LINEIN_R

Object	Property Name	Property Value
LINEOUT_L : P16/LINEOUT_L (Wire ID = 838851 )	Color	Default
	Name	LINEOUT_L

Object	Property Name	Property Value
LINEOUT_R : P16/LINEOUT_R (Wire ID = 838860 )	Color	Default
	Name	LINEOUT_R

Object	Property Name	Property Value
I2S_DOUT : P16/I2S_DOUT (Wire ID = 843715 )	Color	Default
	Name	I2S_DOUT

Object	Property Name	Property Value
N833767 : P16/N833767 (Wire ID = 843816 )	Color	Default
	Name	N833767

Object	Property Name	Property Value
N833767 : P16/N833767 (Wire ID = 843818 )	Color	Default
	Name	N833767

Object	Property Name	Property Value
N835079 : P16/N835079 (Wire ID = 1003554 )	Color	Default
	Name	N835079

Object	Property Name	Property Value
DGND : P16/DGND (Wire ID = 1003603 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
HPOUT_L : P16/HPOUT_L (Wire ID = 1005369 )	Color	Default
	Name	HPOUT_L

Object	Property Name	Property Value
HPOUT_R : P16/HPOUT_R (Wire ID = 1005511 )	Color	Default
	Name	HPOUT_R

Object	Property Name	Property Value
HPOUT_R : P16/HPOUT_R (Wire ID = 1005605 )	Color	Default
	Name	HPOUT_R

Object	Property Name	Property Value
HPOUT_GND : P16/HPOUT_GND (Wire ID = 1009424 )	Color	Default
	Name	HPOUT_GND

Object	Property Name	Property Value
HPOUT_L : P16/HPOUT_L (Wire ID = 1009777 )	Color	Default
	Name	HPOUT_L

Object	Property Name	Property Value
HPOUT_L : P16/HPOUT_L (Wire ID = 1009781 )	Color	Default
	Name	HPOUT_L

Object	Property Name	Property Value
HPOUT_L : P16/HPOUT_L (Wire ID = 1009791 )	Color	Default
	Name	HPOUT_L

Object	Property Name	Property Value
HPOUT_R : P16/HPOUT_R (Wire ID = 1009828 )	Color	Default
	Name	HPOUT_R

Object	Property Name	Property Value
HPOUT_R : P16/HPOUT_R (Wire ID = 1009923 )	Color	Default
	Name	HPOUT_R

Object	Property Name	Property Value
DGND : P16/DGND (Wire ID = 1010321 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P16/DGND (Wire ID = 1010325 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
LINEOUT_L : P16/LINEOUT_L (Wire ID = 1010521 )	Color	Default
	Name	LINEOUT_L

Object	Property Name	Property Value
LINEOUT_L : P16/LINEOUT_L (Wire ID = 1010525 )	Color	Default
	Name	LINEOUT_L

Object	Property Name	Property Value
LINEOUT_L : P16/LINEOUT_L (Wire ID = 1010527 )	Color	Default
	Name	LINEOUT_L

Object	Property Name	Property Value
DGND : P16/DGND (Wire ID = 1010533 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P16/DGND (Wire ID = 1010543 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P16/DGND (Wire ID = 1010547 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
LINEOUT_L : P16/LINEOUT_L (Wire ID = 1010566 )	Color	Default
	Name	LINEOUT_L

Object	Property Name	Property Value
LINEOUT_L : P16/LINEOUT_L (Wire ID = 1010570 )	Color	Default
	Name	LINEOUT_L

Object	Property Name	Property Value
LINEOUT_L : P16/LINEOUT_L (Wire ID = 1010582 )	Color	Default
	Name	LINEOUT_L

Object	Property Name	Property Value
LINEOUT_R : P16/LINEOUT_R (Wire ID = 1010596 )	Color	Default
	Name	LINEOUT_R

Object	Property Name	Property Value
LINEOUT_R : P16/LINEOUT_R (Wire ID = 1010600 )	Color	Default
	Name	LINEOUT_R

Object	Property Name	Property Value
LINEOUT_R : P16/LINEOUT_R (Wire ID = 1010602 )	Color	Default
	Name	LINEOUT_R

Object	Property Name	Property Value
LINEOUT_R : P16/LINEOUT_R (Wire ID = 1010608 )	Color	Default
	Name	LINEOUT_R

Object	Property Name	Property Value
LINEOUT_R : P16/LINEOUT_R (Wire ID = 1010612 )	Color	Default
	Name	LINEOUT_R

Object	Property Name	Property Value
LINEOUT_R : P16/LINEOUT_R (Wire ID = 1010616 )	Color	Default
	Name	LINEOUT_R

Object	Property Name	Property Value
DGND : P16/DGND (Wire ID = 1010626 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P16/DGND (Wire ID = 1010628 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P16/DGND (Wire ID = 1010632 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P16/DGND (Wire ID = 1010708 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P16/DGND (Wire ID = 1010743 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
MIC_IN : P16/MIC_IN (Wire ID = 1010846 )	Color	Default
	Name	MIC_IN

Object	Property Name	Property Value
MIC_IN : P16/MIC_IN (Wire ID = 1010850 )	Color	Default
	Name	MIC_IN

Object	Property Name	Property Value
MIC_IN : P16/MIC_IN (Wire ID = 1010852 )	Color	Default
	Name	MIC_IN

Object	Property Name	Property Value
N838192 : P16/N838192 (Wire ID = 1010878 )	Color	Default
	Name	N838192

Object	Property Name	Property Value
N838192 : P16/N838192 (Wire ID = 1010882 )	Color	Default
	Name	N838192

Object	Property Name	Property Value
EXTMIC_IN_L : P16/EXTMIC_IN_L (Wire ID = 1011160 )	Color	Default
	Name	EXTMIC_IN_L

Object	Property Name	Property Value
EXTMIC_IN_R : P16/EXTMIC_IN_R (Wire ID = 1011164 )	Color	Default
	Name	EXTMIC_IN_R

Object	Property Name	Property Value
N1011168 : P16/N1011168 (Wire ID = 1011168 )	Color	Default
	Name	N1011168

Object	Property Name	Property Value
N1011168 : P16/N1011168 (Wire ID = 1011174 )	Color	Default
	Name	N1011168

Object	Property Name	Property Value
N1011168 : P16/N1011168 (Wire ID = 1011180 )	Color	Default
	Name	N1011168

Object	Property Name	Property Value
N1011168 : P16/N1011168 (Wire ID = 1011182 )	Color	Default
	Name	N1011168

Object	Property Name	Property Value
DVDD_3V3 : P16/DVDD_3V3 (Wire ID = 1013219 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
N1013246 : P16/N1013246 (Wire ID = 1013246 )	Color	Default
	Name	N1013246

Object	Property Name	Property Value
N1013246 : P16/N1013246 (Wire ID = 1013254 )	Color	Default
	Name	N1013246

Object	Property Name	Property Value
N833767 : P16/N833767 (Wire ID = 1079614 )	Color	Default
	Name	N833767

Object	Property Name	Property Value
LINEOUT_R : P16/LINEOUT_R (Wire ID = 1079650 )	Color	Default
	Name	LINEOUT_R

Object	Property Name	Property Value
LINEOUT_L : P16/LINEOUT_L (Wire ID = 1079689 )	Color	Default
	Name	LINEOUT_L

Object	Property Name	Property Value
LINEIN_L : P16/LINEIN_L (Wire ID = 1079800 )	Color	Default
	Name	LINEIN_L

Object	Property Name	Property Value
LINEIN_R : P16/LINEIN_R (Wire ID = 1079833 )	Color	Default
	Name	LINEIN_R

Object	Property Name	Property Value
N835079 : P16/N835079 (Wire ID = 1079915 )	Color	Default
	Name	N835079

Object	Property Name	Property Value
SPI3_MOSI : P16/SPI3_MOSI (Wire ID = 1080005 )	Color	Default
	Name	SPI3_MOSI

Object	Property Name	Property Value
SPI3_MOSI : P16/SPI3_MOSI (Wire ID = 1080005 )	Color	Default
	Name	SPI3_MOSI

Object	Property Name	Property Value
SPI3_SCLK : P16/SPI3_SCLK (Wire ID = 1080016 )	Color	Default
	Name	SPI3_SCLK

Object	Property Name	Property Value
SPI3_SCLK : P16/SPI3_SCLK (Wire ID = 1080020 )	Color	Default
	Name	SPI3_SCLK

Object	Property Name	Property Value
SPI3_nCS : P16/SPI3_NCS (Wire ID = 1080027 )	Color	Default
	Name	SPI3_NCS

Object	Property Name	Property Value
SPI3_nCS : P16/SPI3_NCS (Wire ID = 1080031 )	Color	Default
	Name	SPI3_NCS

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
I2S_DIN : P16/I2S_DIN (Wire ID = 1080311 )	Color	Default
	Name	I2S_DIN

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
I2S_DIN : P16/I2S_DIN (Wire ID = 1080315 )	Color	Default
	Name	I2S_DIN

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N832376 : P16/N832376 (Wire ID = 1080326 )	Color	Default
	Name	N832376

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N832376 : P16/N832376 (Wire ID = 1080330 )	Color	Default
	Name	N832376

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
I2S_SCLK : P16/I2S_SCLK (Wire ID = 1080341 )	Color	Default
	Name	I2S_SCLK

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
I2S_SCLK : P16/I2S_SCLK (Wire ID = 1080345 )	Color	Default
	Name	I2S_SCLK

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N835846 : P16/N835846 (Wire ID = 1080361 )	Color	Default
	Name	N835846

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
I2S_COFS : P16/I2S_COFS (Wire ID = 1080422 )	Color	Default
	Name	I2S_COFS

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
I2S_COFS : P16/I2S_COFS (Wire ID = 1080426 )	Color	Default
	Name	I2S_COFS

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
AVDD_3V3 : P16/AVDD_3V3 (Wire ID = 1461837 )	Color	Default
	Name	AVDD_3V3

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
AVDD_3V3 : P16/AVDD_3V3 (Wire ID = 1461839 )	Color	Default
	Name	AVDD_3V3

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N834116 : P16/N834116 (Wire ID = 1461844 )	Color	Default
	Name	N834116

Object	Property Name	Property Value
DVDD_3V3 : P16/DVDD_3V3 (Wire ID = 1461984 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P16/DVDD_3V3 (Wire ID = 1461986 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
N835846 : P16/N835846 (Wire ID = 1462000 )	Color	Default
	Name	N835846

Object	Property Name	Property Value
N835079 : P16/N835079 (Wire ID = 1471762 )	Color	Default
	Name	N835079

Object	Property Name	Property Value
N835079 : P16/N835079 (Wire ID = 1471777 )	Color	Default
	Name	N835079

Object	Property Name	Property Value
N835069 : P16/N835069 (Wire ID = 1471837 )	Color	Default
	Name	N835069

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DVDD_1V8	Name	DVDD_1V8
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
AVDD_3V3	Name	AVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
SPI3_nCS : P16/SPI3_nCS	Name	SPI3_nCS
	Number	
	Swap Id	-1
	Type	Input
	Net Name	SPI3_nCS
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
SPI3_MOSI : P16/SPI3_MOSI	Name	SPI3_MOSI
	Number	
	Swap Id	-1
	Type	Input
	Net Name	SPI3_MOSI
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
SPI3_SCLK : P16/SPI3_SCLK	Name	SPI3_SCLK
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	SPI3_SCLK
	Order	11
	Is No Connect	False

Object	Property Name	Property Value
I2S_DIN : P16/I2S_DIN	Name	I2S_DIN
	Number	
	Swap Id	-1
	Type	Input
	Net Name	I2S_DOUT
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
I2S_DOUT : P16/I2S_DOUT	Name	I2S_DOUT
	Number	
	Swap Id	-1
	Type	Output
	Net Name	I2S_DIN
	Order	12
	Is No Connect	False

Object	Property Name	Property Value
I2S_SCLK : P16/I2S_SCLK	Name	I2S_SCLK
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	I2S_SCLK
	Order	8
	Is No Connect	False

Object	Property Name	Property Value
I2S_COFS : P16/I2S_COFS	Name	I2S_COFS
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	I2S_COFS
	Order	13
	Is No Connect	False

Object	Property Name	Property Value
LINEIN_L : P16/LINEIN_L	Name	LINEIN_L
	Number	
	Swap Id	-1
	Type	Input
	Net Name	N996116
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
LINEIN_R : P16/LINEIN_R	Name	LINEIN_R
	Number	
	Swap Id	-1
	Type	Input
	Net Name	N996104
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
LINEOUT_L : P16/LINEOUT_L	Name	LINEOUT_L
	Number	
	Swap Id	-1
	Type	Output
	Net Name	N840050
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
LINEOUT_R : P16/LINEOUT_R	Name	LINEOUT_R
	Number	
	Swap Id	-1
	Type	Output
	Net Name	N840038
	Order	10
	Is No Connect	False

Object	Property Name	Property Value
HPOUT_R : P16/HPOUT_R	Name	HPOUT_R
	Number	
	Swap Id	-1
	Type	Output
	Net Name	N839661
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
HPOUT_L : P16/HPOUT_L	Name	HPOUT_L
	Number	
	Swap Id	-1
	Type	Output
	Net Name	N839673
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
MIC_IN : P16/MIC_IN	Name	MIC_IN
	Number	
	Swap Id	-1
	Type	Input
	Net Name	N840869
	Order	9
	Is No Connect	False

Object	Property Name	Property Value
HPOUT_GND : P16/HPOUT_GND	Name	HPOUT_GND
	Number	
	Swap Id	-1
	Type	Output
	Net Name	N839643
	Order	16
	Is No Connect	False

Object	Property Name	Property Value
EXTMIC_IN_L : P16/EXTMIC_IN_L	Name	EXTMIC_IN_L
	Number	
	Swap Id	-1
	Type	Input
	Net Name	N1291882
	Order	14
	Is No Connect	False

Object	Property Name	Property Value
EXTMIC_IN_R : P16/EXTMIC_IN_R	Name	EXTMIC_IN_R
	Number	
	Swap Id	-1
	Type	Input
	Net Name	N1291894
	Order	15
	Is No Connect	False

Object	Property Name	Property Value
TitleBlockIntellitrol : P16/TitleBlockIntellitrol	Schematic Page Count	1
	Schematic Page Number	1
	Page Number	8
	Page Count	21
	Path Name	P16/TitleBlockIntellitrol
	Schematic Path	/P16
	ID	8908
	Doc	
	RevCode	0B
	Cage Code	
	Title	I2S audio CODEC
	OrgName	Jean-Francois Bilodeau, B.E.Eng
	OrgAddr1	CPI/CEP #6022173
	OrgAddr2	925 Chemin ste-foy apt4, QC, CANADA
	OrgAddr3	
	OrgAddr4	
	Name	TitleBlockIntellitrol
	Design Name	DSPEAK-V1_00-0B
	Design File Name	C:\USERS\JEANF\DESKTOP\GIT\DSPEAK\HARDWARE\V1_00-0B\CAPTURE
	Design Create Date	Friday, November 13, 2020
	Design Modify Date	Thursday, March 25, 2021
	Design Create Time	18:59:24
	Design Modify Time	19:51:15
	Schematic Name	Audio codec
	Schematic Create Date	Sunday, November 15, 2020
	Schematic Modify Date	Thursday, March 25, 2021
	Schematic Create Time	07:46:36
	Schematic Modify Time	19:48:20
	Page Size	B
	Page Create Date	Sunday, November 15, 2020
	Page Modify Date	Thursday, March 25, 2021
	Page Create Time	07:46:34
	Page Modify Time	19:48:19
	Color	Default
	Source Library	C:\USERS\JEANF\GOOGLE DRIVE\ORCAD16LIB\PIECE\PART.OLB
	Source Symbol	TitleBlockIntellitrol
	Page Name	Audio codec

Object	Property Name	Property Value
INS1079813 : P16/TP40	Name	INS1079813
	ID	8659
	Reference	TP40
	Designator	
	Part Reference	TP40
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P16/TP40/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	LINEIN_R
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1079864 : P16/TP35	Name	INS1079864
	ID	8661
	Reference	TP35
	Designator	
	Part Reference	TP35
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P16/TP35/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N835069
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1010283 : P16/R45	Name	INS1010283
	ID	7962
	Reference	R45
	Designator	
	Part Reference	R45
	Value	100k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:311-100KHRCT-ND,mfr:Yageo,mpn:RC0603FR-07100KL,ul:100k}
	Digi-Key PN	311-100KHRCT-ND
	Description	RES SMD 100K OHM 1% 1/10W 0603
	Manufacturer PN	RC0603FR-07100KL
	Manufacturer	Yageo
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P16/R45/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P16/R45/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	LINEOUT_L
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1010301 : P16/R48	Name	INS1010301
	ID	7965
	Reference	R48
	Designator	
	Part Reference	R48
	Value	100k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:311-100KHRCT-ND,mfr:Yageo,mpn:RC0603FR-07100KL,ul:100k}
	Digi-Key PN	311-100KHRCT-ND
	Description	RES SMD 100K OHM 1% 1/10W 0603
	Manufacturer PN	RC0603FR-07100KL
	Manufacturer	Yageo
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P16/R48/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P16/R48/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	LINEOUT_R
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1010826 : P16/JP2	Name	INS1010826
	ID	7980
	Reference	JP2
	Designator	
	Part Reference	JP2
	Value	header3p100
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:S1012EC-03-ND,mfr:Sullins Connector Solutions,mpn:PREC003SAAN-RC}
	Digi-Key PN	S1012EC-03-ND
	Description	CONN HEADER VERT 3POS 2.54MM
	Manufacturer PN	PREC003SAAN-RC
	Manufacturer	Sullins Connector Solutions
	PCB Footprint	small_header3p100
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P16/JP2/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	MIC_IN
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P16/JP2/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N838192
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
3 : P16/JP2/3	Name	3
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	N1011168
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
INS832659 : P16/U16	Name	INS832659
	ID	1803
	Reference	U16
	Designator	
	Part Reference	U16
	Value	SIT2001B1
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:1473-SIT2001BI-S2-33E-12.000000D-ND,mfr:SiTime,mpn:SIT2001BI-S2-33E-12.000000D-ND}
	Digi-Key PN	1473-SIT2001BI-S2-33E-12.000000D-ND
	Description	MEMS OSC XO 12.0000MHZ H/LV-CMOS
	Manufacturer PN	SIT2001BI-S2-33E-12.000000D
	Manufacturer	SiTime
	PCB Footprint	sot23-5
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
GND : P16/U16/GND	Name	GND
	Number	1
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
NC : P16/U16/NC	Name	NC
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	1
	Is No Connect	True

Object	Property Name	Property Value
OE/SIT\ : P16/U16/OE/SIT\	Name	OE/SIT\
	Number	3
	Swap Id	-1
	Type	Input
	Net Name	N1013246
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
VDD : P16/U16/VDD	Name	VDD
	Number	4
	Swap Id	-1
	Type	Power
	Net Name	DVDD_3V3
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
OUT : P16/U16/OUT	Name	OUT
	Number	5
	Swap Id	-1
	Type	Output
	Net Name	N833767
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
INS838244 : P16/R50	Name	INS838244
	ID	1906
	Reference	R50
	Designator	
	Part Reference	R50
	Value	2k2
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:311-2.20KHRCT-ND,mfr:Yageo,mpn:RC0603FR-072K2L,ul:uid}
	Digi-Key PN	311-2.20KHRCT-ND
	Description	RES SMD 2.2K OHM 1% 1/10W 0603
	Manufacturer PN	RC0603FR-072K2L
	Manufacturer	Yageo
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P16/R50/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N835079
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P16/R50/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N838192
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1461821 : P16/FB3	Name	INS1461821
	ID	8969
	Reference	FB3
	Designator	
	Part Reference	FB3
	Value	BLM18PG121SN1D
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_fb
	Digi-Key PN	490-1037-1-ND
	digikey_id	{distributorPn:490-1037-1-ND,mfr:Murata Electronics,mpn:BLM18PG121SN1D}
	Manufacturer PN	BLM18PG121SN1D
	Manufacturer	Murata Electronics
	Distributor PN	490-1037-1-ND
	Distributor	Digi-Key
	Description	FERRITE BEAD 120 OHM 0603 1LN

Object	Property Name	Property Value
1 : P16/FB3/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P16/FB3/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N834116
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1079780 : P16/TP39	Name	INS1079780
	ID	8657
	Reference	TP39
	Designator	
	Part Reference	TP39
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P16/TP39/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	LINEIN_L
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1079594 : P16/TP33	Name	INS1079594
	ID	8647
	Reference	TP33
	Designator	
	Part Reference	TP33
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P16/TP33/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N833767
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1013175 : P16/R54	Name	INS1013175
	ID	8102
	Reference	R54
	Designator	
	Part Reference	R54
	Value	10k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-0710KL
	Description	RES SMD 10K OHM 1% 1/10W 0603
	Digi-Key PN	311-10.0KHRCT-ND
	digikey_id	{distributorPn:311-10.0KHRCT-ND,mfr:Yageo,mpn:RC0603FR-0710KL,ul:uid}

Object	Property Name	Property Value
1 : P16/R54/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P16/R54/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N1013246
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1003485 : P16/C53	Name	INS1003485
	ID	7255
	Reference	C53
	Designator	
	Part Reference	C53
	Value	1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B105MO8NNWC
	Description	CAP CER 1UF 16V X7R 0603
	Digi-Key PN	1276-6524-1-ND
	digikey_id	{distributorPn:1276-6524-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B105MO8NNWC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P16/C53/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P16/C53/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N835079
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS834778 : P16/C46	Name	INS834778
	ID	1833
	Reference	C46
	Designator	
	Part Reference	C46
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B1}
	Digi-Key PN	1276-1000-1-ND
	Description	CAP CER 0.1UF 50V X7R 0603
	Manufacturer PN	CL10B104KB8NNNC
	Manufacturer	Samsung Electro-Mechanics
	PCB Footprint	0603_cap_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P16/C46/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N834776
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P16/C46/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1010439 : P16/C42	Name	INS1010439
	ID	7968
	Reference	C42
	Designator	
	Part Reference	C42
	Value	220pF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10C221JB8NNNC
	Description	CAP CER 220PF 50V C0G/NP0 0603
	Digi-Key PN	1276-1048-1-ND
	digikey_id	{distributorPn:1276-1048-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10C2}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P16/C42/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	LINEOUT_R
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P16/C42/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1079987 : P16/TP27	Name	INS1079987
	ID	8669
	Reference	TP27
	Designator	
	Part Reference	TP27
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P16/TP27/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	SPI3_nCS
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1080225 : P16/TP29	Name	INS1080225
	ID	8675
	Reference	TP29
	Designator	
	Part Reference	TP29
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P16/TP29/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	I2S_SCLK
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1079630 : P16/TP37	Name	INS1079630
	ID	8649
	Reference	TP37
	Designator	
	Part Reference	TP37
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P16/TP37/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	LINEOUT_R
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS834882 : P16/C49	Name	INS834882
	ID	1841
	Reference	C49
	Designator	
	Part Reference	C49
	Value	1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	/distributorPn:1276-6524-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B1
	Digi-Key PN	1276-6524-1-ND
	Description	CAP CER 1uF 16V X7R 0603
	Manufacturer PN	CL10B105MO8NNWC
	Manufacturer	Samsung Electro-Mechanics
	PCB Footprint	0603_cap_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P16/C49/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N834861
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P16/C49/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	LINEIN_L
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS831143 : P16/C47	Name	INS831143
	ID	1779
	Reference	C47
	Designator	
	Part Reference	C47
	Value	1nF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	AVX Corporation
	Manufacturer PN	06035C102KAT2A
	Description	CAP CER 1000PF 50V X7R 0603
	Digi-Key PN	478-1215-1-ND
	digikey_id	{distributorPn:478-1215-1-ND,mfr:AVX Corporation,mpn:06035C102KAT2A,uln:
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P16/C47/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_1V8
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P16/C47/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS815962 : P16/R49	Name	INS815962
	ID	1708
	Reference	R49
	Designator	
	Part Reference	R49
	Value	10k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-0710KL
	Description	RES SMD 10K OHM 1% 1/10W 0603
	Digi-Key PN	311-10.0KHRCT-ND
	digikey_id	{distributorPn:311-10.0KHRCT-ND,mfr:Yageo,mpn:RC0603FR-0710KL,ul:{uid}}

Object	Property Name	Property Value
1 : P16/R49/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P16/R49/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N830783
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS831161 : P16/C48	Name	INS831161
	ID	1776
	Reference	C48
	Designator	
	Part Reference	C48
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P16/C48/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_1V8
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P16/C48/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS833711 : P16/C56	Name	INS833711
	ID	1818
	Reference	C56
	Designator	
	Part Reference	C56
	Value	DNP
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Distributor PN	
	Distributor	
	Manufacturer PN	
	Manufacturer	
	Description	

Object	Property Name	Property Value
1 : P16/C56/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N833767
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P16/C56/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS834952 : P16/C50	Name	INS834952
	ID	1844
	Reference	C50
	Designator	
	Part Reference	C50
	Value	1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:1276-6524-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B1
	Digi-Key PN	1276-6524-1-ND
	Description	CAP CER 1UF 16V X7R 0603
	Manufacturer PN	CL10B105MO8NNWC
	Manufacturer	Samsung Electro-Mechanics
	PCB Footprint	0603_cap_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P16/C50/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N834852
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P16/C50/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	LINEIN_R
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1011142 : P16/R53	Name	INS1011142
	ID	8001
	Reference	R53
	Designator	
	Part Reference	R53
	Value	0R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:311-0.0GRCT-ND,mfr:Yageo,mpn:RC0603JR-070RL,ul:(uid:9b3
	Digi-Key PN	311-0.0GRCT-ND
	Description	RES SMD 0 OHM JUMPER 1/10W 0603
	Manufacturer PN	RC0603JR-070RL
	Manufacturer	Yageo
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P16/R53/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N1011168
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P16/R53/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	EXTMIC_IN_R
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1079669 : P16/TP38	Name	INS1079669
	ID	8651
	Reference	TP38
	Designator	
	Part Reference	TP38
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P16/TP38/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	LINEOUT_L
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS830409 : P16/U15	Name	INS830409
	ID	1730
	Reference	U15
	Designator	
	Part Reference	U15
	Value	SGTL5000XNAA3
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:SGTL5000XNAA3-ND,mfr:NXP USA Inc.,mpn:SGTL5000XNAA3}
	Digi-Key PN	SGTL5000XNAA3-ND
	Description	IC AUDIO CODEC STEREO 32-QFN
	Manufacturer PN	SGTL5000XNAA3
	Manufacturer	NXP USA Inc.
	PCB Footprint	QFN32_0_5mm
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
GND : P16/U15/GND	Name	GND
	Number	1
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
HP_R : P16/U15/HP_R	Name	HP_R
	Number	2
	Swap Id	-1
	Type	Output
	Net Name	HPOUT_R
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
GND : P16/U15/GND	Name	GND
	Number	3
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
HP_VGND : P16/U15/HP_VGND	Name	HP_VGND
	Number	4
	Swap Id	-1
	Type	Power
	Net Name	HPOUT_GND
	Order	3
	Is No Connect	True

Object	Property Name	Property Value
VDDA : P16/U15/VDDA	Name	VDDA
	Number	5
	Swap Id	-1
	Type	Power
	Net Name	N834116
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
HP_L : P16/U15/HP_L	Name	HP_L
	Number	6
	Swap Id	-1
	Type	Output
	Net Name	HPOUT_L
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
AGND : P16/U15/AGND	Name	AGND
	Number	7
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
NC1 : P16/U15/NC1	Name	NC1
	Number	8
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	7
	Is No Connect	True

Object	Property Name	Property Value
NC2 : P16/U15/NC2	Name	NC2
	Number	9
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	8
	Is No Connect	True

Object	Property Name	Property Value
VAG : P16/U15/VAG	Name	VAG
	Number	10
	Swap Id	-1
	Type	Power
	Net Name	N834776
	Order	9
	Is No Connect	False

Object	Property Name	Property Value
LINEOUT_R : P16/U15/LINEOUT_R	Name	LINEOUT_R
	Number	11
	Swap Id	-1
	Type	Output
	Net Name	N834834
	Order	10
	Is No Connect	False

Object	Property Name	Property Value
LINEOUT_L : P16/U15/LINEOUT_L	Name	LINEOUT_L
	Number	12
	Swap Id	-1
	Type	Output
	Net Name	N834843
	Order	11
	Is No Connect	False

Object	Property Name	Property Value
LINEIN_R : P16/U15/LINEIN_R	Name	LINEIN_R
	Number	13
	Swap Id	-1
	Type	Input
	Net Name	N834852
	Order	12
	Is No Connect	False

Object	Property Name	Property Value
LINEIN_L : P16/U15/LINEIN_L	Name	LINEIN_L
	Number	14
	Swap Id	-1
	Type	Input
	Net Name	N834861
	Order	13
	Is No Connect	False

Object	Property Name	Property Value
MIC : P16/U15/MIC	Name	MIC
	Number	15
	Swap Id	-1
	Type	Input
	Net Name	N835069
	Order	14
	Is No Connect	False

Object	Property Name	Property Value
MIC_BIAS : P16/U15/MIC_BIAS	Name	MIC_BIAS
	Number	16
	Swap Id	-1
	Type	Power
	Net Name	N835079
	Order	15
	Is No Connect	False

Object	Property Name	Property Value
NC3 : P16/U15/NC3	Name	NC3
	Number	17
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	16
	Is No Connect	True

Object	Property Name	Property Value
CPFILT : P16/U15/CPFILT	Name	CPFILT
	Number	18
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	17
	Is No Connect	True

Object	Property Name	Property Value
NC4 : P16/U15/NC4	Name	NC4
	Number	19
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	18
	Is No Connect	True

Object	Property Name	Property Value
VDDIO : P16/U15/VDDIO	Name	VDDIO
	Number	20
	Swap Id	-1
	Type	Power
	Net Name	N835846
	Order	19
	Is No Connect	False

Object	Property Name	Property Value
SYS_MCLK : P16/U15/SYS_MCLK	Name	SYS_MCLK
	Number	21
	Swap Id	-1
	Type	Input
	Net Name	N833767
	Order	20
	Is No Connect	False

Object	Property Name	Property Value
NC5 : P16/U15/NC5	Name	NC5
	Number	22
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	21
	Is No Connect	True

Object	Property Name	Property Value
I2S_LRCLK : P16/U15/I2S_LRCLK	Name	I2S_LRCLK
	Number	23
	Swap Id	-1
	Type	Bidirectional
	Net Name	I2S_COFS
	Order	22
	Is No Connect	False

Object	Property Name	Property Value
I2C_SCLK : P16/U15/I2C_SCLK	Name	I2C_SCLK
	Number	24
	Swap Id	-1
	Type	Bidirectional
	Net Name	I2S_SCLK
	Order	23
	Is No Connect	False

Object	Property Name	Property Value
I2S_DOUT : P16/U15/I2S_DOUT	Name	I2S_DOUT
	Number	25
	Swap Id	-1
	Type	Output
	Net Name	N832376
	Order	24
	Is No Connect	False

Object	Property Name	Property Value
I2S_DIN : P16/U15/I2S_DIN	Name	I2S_DIN
	Number	26
	Swap Id	-1
	Type	Input
	Net Name	I2S_DIN
	Order	25
	Is No Connect	False

Object	Property Name	Property Value
CTRL_DATA : P16/U15/CTRL_DATA	Name	CTRL_DATA
	Number	27
	Swap Id	-1
	Type	Bidirectional
	Net Name	SPI3_MOSI
	Order	26
	Is No Connect	False

Object	Property Name	Property Value
NC6 : P16/U15/NC6	Name	NC6
	Number	28
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	27
	Is No Connect	True

Object	Property Name	Property Value
CTRL_CLK : P16/U15/CTRL_CLK	Name	CTRL_CLK
	Number	29
	Swap Id	-1
	Type	Bidirectional
	Net Name	SPI3_SCLK
	Order	28
	Is No Connect	False

Object	Property Name	Property Value
VDDD : P16/U15/VDDD	Name	VDDD
	Number	30
	Swap Id	-1
	Type	Power
	Net Name	DVDD_1V8
	Order	29
	Is No Connect	False

Object	Property Name	Property Value
CTRL_ADR0_CS : P16/U15/CTRL_ADR0_CS	Name	CTRL_ADR0_CS
	Number	31
	Swap Id	-1
	Type	Input
	Net Name	SPI3_nCS
	Order	30
	Is No Connect	False

Object	Property Name	Property Value
MODE : P16/U15/MODE	Name	MODE
	Number	32
	Swap Id	-1
	Type	Input
	Net Name	N830783
	Order	31
	Is No Connect	False

Object	Property Name	Property Value
GND_PAD : P16/U15/GND_PAD	Name	GND_PAD
	Number	33
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	32
	Is No Connect	False

Object	Property Name	Property Value
INS1080199 : P16/TP30	Name	INS1080199
	ID	8673
	Reference	TP30
	Designator	
	Part Reference	TP30
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P16/TP30/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N832376
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS835926 : P16/C55	Name	INS835926
	ID	1863
	Reference	C55
	Designator	
	Part Reference	C55
	Value	10uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0805_cap
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL21A106KOQNNNG
	Description	CAP CER 10uF 16V X5R 0805
	Digi-Key PN	1276-6455-1-ND
	digikey_id	{distributorPn:1276-6455-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL21A106KOQNNNG}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P16/C55/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N835846
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P16/C55/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1079961 : P16/TP26	Name	INS1079961
	ID	8667
	Reference	TP26
	Designator	
	Part Reference	TP26
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P16/TP26/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	SPI3_SCLK
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS843645 : P16/R51	Name	INS843645
	ID	5590
	Reference	R51
	Designator	
	Part Reference	R51
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,mpn:ERJ-2RK
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RK
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	0402_res_ipc

Object	Property Name	Property Value
1 : P16/R51/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N832376
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P16/R51/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	I2S_DOUT
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1011112 : P16/R52	Name	INS1011112
	ID	7998
	Reference	R52
	Designator	
	Part Reference	R52
	Value	DNP
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P16/R52/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N1011168
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P16/R52/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	EXTMIC_IN_L
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1080251 : P16/TP28	Name	INS1080251
	ID	8677
	Reference	TP28
	Designator	
	Part Reference	TP28
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P16/TP28/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	I2S_COFS
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS835944 : P16/C52	Name	INS835944
	ID	1866
	Reference	C52
	Designator	
	Part Reference	C52
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P16/C52/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N835846
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P16/C52/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1462054 : P16/FB4	Name	INS1462054
	ID	8978
	Reference	FB4
	Designator	
	Part Reference	FB4
	Value	BLM18PG121SN1D
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_fb
	Digi-Key PN	490-1037-1-ND
	digikey_id	{distributorPn:490-1037-1-ND,mfr:Murata Electronics,mpn:BLM18PG121SN1D}
	Manufacturer PN	BLM18PG121SN1D
	Manufacturer	Murata Electronics
	Distributor PN	490-1037-1-ND
	Distributor	Digi-Key
	Description	FERRITE BEAD 120 OHM 0603 1LN

Object	Property Name	Property Value
1 : P16/FB4/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N835846
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P16/FB4/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1080081 : P16/TP31	Name	INS1080081
	ID	8671
	Reference	TP31
	Designator	
	Part Reference	TP31
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P16/TP31/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	I2S_DIN
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS833548 : P16/C57	Name	INS833548
	ID	1815
	Reference	C57
	Designator	
	Part Reference	C57
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P16/C57/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P16/C57/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1079895 : P16/TP36	Name	INS1079895
	ID	8663
	Reference	TP36
	Designator	
	Part Reference	TP36
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P16/TP36/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N835079
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1079708 : P16/TP32	Name	INS1079708
	ID	8653
	Reference	TP32
	Designator	
	Part Reference	TP32
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P16/TP32/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	HPOUT_R
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS834415 : P16/C40	Name	INS834415
	ID	1824
	Reference	C40
	Designator	
	Part Reference	C40
	Value	10uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0805_cap
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL21A106KOQNNNG
	Description	CAP CER 10UF 16V X5R 0805
	Digi-Key PN	1276-6455-1-ND
	digikey_id	{distributorPn:1276-6455-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL21A106KOQNNNG}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P16/C40/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N834116
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P16/C40/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS838172 : P16/C54	Name	INS838172
	ID	1902
	Reference	C54
	Designator	
	Part Reference	C54
	Value	1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B105MO8NNWC
	Description	CAP CER 1UF 16V X7R 0603
	Digi-Key PN	1276-6524-1-ND
	digikey_id	{distributorPn:1276-6524-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B105MO8NNWC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P16/C54/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N835069
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P16/C54/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N838192
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS835962 : P16/C51	Name	INS835962
	ID	1860
	Reference	C51
	Designator	
	Part Reference	C51
	Value	1nF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	AVX Corporation
	Manufacturer PN	06035C102KAT2A
	Description	CAP CER 1000PF 50V X7R 0603
	Digi-Key PN	478-1215-1-ND
	digikey_id	{distributorPn:478-1215-1-ND,mfr:AVX Corporation,mpn:06035C102KAT2A,uln:
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P16/C51/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N835846
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P16/C51/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS835011 : P16/C44	Name	INS835011
	ID	1850
	Reference	C44
	Designator	
	Part Reference	C44
	Value	1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B105MO8NNWC
	Description	CAP CER 1UF 16V X7R 0603
	Digi-Key PN	1276-6524-1-ND
	digikey_id	{distributorPn:1276-6524-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B105MO8NNWC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P16/C44/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	LINEOUT_R
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P16/C44/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N834834
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS834433 : P16/C41	Name	INS834433
	ID	1827
	Reference	C41
	Designator	
	Part Reference	C41
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P16/C41/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N834116
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P16/C41/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1010485 : P16/C39	Name	INS1010485
	ID	7971
	Reference	C39
	Designator	
	Part Reference	C39
	Value	220pF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10C221JB8NNNC
	Description	CAP CER 220PF 50V C0G/NP0 0603
	Digi-Key PN	1276-1048-1-ND
	digikey_id	{distributorPn:1276-1048-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10C221JB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P16/C39/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	LINEOUT_L
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P16/C39/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1079931 : P16/TP25	Name	INS1079931
	ID	8665
	Reference	TP25
	Designator	
	Part Reference	TP25
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P16/TP25/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	SPI3_MOSI
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1079744 : P16/TP34	Name	INS1079744
	ID	8655
	Reference	TP34
	Designator	
	Part Reference	TP34
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P16/TP34/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	HPOUT_L
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS835029 : P16/C45	Name	INS835029
	ID	1847
	Reference	C45
	Designator	
	Part Reference	C45
	Value	1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B105MO8NNWC
	Description	CAP CER 1UF 16V X7R 0603
	Digi-Key PN	1276-6524-1-ND
	digikey_id	{distributorPn:1276-6524-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B105MO8NNWC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P16/C45/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	LINEOUT_L
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P16/C45/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N834843
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS834451 : P16/C43	Name	INS834451
	ID	1830
	Reference	C43
	Designator	
	Part Reference	C43
	Value	1nF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	AVX Corporation
	Manufacturer PN	06035C102KAT2A
	Description	CAP CER 1000PF 50V X7R 0603
	Digi-Key PN	478-1215-1-ND
	digikey_id	{distributorPn:478-1215-1-ND,mfr:AVX Corporation,mpn:06035C102KAT2A,u
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P16/C43/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N834116
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P16/C43/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
Line	Name	I986453
	Color	Default
	Start X-Coordinate	10
	Start Y-Coordinate	640
	End X-Coordinate	510
	End Y-Coordinate	640

Object	Property Name	Property Value
Capacitor are 0603 -20% 16V unless otherwise noted	Name	I986465
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	515
	Bounding Box Top	670
	Bounding Box Bottom	686
	Text	Capacitor are 0603 -20% 16V unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	670
	Font	Courier New

Object	Property Name	Property Value
Resistors are 0603 -1% 1/10W unless otherwise noted	Name	I986471
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	525
	Bounding Box Top	650
	Bounding Box Bottom	666
	Text	Resistors are 0603 -1% 1/10W unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	650
	Font	Courier New

Object	Property Name	Property Value
Fc = 564kHz	Name	I1080697
	Color	Default
	Bounding Box Left	660
	Bounding Box Right	752
	Bounding Box Top	370
	Bounding Box Bottom	383
	Text	Fc = 564kHz
	Text Location X-Coordinate	660
	Text Location Y-Coordinate	370
	Font	Courier New

Object	Property Name	Property Value
CAN bus interface CAN 2.0B support Max bitrate 550kbps	Name	I1081407
	Color	Default
	Bounding Box Left	790
	Bounding Box Right	946
	Bounding Box Top	10
	Bounding Box Bottom	49
	Text	CAN bus interface CAN 2.0B support Max bitrate 550kbps
	Text Location X-Coordinate	790
	Text Location Y-Coordinate	10
	Font	Courier New

Object	Property Name	Property Value
DVDD_3V3 : P4/DVDD_3V3 (Wire ID = 983183 )	Color	Default
DVDD_3V3 : P4/DVDD_3V3 (Wire ID = 983183 )	Name	DVDD_3V3

Object	Property Name	Property Value
CANH : P4/CANH (Wire ID = 983243 )	Color	Default
	DIFFERENTIAL_PAIR	
	Name	CANH

Object	Property Name	Property Value
CANH : P4/CANH (Wire ID = 983247 )	Color	Default
CANH : P4/CANH (Wire ID = 983247 )	DIFFERENTIAL_PAIR	
CANH : P4/CANH (Wire ID = 983247 )	Name	CANH

Object	Property Name	Property Value
CANH : P4/CANH (Wire ID = 983251 )	Color	Default
CANH : P4/CANH (Wire ID = 983251 )	DIFFERENTIAL_PAIR	
CANH : P4/CANH (Wire ID = 983251 )	Name	CANH

Object	Property Name	Property Value
CANH : P4/CANH (Wire ID = 983255 )	Color	Default
CANH : P4/CANH (Wire ID = 983255 )	DIFFERENTIAL_PAIR	
CANH : P4/CANH (Wire ID = 983255 )	Name	CANH

Object	Property Name	Property Value
CANH : P4/CANH (Wire ID = 983259 )	Color	Default
CANH : P4/CANH (Wire ID = 983259 )	DIFFERENTIAL_PAIR	
CANH : P4/CANH (Wire ID = 983259 )	Name	CANH

Object	Property Name	Property Value
N983415 : P4/N983415 (Wire ID = 983415 )	Color	Default
	Name	N983415

Object	Property Name	Property Value
CAN_TX : P4/CAN_TX (Wire ID = 983419 )	Color	Default
	Name	CAN_TX

Object	Property Name	Property Value
DGND : P4/DGND (Wire ID = 983451 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P4/DGND (Wire ID = 983455 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
CANL : P4/CANL (Wire ID = 983483 )	Color	Default
	DIFFERENTIAL_PAIR	
	Name	CANL

Object	Property Name	Property Value
DVDD_3V3 : P4/DVDD_3V3 (Wire ID = 983487 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
CAN_LBK : P4/CAN_LBK (Wire ID = 983497 )	Color	Default
	Name	CAN_LBK

Object	Property Name	Property Value
CANL : P4/CANL (Wire ID = 983539 )	Color	Default
	DIFFERENTIAL_PAIR	
	Name	CANL

Object	Property Name	Property Value
CANL : P4/CANL (Wire ID = 983543 )	Color	Default
	DIFFERENTIAL_PAIR	
	Name	CANL

Object	Property Name	Property Value
CANL : P4/CANL (Wire ID = 983547 )	Color	Default
	DIFFERENTIAL_PAIR	
	Name	CANL

Object	Property Name	Property Value
CANH : P4/CANH (Wire ID = 983625 )	Color	Default
	DIFFERENTIAL_PAIR	
	Name	CANH

Object	Property Name	Property Value
CANL : P4/CANL (Wire ID = 983637 )	Color	Default
	DIFFERENTIAL_PAIR	
	Name	CANL

Object	Property Name	Property Value
CANL : P4/CANL (Wire ID = 983637 )	Color	Default
	DIFFERENTIAL_PAIR	
	Name	CANL

Object	Property Name	Property Value
CAN_RX : P4/CAN_RX (Wire ID = 989069 )	Color	Default
	Name	CAN_RX

Object	Property Name	Property Value
DGND : P4/DGND (Wire ID = 992004 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N1002337 : P4/N1002337 (Wire ID = 1002337 )	Color	Default
	Name	N1002337

Object	Property Name	Property Value
CANH : P4/CANH (Wire ID = 1002675 )	Color	Default
	DIFFERENTIAL_PAIR	
	Name	CANH

Object	Property Name	Property Value
CANL : P4/CANL (Wire ID = 1002712 )	Color	Default
	DIFFERENTIAL_PAIR	
	Name	CANL

Object	Property Name	Property Value
DGND : P4/DGND (Wire ID = 1002837 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P4/DGND (Wire ID = 1002904 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N1003044 : P4/N1003044 (Wire ID = 1003044 )	Color	Default
	Name	N1003044

Object	Property Name	Property Value
N1003048 : P4/N1003048 (Wire ID = 1003048 )	Color	Default
	Name	N1003048

Object	Property Name	Property Value
N1003048 : P4/N1003048 (Wire ID = 1003058 )	Color	Default
	Name	N1003048

Object	Property Name	Property Value
N1003044 : P4/N1003044 (Wire ID = 1003078 )	Color	Default
	Name	N1003044

Object	Property Name	Property Value
N1003044 : P4/N1003044 (Wire ID = 1003082 )	Color	Default
	Name	N1003044

Object	Property Name	Property Value
N983415 : P4/N983415 (Wire ID = 1003102 )	Color	Default
	Name	N983415

Object	Property Name	Property Value
N1003048 : P4/N1003048 (Wire ID = 1003149 )	Color	Default
	Name	N1003048

Object	Property Name	Property Value
N1003048 : P4/N1003048 (Wire ID = 1003183 )	Color	Default
	Name	N1003048

Object	Property Name	Property Value
CAN_LBK : P4/CAN_LBK (Wire ID = 1003373 )	Color	Default
	Name	CAN_LBK

Object	Property Name	Property Value
CANH : P4/CANH (Wire ID = 1003819 )	Color	Default
	DIFFERENTIAL_PAIR	
	Name	CANH

Object	Property Name	Property Value
N1003048 : P4/N1003048 (Wire ID = 1003836 )	Color	Default
	Name	N1003048

Object	Property Name	Property Value
N1003048 : P4/N1003048 (Wire ID = 1003838 )	Color	Default
	Name	N1003048

Object	Property Name	Property Value
N1003048 : P4/N1003048 (Wire ID = 1003917 )	Color	Default
	Name	N1003048

Object	Property Name	Property Value
CANL : P4/CANL (Wire ID = 1003973 )	Color	Default
	DIFFERENTIAL_PAIR	
	Name	CANL

Object	Property Name	Property Value
N1003044 : P4/N1003044 (Wire ID = 1003998 )	Color	Default
	Name	N1003044

Object	Property Name	Property Value
N1003044 : P4/N1003044 (Wire ID = 1004000 )	Color	Default
	Name	N1003044

Object	Property Name	Property Value
N1003044 : P4/N1003044 (Wire ID = 1004004 )	Color	Default
	Name	N1003044

Object	Property Name	Property Value
DGND : P4/DGND (Wire ID = 1004684 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N1002337 : P4/N1002337 (Wire ID = 1004701 )	Color	Default
	Name	N1002337

Object	Property Name	Property Value
N1002337 : P4/N1002337 (Wire ID = 1004705 )	Color	Default
	Name	N1002337

Object	Property Name	Property Value
CANL : P4/CANL (Wire ID = 1006477 )	Color	Default
	DIFFERENTIAL_PAIR	
	Name	CANL

Object	Property Name	Property Value
CANL : P4/CANL (Wire ID = 1006481 )	Color	Default
	DIFFERENTIAL_PAIR	
	Name	CANL

Object	Property Name	Property Value
CANH : P4/CANH (Wire ID = 1006494 )	Color	Default
	DIFFERENTIAL_PAIR	
	Name	CANH

Object	Property Name	Property Value
CANH : P4/CANH (Wire ID = 1006498 )	Color	Default
	DIFFERENTIAL_PAIR	
	Name	CANH

Object	Property Name	Property Value
CAN_TX : P4/CAN_TX (Wire ID = 1079590 )	Color	Default
	Name	CAN_TX

Object	Property Name	Property Value
N1079768 : P4/N1079768 (Wire ID = 1079768 )	Color	Default
	Name	N1079768

Object	Property Name	Property Value
N1079768 : P4/N1079768 (Wire ID = 1079772 )	Color	Default
	Name	N1079768

Object	Property Name	Property Value
CAN_RX : P4/CAN_RX (Wire ID = 1079807 )	Color	Default
	Name	CAN_RX

Object	Property Name	Property Value
CAN_LBK : P4/CAN_LBK (Wire ID = 1091999 )	Color	Default
	Name	CAN_LBK

Object	Property Name	Property Value
N1003048 : P4/N1003048 (Wire ID = 1092037 )	Color	Default
	Name	N1003048

Object	Property Name	Property Value
N1003044 : P4/N1003044 (Wire ID = 1092078 )	Color	Default
	Name	N1003044

Object	Property Name	Property Value
DGND : P4/DGND (Wire ID = 1104354 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P4/DGND (Wire ID = 1104434 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DVDD_3V3 : P4/DVDD_3V3 (Wire ID = 1104477 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P4/DVDD_3V3 (Wire ID = 1104479 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P4/DVDD_3V3 (Wire ID = 1104483 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P4/DVDD_3V3 (Wire ID = 1104491 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P4/DVDD_3V3 (Wire ID = 1104493 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
CANH : P4/CANH	Name	CANH
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	CANH
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
CANL : P4/CANL	Name	CANL
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	CANL
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
CAN_TX : P4/CAN_TX	Name	CAN_TX
	Number	
	Swap Id	-1
	Type	Input
	Net Name	CAN_TX
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
CAN_RX : P4/CAN_RX	Name	CAN_RX
	Number	
	Swap Id	-1
	Type	Output
	Net Name	CAN_RX
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
CAN_LBK : P4/CAN_LBK	Name	CAN_LBK
	Number	
	Swap Id	-1
	Type	Input
	Net Name	CAN_LBK
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
TitleBlockIntellitrol : P4/TitleBlockIntellitrol	Schematic Page Count	1
	Schematic Page Number	1
	Page Number	9
	Page Count	21
	Path Name	P4/TitleBlockIntellitrol
	Schematic Path	/P4
	ID	8909
	Doc	
	RevCode	0B
	Cage Code	
	Title	CAN 2.0B bus interface
	OrgName	Jean-Francois Bilodeau, B.E.Eng
	OrgAddr1	CPI/CEP #6022173
	OrgAddr2	925 Chemin ste-foy apt4, QC, CANADA
	OrgAddr3	
	OrgAddr4	
	Name	TitleBlockIntellitrol
	Design Name	DSPEAK-V1_00-0B
	Design File Name	C:\USERS\JEANF\Desktop\GIT\DSPEAK\HARDWA
	Design Create Date	Friday, November 13, 2020
	Design Modify Date	Thursday, March 25, 2021
	Design Create Time	18:59:24
	Design Modify Time	19:51:15
	Schematic Name	CAN
	Schematic Create Date	Wednesday, November 18, 2020
	Schematic Modify Date	Thursday, March 25, 2021
	Schematic Create Time	17:43:34
	Schematic Modify Time	19:51:16
	Page Size	A
	Page Create Date	Thursday, November 19, 2020
	Page Modify Date	Thursday, March 25, 2021
	Page Create Time	18:30:10
	Page Modify Time	19:50:18
	Color	Default
	Source Library	C:\USERS\JEANF\GOOGLE DRIVE\ORCAD16LIB\PIECE\PART.OLB
	Source Symbol	TitleBlockIntellitrol
	Page Name	CAN

Object	Property Name	Property Value
INS983423 : P4/C60	Name	INS983423
	ID	3578
	Reference	C60
	Designator	
	Part Reference	C60
	Value	4.7nF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B472KB8NNNC
	Description	CAP CER 4700PF 50V X7R 0603
	Digi-Key PN	1276-1098-1-ND
	digikey_id	{distributorPn:1276-1098-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B472KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P4/C60/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N1002337
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P4/C60/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1104599 : P4/C59	Name	INS1104599
	ID	8992
	Reference	C59
	Designator	
	Part Reference	C59
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B1
	PCB Footprint	0603_cap_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P4/C59/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P4/C59/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1104414 : P4/C58	Name	INS1104414
	ID	8988
	Reference	C58
	Designator	
	Part Reference	C58
	Value	10uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:1276-6455-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL21A106KOQNNNG}
	Digi-Key PN	1276-6455-1-ND
	Description	CAP CER 10UF 16V X5R 0805
	Manufacturer PN	CL21A106KOQNNNG
	Manufacturer	Samsung Electro-Mechanics
	PCB Footprint	0805_cap
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P4/C58/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P4/C58/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS983313 : P4/U17	Name	INS983313
	ID	3581
	Reference	U17
	Designator	
	Part Reference	U17
	Value	SN65HVD233
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:296-35967-1-ND,mfr:Texas Instruments,mpn:SN65HVD233DR}
	Digi-Key PN	296-35967-1-ND
	Description	IC TRANSCEIVER HALF 1/1 8SOIC
	Manufacturer PN	SN65HVD233DR
	Manufacturer	Texas Instruments
	PCB Footprint	soic-8
	Distributor	
	Distributor PN	

Object	Property Name	Property Value
D : P4/U17/D	Name	D
	Number	1
	Swap Id	-1
	Type	Input
	Net Name	CAN_TX
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
GND : P4/U17/GND	Name	GND
	Number	2
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
VCC : P4/U17/VCC	Name	VCC
	Number	3
	Swap Id	-1
	Type	Power
	Net Name	DVDD_3V3
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
R : P4/U17/R	Name	R
	Number	4
	Swap Id	-1
	Type	Output
	Net Name	N1079768
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
LBK : P4/U17/LBK	Name	LBK
	Number	5
	Swap Id	-1
	Type	Input
	Net Name	CAN_LBK
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
CANL : P4/U17/CANL	Name	CANL
	Number	6
	Swap Id	-1
	Type	Bidirectional
	Net Name	N1003044
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
CANH : P4/U17/CANH	Name	CANH
	Number	7
	Swap Id	-1
	Type	Bidirectional
	Net Name	N1003048
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
RS : P4/U17/RS	Name	RS
	Number	8
	Swap Id	-1
	Type	Input
	Net Name	N983415
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
INS1004026 : P4/L1	Name	INS1004026
	ID	8134
	Reference	L1
	Designator	
	Part Reference	L1
	Value	ACT45B-220
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:445-3957-1-ND,mfr:TDK Corporation,mpn:ACT45B-220-2P-TL003}
	Digi-Key PN	445-3957-1-ND
	Description	CMC 22UH 200MA 2LN SMD AEC-Q200
	Manufacturer PN	ACT45B-220-2P-TL003
	Manufacturer	TDK Corporation
	PCB Footprint	ACT45B
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P4/L1/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N1003048
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P4/L1/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N1003044
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
4 : P4/L1/4	Name	4
	Number	4
	Swap Id	-1
	Type	Passive
	Net Name	CANH
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
3 : P4/L1/3	Name	3
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	CANL
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
INS1092058 : P4/TP91	Name	INS1092058
	ID	8833
	Reference	TP91
	Designator	
	Part Reference	TP91
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P4/TP91/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N1003044
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1004814 : P4/R58	Name	INS1004814
	ID	8141
	Reference	R58
	Designator	
	Part Reference	R58
	Value	DNP
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P4/R58/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	CANL
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P4/R58/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N1003044
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS989039 : P4/R55	Name	INS989039
	ID	5574
	Reference	R55
	Designator	
	Part Reference	R55
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,rpn:ERJ-0402_P33.2LCT-ND}
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RKF33R2X
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	0402_res_ipc

Object	Property Name	Property Value
1 : P4/R55/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N1079768
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P4/R55/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	CAN_RX
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS983277 : P4/R59	Name	INS983277
	ID	3605
	Reference	R59
	Designator	
	Part Reference	R59
	Value	60R4
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:311-60.4CRCT-ND,mfr:Yageo,mpn:RC0805FR-0760R4L,ul:{uid}}
	Digi-Key PN	311-60.4CRCT-ND
	Description	RES SMD 60.4 OHM 1% 1/8W 0805
	Manufacturer PN	RC0805FR-0760R4L
	Manufacturer	Yageo
	PCB Footprint	0805_res_ipc

Object	Property Name	Property Value
1 : P4/R59/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N1002337
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P4/R59/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	CANH
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1079787 : P4/TP42	Name	INS1079787
	ID	8571
	Reference	TP42
	Designator	
	Part Reference	TP42
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P4/TP42/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	CAN_RX
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS994156 : P4/D22	Name	INS994156
	ID	7328
	Reference	D22
	Designator	
	Part Reference	D22
	Value	SZNUP2105LT1G
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	sot23-3
	Manufacturer	ON Semiconductor
	Manufacturer PN	SZNUP2105LT1G
	Description	TVS DIODE 24V 44V SOT23-3
	Digi-Key PN	SZNUP2105LT1GOSCT-ND
	digikey_id	{distributorPn:SZNUP2105LT1GOSCT-ND,mfr:ON Semiconductor,mpn:SZN
	Distributor	
	Distributor PN	

Object	Property Name	Property Value
CAT1 : P4/D22/CAT1	Name	CAT1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	CANH
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
CAT2 : P4/D22/CAT2	Name	CAT2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	CANL
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
CA : P4/D22/CA	Name	CA
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
INS1002777 : P4/R56	Name	INS1002777
	ID	8112
	Reference	R56
	Designator	
	Part Reference	R56
	Value	10k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_jpc
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-0710KL
	Description	RES SMD 10K OHM 1% 1/10W 0603
	Digi-Key PN	311-10.0KHRCT-ND
	digikey_id	{distributorPn:311-10.0KHRCT-ND,mfr:Yageo,mpn:RC0603FR-0710KL,ul:{uid}}

Object	Property Name	Property Value
1 : P4/R56/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P4/R56/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N983415
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1079566 : P4/TP41	Name	INS1079566
	ID	8568
	Reference	TP41
	Designator	
	Part Reference	TP41
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P4/TP41/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	CAN_TX
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1091979 : P4/TP92	Name	INS1091979
	ID	8829
	Reference	TP92
	Designator	
	Part Reference	TP92
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P4/TP92/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	CAN_LBK
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1003801 : P4/R57	Name	INS1003801
	ID	8127
	Reference	R57
	Designator	
	Part Reference	R57
	Value	DNP
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P4/R57/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	CANH
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P4/R57/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N1003048
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1002882 : P4/D21	Name	INS1002882
	ID	8116
	Reference	D21
	Designator	
	Part Reference	D21
	Value	SZNUP2105LT1G
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	sot23-3
	Manufacturer	ON Semiconductor
	Manufacturer PN	SZNUP2105LT1G
	Description	TVS DIODE 24V 44V SOT23-3
	Digi-Key PN	SZNUP2105LT1GOSCT-ND
	digikey_id	{distributorPn:SZNUP2105LT1GOSCT-ND,mfr:ON Semiconductor,mpn:SZN
	Distributor	
	Distributor PN	

Object	Property Name	Property Value
CAT1 : P4/D21/CAT1	Name	CAT1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N1003044
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
CAT2 : P4/D21/CAT2	Name	CAT2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N1003048
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
CA : P4/D21/CA	Name	CA
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
INS1092017 : P4/TP90	Name	INS1092017
	ID	8831
	Reference	TP90
	Designator	
	Part Reference	TP90
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P4/TP90/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N1003048
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS983507 : P4/R60	Name	INS983507
	ID	3614
	Reference	R60
	Designator	
	Part Reference	R60
	Value	60R4
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:311-60.4CRCT-ND,mfr:Yageo,mpn:RC0805FR-0760R4L,ul:uid}
	Digi-Key PN	311-60.4CRCT-ND
	Description	RES SMD 60.4 OHM 1% 1/8W 0805
	Manufacturer PN	RC0805FR-0760R4L
	Manufacturer	Yageo
	PCB Footprint	0805_res_ipc

Object	Property Name	Property Value
1 : P4/R60/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	CANL
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P4/R60/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N1002337
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
Line	Name	I801611
	Color	Default
	Start X-Coordinate	690
	Start Y-Coordinate	600
	End X-Coordinate	690
	End Y-Coordinate	940

Object	Property Name	Property Value
Line	Name	I806193
	Color	Default
	Start X-Coordinate	690
	Start Y-Coordinate	600
	End X-Coordinate	290
	End Y-Coordinate	600

Object	Property Name	Property Value
Line	Name	I806195
	Color	Default
	Start X-Coordinate	290
	Start Y-Coordinate	600
	End X-Coordinate	290
	End Y-Coordinate	890

Object	Property Name	Property Value
Line	Name	I806197
	Color	Default
	Start X-Coordinate	10
	Start Y-Coordinate	890
	End X-Coordinate	690
	End Y-Coordinate	890

Object	Property Name	Property Value
Line	Name	I806731
	Color	Default
	Start X-Coordinate	10
	Start Y-Coordinate	600
	End X-Coordinate	10
	End Y-Coordinate	890

Object	Property Name	Property Value
Line	Name	I806739
	Color	Default
	Start X-Coordinate	290
	Start Y-Coordinate	600
	End X-Coordinate	10
	End Y-Coordinate	600

Object	Property Name	Property Value
Line	Name	I808678
	Color	Default
	Start X-Coordinate	1010
	Start Y-Coordinate	460
	End X-Coordinate	1010
	End Y-Coordinate	560

Object	Property Name	Property Value
Line	Name	I808686
	Color	Default
	Start X-Coordinate	1010
	Start Y-Coordinate	420
	End X-Coordinate	1490
	End Y-Coordinate	420

Object	Property Name	Property Value
Line	Name	I829401
	Color	Default
	Start X-Coordinate	10
	Start Y-Coordinate	10
	End X-Coordinate	10
	End Y-Coordinate	600

Object	Property Name	Property Value
Line	Name	I829415
	Color	Default
	Start X-Coordinate	690
	Start Y-Coordinate	320
	End X-Coordinate	690
	End Y-Coordinate	600

Object	Property Name	Property Value
Line	Name	I830741
	Color	Default
	Start X-Coordinate	690
	Start Y-Coordinate	10
	End X-Coordinate	690
	End Y-Coordinate	360

Object	Property Name	Property Value
Line	Name	I831147
	Color	Default
	Start X-Coordinate	1010
	Start Y-Coordinate	560
	End X-Coordinate	1490
	End Y-Coordinate	560

Object	Property Name	Property Value
Line	Name	I838017
	Color	Default
	Start X-Coordinate	690
	Start Y-Coordinate	560
	End X-Coordinate	1010
	End Y-Coordinate	560

Object	Property Name	Property Value
Line	Name	I838025
	Color	Default
	Start X-Coordinate	690
	Start Y-Coordinate	370
	End X-Coordinate	1010
	End Y-Coordinate	370

Object	Property Name	Property Value
Line	Name	I838041
	Color	Default
	Start X-Coordinate	1010
	Start Y-Coordinate	370
	End X-Coordinate	1010
	End Y-Coordinate	460

Object	Property Name	Property Value
Resistors are 0603 -1% 1/10W unless otherwise noted	Name	I794563
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	576
	Bounding Box Top	900
	Bounding Box Bottom	919
	Text	Resistors are 0603 -1% 1/10W unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	900
	Font	Courier New

Object	Property Name	Property Value
Capacitor are 0603 -20% 16V unless otherwise noted	Name	I794569
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	565
	Bounding Box Top	920
	Bounding Box Bottom	939
	Text	Capacitor are 0603 -20% 16V unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	920
	Font	Courier New

Object	Property Name	Property Value
DVDD_3V3 MCU capacitors, 1x bank per VDD pin, as close as possible to each pin	Name	I800229
	Color	Default
	Bounding Box Left	720
	Bounding Box Right	916
	Bounding Box Top	850
	Bounding Box Bottom	915
	Text	DVDD_3V3 MCU capacitors, 1x bank per VDD pin, as close as possible to each pin
	Text Location X-Coordinate	720
	Text Location Y-Coordinate	850
	Font	Courier New

Object	Property Name	Property Value
AVDD_3V3 : Analog supply Low-pass filter L = (1 / (2*pi*f*sqrt(C)))^2	Name	I805068
	Color	Default
	Bounding Box Left	370
	Bounding Box Right	598
	Bounding Box Top	810
	Bounding Box Bottom	849
	Text	AVDD_3V3 : Analog supply Low-pass filter L = (1 / (2*pi*f*sqrt(C)))^2
	Text Location X-Coordinate	370
	Text Location Y-Coordinate	810
	Font	Courier New

Object	Property Name	Property Value
VCAP - Internal regulator bypass capacitor, shall exceed 4.7uF, 16V rated Trace from cap to pins shall not exceed 1/4" length	Name	I806723
	Color	Default
	Bounding Box Left	30
	Bounding Box Right	258
	Bounding Box Top	790
	Bounding Box Bottom	855
	Text	VCAP - Internal regulator bypass capacitor, shall exceed 4.7uF, 16V rated Trace from cap to pins shall not exceed 1/4" length
	Text Location X-Coordinate	30
	Text Location Y-Coordinate	790
	Font	Courier New

Object	Property Name	Property Value
USB decoupling As close as possible to VUSB3V3 and VBUS pins	Name	I808694
	Color	Default
	Bounding Box Left	1150
	Bounding Box Right	1322
	Bounding Box Top	460
	Bounding Box Bottom	512
	Text	USB decoupling As close as possible to VUSB3V3 and VBUS pins
	Text Location X-Coordinate	1150
	Text Location Y-Coordinate	460
	Font	Courier New

Object	Property Name	Property Value
Primary oscillator, used in HS mode, requires 1Mohm in parallel to crystal Add Guard ring on PCB layout	Name	I829243
	Color	Default
	Bounding Box Left	30
	Bounding Box Right	330
	Bounding Box Top	550
	Bounding Box Bottom	589
	Text	Primary oscillator, used in HS mode, requires 1Mohm in parallel to crystal Add Guard ring on PCB layout
	Text Location X-Coordinate	30
	Text Location Y-Coordinate	550
	Font	Courier New

Object	Property Name	Property Value
Secondary oscillator, Used for RTCC module Add Guard ring on PCB layout	Name	I829913
	Color	Default
	Bounding Box Left	414
	Bounding Box Right	642
	Bounding Box Top	547
	Bounding Box Bottom	586
	Text	Secondary oscillator, Used for RTCC module Add Guard ring on PCB layout
	Text Location X-Coordinate	414
	Text Location Y-Coordinate	547
	Font	Courier New

Object	Property Name	Property Value
ADC Vref+ Ext 0 <= Vref+ <= 3V3 Place close to Vref+ pin	Name	I838033
	Color	Default
	Bounding Box Left	750
	Bounding Box Right	946
	Bounding Box Top	374
	Bounding Box Bottom	413
	Text	ADC Vref+ Ext 0 <= Vref+ <= 3V3 Place close to Vref+ pin
	Text Location X-Coordinate	750
	Text Location Y-Coordinate	374
	Font	Courier New

Object	Property Name	Property Value
ABM7-20.000MHZ-D2Y-T	Name	I991834
	Color	Default
	Bounding Box Left	130
	Bounding Box Right	232
	Bounding Box Top	430
	Bounding Box Bottom	439
	Text	ABM7-20.000MHZ-D2Y-T
	Text Location X-Coordinate	130
	Text Location Y-Coordinate	430
	Font	Courier New

Object	Property Name	Property Value
12.5pF load crystal	Name	I992462
	Color	Default
	Bounding Box Left	580
	Bounding Box Right	677
	Bounding Box Top	400
	Bounding Box Bottom	409
	Text	12.5pF load crystal
	Text Location X-Coordinate	580
	Text Location Y-Coordinate	400
	Font	Courier New

Object	Property Name	Property Value
VUSB3V3	Name	I1000102
	Color	Default
	Bounding Box Left	1390
	Bounding Box Right	1450
	Bounding Box Top	430
	Bounding Box Bottom	443
	Text	VUSB3V3
	Text Location X-Coordinate	1390
	Text Location Y-Coordinate	430
	Font	Courier New

Object	Property Name	Property Value
MCU decoupling MCU oscillators MCU ICSP port	Name	I1091238
	Color	Default
	Bounding Box Left	1370
	Bounding Box Right	1494
	Bounding Box Top	10
	Bounding Box Bottom	49
	Text	MCU decoupling MCU oscillators MCU ICSP port
	Text Location X-Coordinate	1370
	Text Location Y-Coordinate	10
	Font	Courier New

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 760118 )	Color	Default
DGND : P2/DGND (Wire ID = 760118 )	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 760120 )	Color	Default
DGND : P2/DGND (Wire ID = 760120 )	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 760127 )	Color	Default
DGND : P2/DGND (Wire ID = 760127 )	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 760129 )	Color	Default
DGND : P2/DGND (Wire ID = 760129 )	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 760140 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 760142 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 760157 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 760159 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 760178 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 760180 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 760203 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 760205 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 760232 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 760234 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 760382 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 760388 )	Color	Default
	Name	DVDD_3V3

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 760393 )	Color	Default
	Name	DVDD_3V3

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 760395 )	Color	Default
	Name	DVDD_3V3

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 760406 )	Color	Default
	Name	DVDD_3V3

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 760408 )	Color	Default
	Name	DVDD_3V3

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 760423 )	Color	Default
	Name	DVDD_3V3

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 760425 )	Color	Default
	Name	DVDD_3V3

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 760444 )	Color	Default
	Name	DVDD_3V3

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 760446 )	Color	Default
	Name	DVDD_3V3

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 760469 )	Color	Default
	Name	DVDD_3V3

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 760471 )	Color	Default
	Name	DVDD_3V3

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 760498 )	Color	Default
	Name	DVDD_3V3

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 760500 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
VCAP : P2/VCAP (Wire ID = 760647 )	Color	Default
	Name	VCAP

Object	Property Name	Property Value
VCAP : P2/VCAP (Wire ID = 760651 )	Color	Default
	Name	VCAP

Object	Property Name	Property Value
AVDD_3V3 : P2/AVDD_3V3 (Wire ID = 760733 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P2/AVDD_3V3 (Wire ID = 760737 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 760829 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 760833 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 760838 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 760842 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 760851 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 760863 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 760876 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 760880 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 760882 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 760888 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 760890 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 760900 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 761153 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
VCAP : P2/VCAP (Wire ID = 794671 )	Color	Default
	Name	VCAP

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 794729 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 796039 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 796043 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 796047 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 796051 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 796055 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 796059 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 796117 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 796121 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 796125 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 796129 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 796133 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 796137 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 796674 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 796678 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 796682 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 796686 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 796690 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 796694 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 796752 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 796756 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 796760 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 796764 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 796768 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 796772 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 796790 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 796802 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 796810 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 796872 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 796876 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 796884 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 796888 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 797321 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 797325 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 797329 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 797333 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 797337 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 797341 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 797399 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 797403 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 797407 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 797411 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 797415 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 797419 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
AVDD_3V3 : P2/AVDD_3V3 (Wire ID = 803631 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P2/AVDD_3V3 (Wire ID = 803637 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P2/AVDD_3V3 (Wire ID = 803641 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 803649 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 803741 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 803821 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
AVDD_3V3 : P2/AVDD_3V3 (Wire ID = 805368 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 805390 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
AVDD_3V3 : P2/AVDD_3V3 (Wire ID = 805436 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 805458 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
AVDD_3V3 : P2/AVDD_3V3 (Wire ID = 805512 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P2/AVDD_3V3 (Wire ID = 805514 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
USB_VBUS : P2/USB_VBUS (Wire ID = 807533 )	Color	Default
	Name	USB_VBUS

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 807701 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 807703 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 808106 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 808118 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 808122 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 808126 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 808188 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 808192 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 808200 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 808204 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 814708 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 814831 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 814833 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 814938 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 814940 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 815932 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
N816136 : P2/N816136 (Wire ID = 816136 )	Color	Default
	Name	N816136

Object	Property Name	Property Value
N816136 : P2/N816136 (Wire ID = 816138 )	Color	Default
	Name	N816136

Object	Property Name	Property Value
N817136 : P2/N817136 (Wire ID = 817136 )	Color	Default
	Name	N817136

Object	Property Name	Property Value
N817140 : P2/N817140 (Wire ID = 817140 )	Color	Default
	Name	N817140

Object	Property Name	Property Value
N816136 : P2/N816136 (Wire ID = 817189 )	Color	Default
	Name	N816136

Object	Property Name	Property Value
N817136 : P2/N817136 (Wire ID = 819891 )	Color	Default
	Name	N817136

Object	Property Name	Property Value
N817136 : P2/N817136 (Wire ID = 819895 )	Color	Default
	Name	N817136

Object	Property Name	Property Value
N816136 : P2/N816136 (Wire ID = 820178 )	Color	Default
	Name	N816136

Object	Property Name	Property Value
OSC1 : P2/OSC1 (Wire ID = 820858 )	DIFFERENTIAL_PAIR	DP11
	Color	Default
	Name	OSC1

Object	Property Name	Property Value
OSC2 : P2/OSC2 (Wire ID = 820862 )	DIFFERENTIAL_PAIR	DP11
	Color	Default
	Name	OSC2

Object	Property Name	Property Value
SOSCI : P2/SOSCI (Wire ID = 820866 )	DIFFERENTIAL_PAIR	DP12
	Color	Default
	Name	SOSCI

Object	Property Name	Property Value
SOSCO : P2/SOSCO (Wire ID = 820870 )	DIFFERENTIAL_PAIR	DP12
	Color	Default
	Name	SOSCO

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 822596 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 822598 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N816136 : P2/N816136 (Wire ID = 822702 )	Color	Default
	Name	N816136

Object	Property Name	Property Value
N816136 : P2/N816136 (Wire ID = 822706 )	Color	Default
	Name	N816136

Object	Property Name	Property Value
N816136 : P2/N816136 (Wire ID = 822886 )	Color	Default
	Name	N816136

Object	Property Name	Property Value
N816136 : P2/N816136 (Wire ID = 822890 )	Color	Default
	Name	N816136

Object	Property Name	Property Value
N817140 : P2/N817140 (Wire ID = 822920 )	Color	Default
	Name	N817140

Object	Property Name	Property Value
N817140 : P2/N817140 (Wire ID = 822924 )	Color	Default
	Name	N817140

Object	Property Name	Property Value
#MCLR : P2/#MCLR (Wire ID = 822940 )	Color	Default
	Name	#MCLR

Object	Property Name	Property Value
ICSPCLK : P2/ICSPCLK (Wire ID = 822946 )	Color	Default
	Name	ICSPCLK

Object	Property Name	Property Value
ICSPDAT : P2/ICSPDAT (Wire ID = 822950 )	Color	Default
	Name	ICSPDAT

Object	Property Name	Property Value
OSC1 : P2/OSC1 (Wire ID = 823986 )	DIFFERENTIAL_PAIR	DP11
	Color	Default
	Name	OSC1

Object	Property Name	Property Value
OSC1 : P2/OSC1 (Wire ID = 823988 )	DIFFERENTIAL_PAIR	DP11
	Color	Default
	Name	OSC1

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 824106 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 824254 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
OSC2 : P2/OSC2 (Wire ID = 824476 )	DIFFERENTIAL_PAIR	DP11
	Color	Default
	Name	OSC2

Object	Property Name	Property Value
OSC2 : P2/OSC2 (Wire ID = 824478 )	DIFFERENTIAL_PAIR	DP11
	Color	Default
	Name	OSC2

Object	Property Name	Property Value
SOSCI : P2/SOSCI (Wire ID = 825075 )	DIFFERENTIAL_PAIR	DP12
	Color	Default
	Name	SOSCI

Object	Property Name	Property Value
SOSCI : P2/SOSCI (Wire ID = 825079 )	DIFFERENTIAL_PAIR	DP12
	Color	Default
	Name	SOSCI

Object	Property Name	Property Value
SOSCO : P2/SOSCO (Wire ID = 825085 )	DIFFERENTIAL_PAIR	DP12
	Color	Default
	Name	SOSCO

Object	Property Name	Property Value
SOSCO : P2/SOSCO (Wire ID = 825091 )	DIFFERENTIAL_PAIR	DP12
	Color	Default
	Name	SOSCO

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 825131 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 825135 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
OSC2 : P2/OSC2 (Wire ID = 825699 )	DIFFERENTIAL_PAIR	DP11
	Color	Default
	Name	OSC2

Object	Property Name	Property Value
OSC2 : P2/OSC2 (Wire ID = 825703 )	DIFFERENTIAL_PAIR	DP11
	Color	Default
	Name	OSC2

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
OSC1 : P2/OSC1 (Wire ID = 825711 )	DIFFERENTIAL_PAIR	DP11
	Color	Default
	Name	OSC1

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
OSC1 : P2/OSC1 (Wire ID = 825715 )	DIFFERENTIAL_PAIR	DP11
	Color	Default
	Name	OSC1

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
AVDD_3V3 : P2/AVDD_3V3 (Wire ID = 834275 )	Color	Default
	Name	AVDD_3V3

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : P2/DGND (Wire ID = 834301 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : P2/DGND (Wire ID = 834668 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
AVDD_3V3 : P2/AVDD_3V3 (Wire ID = 834686 )	Color	Default
	Name	AVDD_3V3

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
AVDD_3V3 : P2/AVDD_3V3 (Wire ID = 837017 )	Color	Default
	Name	AVDD_3V3

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 997417 )	Color	Default
	Name	DVDD_3V3

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 997419 )	Color	Default
	Name	DVDD_3V3

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : P2/DGND (Wire ID = 997512 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 998081 )	Color	Default
	Name	DVDD_3V3

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 998085 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 998089 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 998093 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 998097 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 998137 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 998141 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 998145 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 998149 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 998153 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 998441 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 998445 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 998449 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 998453 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P2/DVDD_3V3 (Wire ID = 998457 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 998497 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 998501 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 998505 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 998509 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 998513 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 1010902 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P2/DGND (Wire ID = 1011843 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
AVDD_3V3 : P2/AVDD_3V3 (Wire ID = 1017487 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P2/AVDD_3V3 (Wire ID = 1017489 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P2/AVDD_3V3 (Wire ID = 1017555 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
N816136 : P2/N816136 (Wire ID = 1021803 )	Color	Default
	Name	N816136

Object	Property Name	Property Value
N817140 : P2/N817140 (Wire ID = 1021837 )	Color	Default
	Name	N817140

Object	Property Name	Property Value
N817140 : P2/N817140 (Wire ID = 1021841 )	Color	Default
	Name	N817140

Object	Property Name	Property Value
AVDD_3V3 : P2/AVDD_3V3 (Wire ID = 1029976 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
VCAP	Name	VCAP
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
AVDD_3V3	Name	AVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
VCAP	Name	VCAP
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
AVDD_3V3	Name	AVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
AVDD_3V3	Name	AVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
AVDD_3V3	Name	AVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
ICSPCLK : P2/ICSPCLK	Name	ICSPCLK
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	N841452
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
ICSPDAT : P2/ICSPDAT	Name	ICSPDAT
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	N841434
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
#MCLR : P2/#MCLR	Name	#MCLR
	Number	
	Swap Id	-1
	Type	Input
	Net Name	N841430
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
USB_VBUS : P2/USB_VBUS	Name	USB_VBUS
	Number	
	Swap Id	-1
	Type	Input
	Net Name	USB_NATIVE_5V0
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
TitleBlockIntellitrol : P2/TitleBlockIntellitrol	Schematic Page Count	1
	Schematic Page Number	1
	Page Number	10
	Page Count	21
	Path Name	P2/TitleBlockIntellitrol
	Schematic Path	/P2
	ID	8910
	Doc	
	RevCode	0B
	Cage Code	
	Title	MCU CLOCK / POWER / OSC / ICSP
	OrgName	Jean-Francois Bilodeau, B.E.Eng
	OrgAddr1	CPI/CEP #6022173
	OrgAddr2	925 Chemin ste-foy apt4, QC, CANADA
	OrgAddr3	
	OrgAddr4	
	Name	TitleBlockIntellitrol
	Design Name	DSPEAK-V1_00-0B
	Design File Name	C:\USERS\JEANF\Desktop\GIT\DSPEAK\HARDWA
	Design Create Date	Friday, November 13, 2020
	Design Modify Date	Thursday, March 25, 2021
	Design Create Time	18:59:24
	Design Modify Time	19:51:15
	Schematic Name	MCU
	Schematic Create Date	Saturday, November 14, 2020
	Schematic Modify Date	Thursday, March 25, 2021
	Schematic Create Time	07:23:34
	Schematic Modify Time	19:45:12
	Page Size	B
	Page Create Date	Saturday, November 14, 2020
	Page Modify Date	Thursday, March 25, 2021
	Page Create Time	07:23:32
	Page Modify Time	19:45:11
	Color	Default
	Source Library	C:\USERS\JEANF\GOOGLE DRIVE\ORCAD16LIB\PIECE\PART.OLB
	Source Symbol	TitleBlockIntellitrol
	Page Name	MCU - POWER / OSC / PICKIT

Object	Property Name	Property Value
INS796848 : P2/C82	Name	INS796848
	ID	577
	Reference	C82
	Designator	
	Part Reference	C82
	Value	1nF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	AVX Corporation
	Manufacturer PN	06035C102KAT2A
	Description	CAP CER 1000PF 50V X7R 0603
	Digi-Key PN	478-1215-1-ND
	digikey_id	{distributorPn:478-1215-1-ND,mfr:AVX Corporation,mpn:06035C102KAT2A,ul:
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P2/C82/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P2/C82/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1011799 : P2/D23	Name	INS1011799
	ID	7886
	Reference	D23
	Designator	
	Part Reference	D23
	Value	TVS 3V3 DL
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	sot23-3
	Manufacturer	Diodes Incorporated
	Manufacturer PN	D1213A-02SOL-7
	Description	TVS DIODE 3.3V 10V SOT23
	Digi-Key PN	D1213A-02SOL-7DICT-ND
	digikey_id	{distributorPn:D1213A-02SOL-7DICT-ND,mfr:Diodes Incorporated,mpn:D1213A-02SOL-7DICT-ND}
	Distributor	
	Distributor PN	

Object	Property Name	Property Value
CA : P2/D23/CA	Name	CA
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
CAT1 : P2/D23/CAT1	Name	CAT1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N816136
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
CAT2 : P2/D23/CAT2	Name	CAT2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	2
	Is No Connect	True

Object	Property Name	Property Value
INS822808 : P2/R62	Name	INS822808
	ID	972
	Reference	R62
	Designator	
	Part Reference	R62
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,mpn:ERJ-2RKF33R2X}
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RKF33R2X
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	0402_res_ipc

Object	Property Name	Property Value
1 : P2/R62/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	#MCLR
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P2/R62/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N816136
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS803615 : P2/L2	Name	INS803615
	ID	611
	Reference	L2
	Designator	
	Part Reference	L2
	Value	4.7uH
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:445-181490-1-ND,mfr:TDK Corporation,mpn:TFM252012ALVA4R7MTAA}
	Digi-Key PN	445-181490-1-ND
	Description	FIXED IND 4.7UH 1.6A 200 MOHM
	Manufacturer PN	TFM252012ALVA4R7MTAA
	Manufacturer	TDK Corporation
	PCB Footprint	1008_ind_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P2/L2/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P2/L2/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS815804 : P2/R65	Name	INS815804
	ID	927
	Reference	R65
	Designator	
	Part Reference	R65
	Value	10k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-0710KL
	Description	RES SMD 10K OHM 1% 1/10W 0603
	Digi-Key PN	311-10.0KHRCT-ND
	digikey_id	{distributorPn:311-10.0KHRCT-ND,mfr:Yageo,mpn:RC0603FR-0710KL,ul:{uid}}

Object	Property Name	Property Value
1 : P2/R65/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P2/R65/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N816136
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS796696 : P2/C78	Name	INS796696
	ID	586
	Reference	C78
	Designator	
	Part Reference	C78
	Value	10uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0805_cap
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL21A106KOQNNNG
	Description	CAP CER 10UF 16V X5R 0805
	Digi-Key PN	1276-6455-1-ND
	digikey_id	{distributorPn:1276-6455-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL21A106KOQNNNG}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P2/C78/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P2/C78/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS825563 : P2/R61	Name	INS825563
	ID	1035
	Reference	R61
	Designator	
	Part Reference	R61
	Value	1Meg
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:RMCF0603FT1M00CT-ND,mfr:Stackpole Electronics Inc,mpn:R
	Digi-Key PN	RMCF0603FT1M00CT-ND
	Description	RES 1M OHM 1% 1/10W 0603
	Manufacturer PN	RMCF0603FT1M00
	Manufacturer	Stackpole Electronics Inc
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P2/R61/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	OSC1
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P2/R61/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	OSC2
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS835825 : P2/U18	Name	INS835825
	ID	3100
	Reference	U18
	Designator	I
	Part Reference	U18I
	Value	dsPIC33EP512MU814
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:DSPIC33EP512MU814-I/PH-ND,mfr:Microchip Technology,mpn:
	Digi-Key PN	DSPIC33EP512MU814-I/PH-ND
	Description	IC MCU 16BIT 512KB FLASH 144TQFP
	Manufacturer PN	DSPIC33EP512MU814-I/PH
	Manufacturer	Microchip Technology
	PCB Footprint	tqfp144_16x16mm
	Distributor PN	
	Distributor	
	SWAP_INFO	(S1+S2+S3+S4+S5+S6+S7+S8+S9+S10+S11+S12)
	SPLIT_INST	TRUE

Object	Property Name	Property Value
VDD : P2/U18/VDD	Name	VDD
	Number	2
	Swap Id	-1
	Type	Power
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
VDD : P2/U18/VDD	Name	VDD
	Number	24
	Swap Id	-1
	Type	Power
	Net Name	DVDD_3V3
	Order	1
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
VDD : P2/U18/VDD	Name	VDD
	Number	52
	Swap Id	-1
	Type	Power
	Net Name	DVDD_3V3
	Order	2
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
VDD : P2/U18/VDD	Name	VDD
	Number	64
	Swap Id	-1
	Type	Power
	Net Name	DVDD_3V3
	Order	3
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
VDD : P2/U18/VDD	Name	VDD
	Number	89
	Swap Id	-1
	Type	Power
	Net Name	DVDD_3V3
	Order	4
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
VDD : P2/U18/VDD	Name	VDD
	Number	112
	Swap Id	-1
	Type	Power
	Net Name	DVDD_3V3
	Order	5
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
VDD : P2/U18/VDD	Name	VDD
	Number	124
	Swap Id	-1
	Type	Power
	Net Name	DVDD_3V3
	Order	6
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
VREF+ : P2/U18/VREF+	Name	VREF+
	Number	40
	Swap Id	-1
	Type	Power
	Net Name	AVDD_3V3
	Order	7
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
VCAP : P2/U18/VCAP	Name	VCAP
	Number	123
	Swap Id	-1
	Type	Power
	Net Name	VCAP
	Order	8
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
VBUS : P2/U18/VBUS	Name	VBUS
	Number	77
	Swap Id	-1
	Type	Power
	Net Name	USB_VBUS
	Order	9
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
VUSB3V3 : P2/U18/VUSB3V3	Name	VUSB3V3
	Number	78
	Swap Id	-1
	Type	Power
	Net Name	DVDD_3V3
	Order	10
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
AVDD : P2/U18/AVDD	Name	AVDD
	Number	41
	Swap Id	-1
	Type	Power
	Net Name	AVDD_3V3
	Order	11
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
AVSS : P2/U18/AVSS	Name	AVSS
	Number	42
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	12
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
VSS : P2/U18/VSS	Name	VSS
	Number	23
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	13
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
VSS : P2/U18/VSS	Name	VSS
	Number	36
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	14
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
VSS : P2/U18/VSS	Name	VSS
	Number	51
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	15
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
VSS : P2/U18/VSS	Name	VSS
	Number	63
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	16
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
VSS : P2/U18/VSS	Name	VSS
	Number	73
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	17
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
VSS : P2/U18/VSS	Name	VSS
	Number	92
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	18
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
VSS : P2/U18/VSS	Name	VSS
	Number	108
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	19
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
VSS : P2/U18/VSS	Name	VSS
	Number	125
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	20
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
VSS : P2/U18/VSS	Name	VSS
	Number	141
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	21
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
INS797343 : P2/C70	Name	INS797343
	ID	601
	Reference	C70
	Designator	
	Part Reference	C70
	Value	10uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0805_cap
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL21A106KOQNNNG
	Description	CAP CER 10UF 16V X5R 0805
	Digi-Key PN	1276-6455-1-ND
	digikey_id	{distributorPn:1276-6455-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL21A106KOQNNNG}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P2/C70/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P2/C70/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS796714 : P2/C81	Name	INS796714
	ID	571
	Reference	C81
	Designator	
	Part Reference	C81
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P2/C81/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P2/C81/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS760811 : P2/C75	Name	INS760811
	ID	542
	Reference	C75
	Designator	
	Part Reference	C75
	Value	1nF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	AVX Corporation
	Manufacturer PN	06035C102KAT2A
	Description	CAP CER 1000PF 50V X7R 0603
	Digi-Key PN	478-1215-1-ND
	digikey_id	{distributorPn:478-1215-1-ND,mfr:AVX Corporation,mpn:06035C102KAT2A,u
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P2/C75/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P2/C75/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS797361 : P2/C72	Name	INS797361
	ID	595
	Reference	C72
	Designator	
	Part Reference	C72
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B1
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P2/C72/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P2/C72/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS796732 : P2/C83	Name	INS796732
	ID	589
	Reference	C83
	Designator	
	Part Reference	C83
	Value	1nF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	AVX Corporation
	Manufacturer PN	06035C102KAT2A
	Description	CAP CER 1000PF 50V X7R 0603
	Digi-Key PN	478-1215-1-ND
	digikey_id	{distributorPn:478-1215-1-ND,mfr:AVX Corporation,mpn:06035C102KAT2A,uln:06035C102KAT2A}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P2/C83/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P2/C83/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS825055 : P2/Y2	Name	INS825055
	ID	1032
	Reference	Y2
	Designator	
	Part Reference	Y2
	Value	32.768kHz
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:535-9808-1-ND,mfr:Abracon LLC,mpn:ABS07-32.768KHZ-1-T}
	Digi-Key PN	535-9808-1-ND
	Description	CRYSTAL 32.7680KHZ 12.5PF SMD
	Manufacturer PN	ABS07-32.768KHZ-1-T
	Manufacturer	Abracon LLC
	PCB Footprint	2-SMD_xtal
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P2/Y2/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	SOSCI
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P2/Y2/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	SOSCO
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS797379 : P2/C76	Name	INS797379
	ID	598
	Reference	C76
	Designator	
	Part Reference	C76
	Value	1nF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	AVX Corporation
	Manufacturer PN	06035C102KAT2A
	Description	CAP CER 1000PF 50V X7R 0603
	Digi-Key PN	478-1215-1-ND
	digikey_id	{distributorPn:478-1215-1-ND,mfr:AVX Corporation,mpn:06035C102KAT2A,ul:
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P2/C76/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P2/C76/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS821689 : P2/SW1	Name	INS821689
	ID	966
	Reference	SW1
	Designator	
	Part Reference	SW1
	Value	btmsmt
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:CKN10283CT-ND,mfr:C&K,mpn:KSR233G LFG}
	Digi-Key PN	CKN10283CT-ND
	Description	SWITCH TACTILE SPST-NO 0.01A 32V
	Manufacturer PN	KSR233G LFG
	Manufacturer	C&K
	PCB Footprint	KSR233G
	Distributor PN	
	Distributor	
	Filename	

Object	Property Name	Property Value
1 : P2/SW1/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P2/SW1/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N816136
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS805438 : P2/C64	Name	INS805438
	ID	618
	Reference	C64
	Designator	
	Part Reference	C64
	Value	22uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0805_cap
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL21A226MOQNNNE
	Description	CAP CER 22UF 16V X5R 0805
	Digi-Key PN	1276-2909-1-ND
	digikey_id	{distributorPn:1276-2909-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL21A226MOQNNNE}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P2/C64/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P2/C64/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS998099 : P2/C87	Name	INS998099
	ID	6994
	Reference	C87
	Designator	
	Part Reference	C87
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P2/C87/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P2/C87/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS823968 : P2/C61	Name	INS823968
	ID	1018
	Reference	C61
	Designator	
	Part Reference	C61
	Value	18pF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:399-1052-1-ND,mfr:KEMET,mpn:C0603C180J5GACTU,ul:{uid:399-1052-1-ND}}
	Digi-Key PN	399-1052-1-ND
	Description	CAP CER 18PF 50V C0G/NP0 0603
	Manufacturer PN	C0603C180J5GACTU
	Manufacturer	KEMET
	PCB Footprint	0603_cap_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P2/C61/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	OSC1
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P2/C61/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS805370 : P2/C65	Name	INS805370
	ID	614
	Reference	C65
	Designator	
	Part Reference	C65
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P2/C65/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P2/C65/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS998117 : P2/C90	Name	INS998117
	ID	6997
	Reference	C90
	Designator	
	Part Reference	C90
	Value	1nF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	AVX Corporation
	Manufacturer PN	06035C102KAT2A
	Description	CAP CER 1000PF 50V X7R 0603
	Digi-Key PN	478-1215-1-ND
	digikey_id	{distributorPn:478-1215-1-ND,mfr:AVX Corporation,mpn:06035C102KAT2A,u
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P2/C90/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P2/C90/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS760781 : P2/C71	Name	INS760781
	ID	539
	Reference	C71
	Designator	
	Part Reference	C71
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P2/C71/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P2/C71/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS803570 : P2/C67	Name	INS803570
	ID	605
	Reference	C67
	Designator	
	Part Reference	C67
	Value	1nF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	AVX Corporation
	Manufacturer PN	06035C102KAT2A
	Description	CAP CER 1000PF 50V X7R 0603
	Digi-Key PN	478-1215-1-ND
	digikey_id	{distributorPn:478-1215-1-ND,mfr:AVX Corporation,mpn:06035C102KAT2A,u
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P2/C67/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P2/C67/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS998459 : P2/C77	Name	INS998459
	ID	7003
	Reference	C77
	Designator	
	Part Reference	C77
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B1
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P2/C77/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P2/C77/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS825093 : P2/C66	Name	INS825093
	ID	1026
	Reference	C66
	Designator	
	Part Reference	C66
	Value	20pF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10C200JB8NNNC
	Description	CAP CER 20PF 50V C0G/NP0 0603
	Digi-Key PN	1276-1187-1-ND
	digikey_id	{distributorPn:1276-1187-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10C200JB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P2/C66/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	SOSCI
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P2/C66/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1010107 : P2/D24	Name	INS1010107
	ID	7882
	Reference	D24
	Designator	
	Part Reference	D24
	Value	TVS 3V3 DL
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	sot23-3
	Manufacturer	Diodes Incorporated
	Manufacturer PN	D1213A-02SOL-7
	Description	TVS DIODE 3.3V 10V SOT23
	Digi-Key PN	D1213A-02SOL-7DICT-ND
	digikey_id	{distributorPn:D1213A-02SOL-7DICT-ND,mfr:Diodes Incorporated,mpn:D1213A-02SOL-7DICT-ND}
	Distributor	
	Distributor PN	

Object	Property Name	Property Value
CA : P2/D24/CA	Name	CA
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
CAT1 : P2/D24/CAT1	Name	CAT1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N817136
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
CAT2 : P2/D24/CAT2	Name	CAT2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N817140
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
INS825111 : P2/C68	Name	INS825111
	ID	1029
	Reference	C68
	Designator	
	Part Reference	C68
	Value	20pF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10C200JB8NNNC
	Description	CAP CER 20PF 50V C0G/NP0 0603
	Digi-Key PN	1276-1187-1-ND
	digikey_id	{distributorPn:1276-1187-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10C200JB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P2/C68/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	SOSCO
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P2/C68/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS998477 : P2/C79	Name	INS998477
	ID	7000
	Reference	C79
	Designator	
	Part Reference	C79
	Value	1nF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	AVX Corporation
	Manufacturer PN	06035C102KAT2A
	Description	CAP CER 1000PF 50V X7R 0603
	Digi-Key PN	478-1215-1-ND
	digikey_id	{distributorPn:478-1215-1-ND,mfr:AVX Corporation,mpn:06035C102KAT2A,u
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P2/C79/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P2/C79/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS808146 : P2/C89	Name	INS808146
	ID	633
	Reference	C89
	Designator	
	Part Reference	C89
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P2/C89/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P2/C89/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS822868 : P2/R64	Name	INS822868
	ID	978
	Reference	R64
	Designator	
	Part Reference	R64
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,mpn:ERJ-2RKF33R2X}
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RKF33R2X
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	0402_res_ipc

Object	Property Name	Property Value
1 : P2/R64/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	ICSPDAT
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P2/R64/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N817140
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS836544 : P2/U18	Name	INS836544
	ID	3130
	Reference	U18
	Designator	L
	Part Reference	U18L
	Value	dsPIC33EP512MU814
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:DSPIC33EP512MU814-I/PH-ND,mfr:Microchip Technology,mpn:DSPIC33EP512MU814-I/PH-ND}
	Digi-Key PN	DSPIC33EP512MU814-I/PH-ND
	Description	IC MCU 16BIT 512KB FLASH 144TQFP
	Manufacturer PN	DSPIC33EP512MU814-I/PH
	Manufacturer	Microchip Technology
	PCB Footprint	tqfp144_16x16mm
	Distributor PN	
	Distributor	
	SWAP_INFO	(S1+S2+S3+S4+S5+S6+S7+S8+S9+S10+S11+S12)
	SPLIT_INST	TRUE

Object	Property Name	Property Value
MC1L R : P2/U18/MC1L R	Name	MC1L R
	Number	19
	Swap Id	-1
	Type	Input
	Net Name	N816136
	Order	0
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RB6/ICSPCLK1 : P2/U18/RB6/ICSPCLK1	Name	RB6/ICSPCLK1
	Number	37
	Swap Id	-1
	Type	Bidirectional
	Net Name	N817136
	Order	1
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RB7/ICSPDAT1 : P2/U18/RB7/ICSPDAT1	Name	RB7/ICSPDAT1
	Number	38
	Swap Id	-1
	Type	Bidirectional
	Net Name	N817140
	Order	2
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RC12/OSC1 : P2/U18/RC12/OSC1	Name	RC12/OSC1
	Number	90
	Swap Id	-1
	Type	Bidirectional
	Net Name	OSC1
	Order	3
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RC15/OSC2 : P2/U18/RC15/OSC2	Name	RC15/OSC2
	Number	91
	Swap Id	-1
	Type	Bidirectional
	Net Name	OSC2
	Order	4
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RC13/SOSCI : P2/U18/RC13/SOSCI	Name	RC13/SOSCI
	Number	106
	Swap Id	-1
	Type	Bidirectional
	Net Name	SOSCI
	Order	5
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RC14/SOSCO : P2/U18/RC14/SOSCO	Name	RC14/SOSCO
	Number	107
	Swap Id	-1
	Type	Bidirectional
	Net Name	SOSCO
	Order	6
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
INS808164 : P2/C92	Name	INS808164
	ID	627
	Reference	C92
	Designator	
	Part Reference	C92
	Value	1nF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	AVX Corporation
	Manufacturer PN	06035C102KAT2A
	Description	CAP CER 1000PF 50V X7R 0603
	Digi-Key PN	478-1215-1-ND
	digikey_id	{distributorPn:478-1215-1-ND,mfr:AVX Corporation,mpn:06035C102KAT2A,uln:
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P2/C92/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P2/C92/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS760037 : P2/C69	Name	INS760037
	ID	522
	Reference	C69
	Designator	
	Part Reference	C69
	Value	10uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0805_cap
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL21A106KOQNNNG
	Description	CAP CER 10uF 16V X5R 0805
	Digi-Key PN	1276-6455-1-ND
	digikey_id	{distributorPn:1276-6455-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL21A106KOQNNNG}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P2/C69/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P2/C69/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS796061 : P2/C85	Name	INS796061
	ID	565
	Reference	C85
	Designator	
	Part Reference	C85
	Value	10uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0805_cap
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL21A106KOQNNNG
	Description	CAP CER 10UF 16V X5R 0805
	Digi-Key PN	1276-6455-1-ND
	digikey_id	{distributorPn:1276-6455-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL21A106KOQNNNG}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P2/C85/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P2/C85/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS823924 : P2/Y1	Name	INS823924
	ID	1012
	Reference	Y1
	Designator	
	Part Reference	Y1
	Value	20.000MHz
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:535-9843-1-ND,mfr:Abracon LLC,mpn:ABM7-20.000MHZ-D2Y-T}
	Digi-Key PN	535-9843-1-ND
	Description	CRYSTAL 20.000MHZ 18PF SMD
	Manufacturer PN	ABM7-20.000MHZ-D2Y-T
	Manufacturer	Abracon LLC
	PCB Footprint	ABM7
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P2/Y1/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	OSC1
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P2/Y1/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	OSC2
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS991460 : P2/C62	Name	INS991460
	ID	6991
	Reference	C62
	Designator	
	Part Reference	C62
	Value	10uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0805_cap
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL21A106KOQNNNG
	Description	CAP CER 10UF 16V X5R 0805
	Digi-Key PN	1276-6455-1-ND
	digikey_id	{distributorPn:1276-6455-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL21A106KOQNNNG}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P2/C62/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	Vcap
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P2/C62/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS796079 : P2/C88	Name	INS796079
	ID	559
	Reference	C88
	Designator	
	Part Reference	C88
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P2/C88/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P2/C88/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS796097 : P2/C91	Name	INS796097
	ID	562
	Reference	C91
	Designator	
	Part Reference	C91
	Value	1nF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	AVX Corporation
	Manufacturer PN	06035C102KAT2A
	Description	CAP CER 1000PF 50V X7R 0603
	Digi-Key PN	478-1215-1-ND
	digikey_id	{distributorPn:478-1215-1-ND,mfr:AVX Corporation,mpn:06035C102KAT2A,u
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P2/C91/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P2/C91/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS822838 : P2/R63	Name	INS822838
	ID	975
	Reference	R63
	Designator	
	Part Reference	R63
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,rpn:ERJ-0402_P33.2LCT-ND}
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RKF33R2X
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	0402_res_ipc

Object	Property Name	Property Value
1 : P2/R63/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	ICSPCLK
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P2/R63/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N817136
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS834637 : P2/C74	Name	INS834637
	ID	3065
	Reference	C74
	Designator	
	Part Reference	C74
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P2/C74/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P2/C74/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS824234 : P2/C63	Name	INS824234
	ID	1022
	Reference	C63
	Designator	
	Part Reference	C63
	Value	18pF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	KEMET
	Manufacturer PN	C0603C180J5GACTU
	Description	CAP CER 18PF 50V C0G/NP0 0603
	Digi-Key PN	399-1052-1-ND
	digikey_id	{distributorPn:399-1052-1-ND,mfr:KEMET,mpn:C0603C180J5GACTU,ul:(uid:1022)}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P2/C63/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	OSC2
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P2/C63/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS796830 : P2/C80	Name	INS796830
	ID	583
	Reference	C80
	Designator	
	Part Reference	C80
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P2/C80/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P2/C80/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS834281 : P2/C73	Name	INS834281
	ID	3062
	Reference	C73
	Designator	
	Part Reference	C73
	Value	10uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0805_cap
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL21A106KOQNNNG
	Description	CAP CER 10UF 16V X5R 0805
	Digi-Key PN	1276-6455-1-ND
	digikey_id	{distributorPn:1276-6455-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL21A106KOQNNNG}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P2/C73/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P2/C73/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
Line	Name	I829990
	Color	Default
	Start X-Coordinate	10
	Start Y-Coordinate	890
	End X-Coordinate	590
	End Y-Coordinate	890

Object	Property Name	Property Value
Capacitor are 0603 -20% 16V unless otherwise noted	Name	I830002
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	565
	Bounding Box Top	920
	Bounding Box Bottom	939
	Text	Capacitor are 0603 -20% 16V unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	920
	Font	Courier New

Object	Property Name	Property Value
Resistors are 0603 -1% 1/10W unless otherwise noted	Name	I830008
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	576
	Bounding Box Top	900
	Bounding Box Bottom	919
	Text	Resistors are 0603 -1% 1/10W unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	900
	Font	Courier New

Object	Property Name	Property Value
dsPIC33EP512MU814 GPIO pin mapping	Name	I1129656
	Color	Default
	Bounding Box Left	1338
	Bounding Box Right	1478
	Bounding Box Top	10
	Bounding Box Bottom	36
	Text	dsPIC33EP512MU814 GPIO pin mapping
	Text Location X-Coordinate	1338
	Text Location Y-Coordinate	10
	Font	Courier New

Object	Property Name	Property Value
USB_D+ : P1/USB_D+ (Wire ID = 829848 )	Color	Default
	DIFFERENTIAL_PAIR	DP1
	Name	USB_D+

Object	Property Name	Property Value
USB_D- : P1/USB_D- (Wire ID = 829852 )	Color	Default
	DIFFERENTIAL_PAIR	DP1
	Name	USB_D-

Object	Property Name	Property Value
SPI2_MISO : P1/SPI2_MISO (Wire ID = 829932 )	Color	Default
	Name	SPI2_MISO

Object	Property Name	Property Value
SD_nCS : P1/SD_NCS (Wire ID = 829971 )	Color	Default
	Name	SD_NCS

Object	Property Name	Property Value
QEA2 : P1/QEA2 (Wire ID = 830167 )	Color	Default
	Name	QEA2

Object	Property Name	Property Value
QEB2 : P1/QEB2 (Wire ID = 830171 )	Color	Default
	Name	QEB2

Object	Property Name	Property Value
PWM1L : P1/PWM1L (Wire ID = 830236 )	Color	Default
	Name	PWM1L

Object	Property Name	Property Value
PWM1H : P1/PWM1H (Wire ID = 830248 )	Color	Default
	Name	PWM1H

Object	Property Name	Property Value
PWM2L : P1/PWM2L (Wire ID = 830260 )	Color	Default
	Name	PWM2L

Object	Property Name	Property Value
PWM2H : P1/PWM2H (Wire ID = 830272 )	Color	Default
	Name	PWM2H

Object	Property Name	Property Value
QEA1 : P1/QEA1 (Wire ID = 830298 )	Color	Default
	Name	QEA1

Object	Property Name	Property Value
QEB1 : P1/QEB1 (Wire ID = 830310 )	Color	Default
	Name	QEB1

Object	Property Name	Property Value
N832416 : P1/N832416 (Wire ID = 832416 )	Color	Default
	Name	N832416

Object	Property Name	Property Value
I2S_DIN : P1/I2S_DIN (Wire ID = 832533 )	Color	Default
	Name	I2S_DIN

Object	Property Name	Property Value
SPI3_nCS : P1/SPI3_NCS (Wire ID = 832603 )	Color	Default
	Name	SPI3_NCS

Object	Property Name	Property Value
nFAULT1 : P1/nFAULT1 (Wire ID = 832627 )	Color	Default
	Name	nFAULT1

Object	Property Name	Property Value
nFAULT : P1/NFAULT2 (Wire ID = 832651 )	Color	Default
	Name	NFAULT2

Object	Property Name	Property Value
PWM4H : P1/PWM4H (Wire ID = 832821 )	Color	Default
	Name	PWM4H

Object	Property Name	Property Value
PWM5L : P1/PWM5L (Wire ID = 832849 )	Color	Default
	Name	PWM5L

Object	Property Name	Property Value
ASDA1 : P1/ASDA1 (Wire ID = 832879 )	Color	Default
	Name	ASDA1

Object	Property Name	Property Value
SD_nDETECT : P1/SD_NDETECT (Wire ID = 832998 )	Color	Default
	Name	SD_NDETECT

Object	Property Name	Property Value
ASCL1 : P1/ASCL1 (Wire ID = 833023 )	Color	Default
	Name	ASCL1

Object	Property Name	Property Value
ASCL2 : P1/ASCL2 (Wire ID = 833531 )	Color	Default
	Name	ASCL2

Object	Property Name	Property Value
ASDA2 : P1/ASDA2 (Wire ID = 833535 )	Color	Default
	Name	ASDA2

Object	Property Name	Property Value
MKB1_RST : P1/MKB1_RST (Wire ID = 833680 )	Color	Default
	Name	MKB1_RST

Object	Property Name	Property Value
MKB1_nCS : P1/MKB1_NCS (Wire ID = 833714 )	Color	Default
	Name	MKB1_NCS

Object	Property Name	Property Value
MKB1_INT : P1/MKB1_INT (Wire ID = 833744 )	Color	Default
	Name	MKB1_INT

Object	Property Name	Property Value
SPI4_MISO : P1/SPI4_MISO (Wire ID = 833774 )	Color	Default
	Name	SPI4_MISO

Object	Property Name	Property Value
N833906 : P1/N833906 (Wire ID = 833906 )	Color	Default
	Name	N833906

Object	Property Name	Property Value
UART2_RX : P1/UART2_RX (Wire ID = 833966 )	Color	Default
	Name	UART2_RX

Object	Property Name	Property Value
FT8XX_nINT : P1/FT8XX_NINT (Wire ID = 834004 )	Color	Default
	Name	FT8XX_NINT

Object	Property Name	Property Value
FT8XX_nPD : P1/FT8XX_NPD (Wire ID = 834032 )	Color	Default
	Name	FT8XX_NPD

Object	Property Name	Property Value
SPI1_nCS : P1/SPI1_NCS (Wire ID = 834068 )	Color	Default
	Name	SPI1_NCS

Object	Property Name	Property Value
SPI1_MISO : P1/SPI1_MISO (Wire ID = 834144 )	Color	Default
	Name	SPI1_MISO

Object	Property Name	Property Value
N834178 : P1/N834178 (Wire ID = 834178 )	Color	Default
	Name	N834178

Object	Property Name	Property Value
N834219 : P1/N834219 (Wire ID = 834219 )	Color	Default
	Name	N834219

Object	Property Name	Property Value
CAN_LBK : P1/CAN_LBK (Wire ID = 835125 )	Color	Default
	Name	CAN_LBK

Object	Property Name	Property Value
N835155 : P1/N835155 (Wire ID = 835155 )	Color	Default
	Name	N835155

Object	Property Name	Property Value
CAN_RX : P1/CAN_RX (Wire ID = 835179 )	Color	Default
	Name	CAN_RX

Object	Property Name	Property Value
N835215 : P1/N835215 (Wire ID = 835215 )	Color	Default
	Name	N835215

Object	Property Name	Property Value
N835239 : P1/N835239 (Wire ID = 835239 )	Color	Default
	Name	N835239

Object	Property Name	Property Value
N835264 : P1/N835264 (Wire ID = 835264 )	Color	Default
	Name	N835264

Object	Property Name	Property Value
N835290 : P1/N835290 (Wire ID = 835290 )	Color	Default
	Name	N835290

Object	Property Name	Property Value
N835370 : P1/N835370 (Wire ID = 835370 )	Color	Default
	Name	N835370

Object	Property Name	Property Value
N835374 : P1/N835374 (Wire ID = 835374 )	Color	Default
	Name	N835374

Object	Property Name	Property Value
N835448 : P1/N835448 (Wire ID = 835448 )	Color	Default
	Name	N835448

Object	Property Name	Property Value
N835458 : P1/N835458 (Wire ID = 835458 )	Color	Default
	Name	N835458

Object	Property Name	Property Value
N835468 : P1/N835468 (Wire ID = 835468 )	Color	Default
	Name	N835468

Object	Property Name	Property Value
N835472 : P1/N835472 (Wire ID = 835472 )	Color	Default
	Name	N835472

Object	Property Name	Property Value
N835588 : P1/N835588 (Wire ID = 835588 )	Color	Default
	Name	N835588

Object	Property Name	Property Value
N835695 : P1/N835695 (Wire ID = 835695 )	Color	Default
	Name	N835695

Object	Property Name	Property Value
N835705 : P1/N835705 (Wire ID = 835705 )	Color	Default
	Name	N835705

Object	Property Name	Property Value
N835715 : P1/N835715 (Wire ID = 835715 )	Color	Default
	Name	N835715

Object	Property Name	Property Value
N835719 : P1/N835719 (Wire ID = 835719 )	Color	Default
	Name	N835719

Object	Property Name	Property Value
N835809 : P1/N835809 (Wire ID = 835809 )	Color	Default
	Name	N835809

Object	Property Name	Property Value
N836098 : P1/N836098 (Wire ID = 836098 )	Color	Default
	Name	N836098

Object	Property Name	Property Value
N836108 : P1/N836108 (Wire ID = 836108 )	Color	Default
	Name	N836108

Object	Property Name	Property Value
N836118 : P1/N836118 (Wire ID = 836118 )	Color	Default
	Name	N836118

Object	Property Name	Property Value
N836122 : P1/N836122 (Wire ID = 836122 )	Color	Default
	Name	N836122

Object	Property Name	Property Value
N836194 : P1/N836194 (Wire ID = 836194 )	Color	Default
	Name	N836194

Object	Property Name	Property Value
N836204 : P1/N836204 (Wire ID = 836204 )	Color	Default
	Name	N836204

Object	Property Name	Property Value
N836214 : P1/N836214 (Wire ID = 836214 )	Color	Default
	Name	N836214

Object	Property Name	Property Value
N836218 : P1/N836218 (Wire ID = 836218 )	Color	Default
	Name	N836218

Object	Property Name	Property Value
UART1_RX : P1/UART1_RX (Wire ID = 838383 )	Color	Default
	Name	UART1_RX

Object	Property Name	Property Value
N838411 : P1/N838411 (Wire ID = 838411 )	Color	Default
	Name	N838411

Object	Property Name	Property Value
UART1_RTS : P1/UART1_RTS (Wire ID = 838520 )	Color	Default
	Name	UART1_RTS

Object	Property Name	Property Value
UART1_CTS : P1/UART1_CTS (Wire ID = 838524 )	Color	Default
	Name	UART1_CTS

Object	Property Name	Property Value
PWM5H : P1/PWM5H (Wire ID = 839293 )	Color	Default
	Name	PWM5H

Object	Property Name	Property Value
PWM6L : P1/PWM6L (Wire ID = 839317 )	Color	Default
	Name	PWM6L

Object	Property Name	Property Value
PWM6H : P1/PWM6H (Wire ID = 839342 )	Color	Default
	Name	PWM6H

Object	Property Name	Property Value
AIN_AN12 : P1/AIN_AN12 (Wire ID = 839713 )	Color	Default
	Name	AIN_AN12

Object	Property Name	Property Value
AIN_AN13 : P1/AIN_AN13 (Wire ID = 839737 )	Color	Default
	Name	AIN_AN13

Object	Property Name	Property Value
AIN_AN0 : P1/AIN_AN0 (Wire ID = 839899 )	Color	Default
	Name	AIN_AN0

Object	Property Name	Property Value
AIN_AN1 : P1/AIN_AN1 (Wire ID = 839903 )	Color	Default
	Name	AIN_AN1

Object	Property Name	Property Value
AIN_AN14 : P1/AIN_AN14 (Wire ID = 839957 )	Color	Default
	Name	AIN_AN14

Object	Property Name	Property Value
AIN_AN15 : P1/AIN_AN15 (Wire ID = 839961 )	Color	Default
	Name	AIN_AN15

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
FLASH_nCS : P1/FLASH_NCS (Wire ID = 840348 )	Color	Default
	Name	FLASH_NCS

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
FLASH_nWP : P1/FLASH_NWP (Wire ID = 840946 )	Color	Default
	Name	FLASH_NWP

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
FLASH_nHOLD : P1/FLASH_NHOLD (Wire ID = 840972 )	Color	Default
	Name	FLASH_NHOLD

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
MKB1_AN20 : P1/MKB1_AN20 (Wire ID = 841045 )	Color	Default
	Name	MKB1_AN20

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
MKB2_AN21 : P1/MKB2_AN21 (Wire ID = 841055 )	Color	Default
	Name	MKB2_AN21

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
MKB2_INT : P1/MKB2_INT (Wire ID = 841121 )	Color	Default
	Name	MKB2_INT

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
MKB2_RST : P1/MKB2_RST (Wire ID = 841154 )	Color	Default
	Name	MKB2_RST

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
MKB2_nCS : P1/MKB2_NCS (Wire ID = 841184 )	Color	Default
	Name	MKB2_NCS

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
SPI3_SCLK : P1/SPI3_SCLK (Wire ID = 841245 )	Color	Default
	Name	SPI3_SCLK

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N841249 : P1/N841249 (Wire ID = 841249 )	Color	Default
	Name	N841249

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
SPI3_MOSI : P1/SPI3_MOSI (Wire ID = 841336 )	Color	Default
	Name	SPI3_MOSI

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N841340 : P1/N841340 (Wire ID = 841340 )	Color	Default
	Name	N841340

Object	Property Name	Property Value
N841348 : P1/N841348 (Wire ID = 841348 )	Color	Default
	Name	N841348

Object	Property Name	Property Value
N841348 : P1/N841348 (Wire ID = 841350 )	Color	Default
	Name	N841348

Object	Property Name	Property Value
SPI4_SCLK : P1/SPI4_SCLK (Wire ID = 841403 )	Color	Default
	Name	SPI4_SCLK

Object	Property Name	Property Value
N841348 : P1/N841348 (Wire ID = 841407 )	Color	Default
	Name	N841348

Object	Property Name	Property Value
SPI2_SCLK : P1/SPI2_SCLK (Wire ID = 841539 )	Color	Default
	Name	SPI2_SCLK

Object	Property Name	Property Value
N841543 : P1/N841543 (Wire ID = 841543 )	Color	Default
	Name	N841543

Object	Property Name	Property Value
SPI2_MOSI : P1/SPI2_MOSI (Wire ID = 841557 )	Color	Default
	Name	SPI2_MOSI

Object	Property Name	Property Value
N841561 : P1/N841561 (Wire ID = 841561 )	Color	Default
	Name	N841561

Object	Property Name	Property Value
CAN_TX : P1/CAN_TX (Wire ID = 841697 )	Color	Default
	Name	CAN_TX

Object	Property Name	Property Value
N834219 : P1/N834219 (Wire ID = 841879 )	Color	Default
	Name	N834219

Object	Property Name	Property Value
N834219 : P1/N834219 (Wire ID = 841881 )	Color	Default
	Name	N834219

Object	Property Name	Property Value
SPI1_MOSI : P1/SPI1_MOSI (Wire ID = 841895 )	Color	Default
	Name	SPI1_MOSI

Object	Property Name	Property Value
SPI1_SCLK : P1/SPI1_SCLK (Wire ID = 841978 )	Color	Default
	Name	SPI1_SCLK

Object	Property Name	Property Value
SPI4_MOSI : P1/SPI4_MOSI (Wire ID = 842048 )	Color	Default
	Name	SPI4_MOSI

Object	Property Name	Property Value
UART1_TX : P1/UART1_TX (Wire ID = 843107 )	Color	Default
	Name	UART1_TX

Object	Property Name	Property Value
N843121 : P1/N843121 (Wire ID = 843121 )	Color	Default
	Name	N843121

Object	Property Name	Property Value
N843121 : P1/N843121 (Wire ID = 843162 )	Color	Default
	Name	N843121

Object	Property Name	Property Value
N843121 : P1/N843121 (Wire ID = 843166 )	Color	Default
	Name	N843121

Object	Property Name	Property Value
UART2_TX : P1/UART2_TX (Wire ID = 843184 )	Color	Default
	Name	UART2_TX

Object	Property Name	Property Value
N833906 : P1/N833906 (Wire ID = 843192 )	Color	Default
	Name	N833906

Object	Property Name	Property Value
N833906 : P1/N833906 (Wire ID = 843194 )	Color	Default
	Name	N833906

Object	Property Name	Property Value
N843340 : P1/N843340 (Wire ID = 843340 )	Color	Default
	Name	N843340

Object	Property Name	Property Value
N843340 : P1/N843340 (Wire ID = 843342 )	Color	Default
	Name	N843340

Object	Property Name	Property Value
I2S_DOUT : P1/I2S_DOUT (Wire ID = 843393 )	Color	Default
	Name	I2S_DOUT

Object	Property Name	Property Value
N843340 : P1/N843340 (Wire ID = 843397 )	Color	Default
	Name	N843340

Object	Property Name	Property Value
N843655 : P1/N843655 (Wire ID = 843655 )	Color	Default
	Name	N843655

Object	Property Name	Property Value
N843655 : P1/N843655 (Wire ID = 843657 )	Color	Default
	Name	N843655

Object	Property Name	Property Value
I2S_SCLK : P1/I2S_SCLK (Wire ID = 843700 )	Color	Default
	Name	I2S_SCLK

Object	Property Name	Property Value
N843655 : P1/N843655 (Wire ID = 843704 )	Color	Default
	Name	N843655

Object	Property Name	Property Value
I2S_COFS : P1/I2S_COFS (Wire ID = 843857 )	Color	Default
	Name	I2S_COFS

Object	Property Name	Property Value
N832416 : P1/N832416 (Wire ID = 843861 )	Color	Default
	Name	N832416

Object	Property Name	Property Value
N832416 : P1/N832416 (Wire ID = 843865 )	Color	Default
	Name	N832416

Object	Property Name	Property Value
DVDD_3V3 : P1/DVDD_3V3 (Wire ID = 967742 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P1/DVDD_3V3 (Wire ID = 967746 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P1/DVDD_3V3 (Wire ID = 967750 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P1/DVDD_3V3 (Wire ID = 967754 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
ASCL2 : P1/ASCL2 (Wire ID = 967830 )	Color	Default
	Name	ASCL2

Object	Property Name	Property Value
ASDA2 : P1/ASDA2 (Wire ID = 967834 )	Color	Default
	Name	ASDA2

Object	Property Name	Property Value
ASCL1 : P1/ASCL1 (Wire ID = 967838 )	Color	Default
	Name	ASCL1

Object	Property Name	Property Value
ASDA1 : P1/ASDA1 (Wire ID = 967842 )	Color	Default
	Name	ASDA1

Object	Property Name	Property Value
ASCL2 : P1/ASCL2 (Wire ID = 967846 )	Color	Default
	Name	ASCL2

Object	Property Name	Property Value
ASCL1 : P1/ASCL1 (Wire ID = 967852 )	Color	Default
	Name	ASCL1

Object	Property Name	Property Value
ASDA2 : P1/ASDA2 (Wire ID = 967858 )	Color	Default
	Name	ASDA2

Object	Property Name	Property Value
ASDA1 : P1/ASDA1 (Wire ID = 967864 )	Color	Default
	Name	ASDA1

Object	Property Name	Property Value
PMP_GPIO : P1/PMP_GPIO (Wire ID = 969838 )	Color	Default
	Name	PMP_GPIO

Object	Property Name	Property Value
RTCC_ALARM : P1/RTCC_ALARM (Wire ID = 969874 )	Color	Default
	Name	RTCC_ALARM

Object	Property Name	Property Value
PMD0 : P1/PMD0 (Wire ID = 1097258 )	Color	Default
	Name	PMD0

Object	Property Name	Property Value
PMD1 : P1/PMD1 (Wire ID = 1097260 )	Color	Default
	Name	PMD1

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
PMD2 : P1/PMD2 (Wire ID = 1097262 )	Color	Default
	Name	PMD2

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
PMD3 : P1/PMD3 (Wire ID = 1097264 )	Color	Default
	Name	PMD3

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
PMD4 : P1/PMD4 (Wire ID = 1097286 )	Color	Default
	Name	PMD4

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
PMD5 : P1/PMD5 (Wire ID = 1097288 )	Color	Default
	Name	PMD5

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
PMD6 : P1/PMD6 (Wire ID = 1097290 )	Color	Default
	Name	PMD6

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
PMD7 : P1/PMD7 (Wire ID = 1097292 )	Color	Default
	Name	PMD7

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N835448 : P1/N835448 (Wire ID = 1097334 )	Color	Default
	Name	N835448

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N835448 : P1/N835448 (Wire ID = 1097338 )	Color	Default
	Name	N835448

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N835458 : P1/N835458 (Wire ID = 1097348 )	Color	Default
	Name	N835458

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N835458 : P1/N835458 (Wire ID = 1097352 )	Color	Default
	Name	N835458

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N835468 : P1/N835468 (Wire ID = 1097362 )	Color	Default
	Name	N835468

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N835468 : P1/N835468 (Wire ID = 1097366 )	Color	Default
	Name	N835468

Object	Property Name	Property Value
N835472 : P1/N835472 (Wire ID = 1097376 )	Color	Default
	Name	N835472

Object	Property Name	Property Value
N835472 : P1/N835472 (Wire ID = 1097380 )	Color	Default
	Name	N835472

Object	Property Name	Property Value
N835695 : P1/N835695 (Wire ID = 1097390 )	Color	Default
	Name	N835695

Object	Property Name	Property Value
N835695 : P1/N835695 (Wire ID = 1097394 )	Color	Default
	Name	N835695

Object	Property Name	Property Value
N835705 : P1/N835705 (Wire ID = 1097404 )	Color	Default
	Name	N835705

Object	Property Name	Property Value
N835705 : P1/N835705 (Wire ID = 1097408 )	Color	Default
	Name	N835705

Object	Property Name	Property Value
N835715 : P1/N835715 (Wire ID = 1097418 )	Color	Default
	Name	N835715

Object	Property Name	Property Value
N835715 : P1/N835715 (Wire ID = 1097422 )	Color	Default
	Name	N835715

Object	Property Name	Property Value
N835719 : P1/N835719 (Wire ID = 1097432 )	Color	Default
	Name	N835719

Object	Property Name	Property Value
N835719 : P1/N835719 (Wire ID = 1097436 )	Color	Default
	Name	N835719

Object	Property Name	Property Value
PMA0 : P1/PMA0 (Wire ID = 1099178 )	Color	Default
	Name	PMA0

Object	Property Name	Property Value
PMA1 : P1/PMA1 (Wire ID = 1099180 )	Color	Default
	Name	PMA1

Object	Property Name	Property Value
PMA2 : P1/PMA2 (Wire ID = 1099182 )	Color	Default
	Name	PMA2

Object	Property Name	Property Value
PMA3 : P1/PMA3 (Wire ID = 1099184 )	Color	Default
	Name	PMA3

Object	Property Name	Property Value
PMA4 : P1/PMA4 (Wire ID = 1099186 )	Color	Default
	Name	PMA4

Object	Property Name	Property Value
PMA5 : P1/PMA5 (Wire ID = 1099188 )	Color	Default
	Name	PMA5

Object	Property Name	Property Value
PMA6 : P1/PMA6 (Wire ID = 1099190 )	Color	Default
	Name	PMA6

Object	Property Name	Property Value
PMA7 : P1/PMA7 (Wire ID = 1099192 )	Color	Default
	Name	PMA7

Object	Property Name	Property Value
PMA8 : P1/PMA8 (Wire ID = 1099194 )	Color	Default
	Name	PMA8

Object	Property Name	Property Value
PMA9 : P1/PMA9 (Wire ID = 1099196 )	Color	Default
	Name	PMA9

Object	Property Name	Property Value
PMA10 : P1/PMA10 (Wire ID = 1099198 )	Color	Default
	Name	PMA10

Object	Property Name	Property Value
PMA11 : P1/PMA11 (Wire ID = 1099200 )	Color	Default
	Name	PMA11

Object	Property Name	Property Value
PMA12 : P1/PMA12 (Wire ID = 1099232 )	Color	Default
	Name	PMA12

Object	Property Name	Property Value
PMA13 : P1/PMA13 (Wire ID = 1099234 )	Color	Default
	Name	PMA13

Object	Property Name	Property Value
N836098 : P1/N836098 (Wire ID = 1099240 )	Color	Default
	Name	N836098

Object	Property Name	Property Value
N836098 : P1/N836098 (Wire ID = 1099242 )	Color	Default
	Name	N836098

Object	Property Name	Property Value
N836108 : P1/N836108 (Wire ID = 1099248 )	Color	Default
	Name	N836108

Object	Property Name	Property Value
N836108 : P1/N836108 (Wire ID = 1099252 )	Color	Default
	Name	N836108

Object	Property Name	Property Value
N836118 : P1/N836118 (Wire ID = 1099262 )	Color	Default
	Name	N836118

Object	Property Name	Property Value
N836118 : P1/N836118 (Wire ID = 1099266 )	Color	Default
	Name	N836118

Object	Property Name	Property Value
N836122 : P1/N836122 (Wire ID = 1099276 )	Color	Default
	Name	N836122

Object	Property Name	Property Value
N836122 : P1/N836122 (Wire ID = 1099280 )	Color	Default
	Name	N836122

Object	Property Name	Property Value
N836194 : P1/N836194 (Wire ID = 1099290 )	Color	Default
	Name	N836194

Object	Property Name	Property Value
N836194 : P1/N836194 (Wire ID = 1099294 )	Color	Default
	Name	N836194

Object	Property Name	Property Value
N836204 : P1/N836204 (Wire ID = 1099304 )	Color	Default
	Name	N836204

Object	Property Name	Property Value
N836204 : P1/N836204 (Wire ID = 1099308 )	Color	Default
	Name	N836204

Object	Property Name	Property Value
N836214 : P1/N836214 (Wire ID = 1099334 )	Color	Default
	Name	N836214

Object	Property Name	Property Value
N836214 : P1/N836214 (Wire ID = 1099338 )	Color	Default
	Name	N836214

Object	Property Name	Property Value
N836218 : P1/N836218 (Wire ID = 1099348 )	Color	Default
	Name	N836218

Object	Property Name	Property Value
N836218 : P1/N836218 (Wire ID = 1099352 )	Color	Default
	Name	N836218

Object	Property Name	Property Value
N835215 : P1/N835215 (Wire ID = 1099481 )	Color	Default
	Name	N835215

Object	Property Name	Property Value
N835215 : P1/N835215 (Wire ID = 1099485 )	Color	Default
	Name	N835215

Object	Property Name	Property Value
N835239 : P1/N835239 (Wire ID = 1099495 )	Color	Default
	Name	N835239

Object	Property Name	Property Value
N835239 : P1/N835239 (Wire ID = 1099499 )	Color	Default
	Name	N835239

Object	Property Name	Property Value
N835264 : P1/N835264 (Wire ID = 1099509 )	Color	Default
	Name	N835264

Object	Property Name	Property Value
N835264 : P1/N835264 (Wire ID = 1099513 )	Color	Default
	Name	N835264

Object	Property Name	Property Value
N835290 : P1/N835290 (Wire ID = 1099523 )	Color	Default
	Name	N835290

Object	Property Name	Property Value
N835290 : P1/N835290 (Wire ID = 1099527 )	Color	Default
	Name	N835290

Object	Property Name	Property Value
N835370 : P1/N835370 (Wire ID = 1099537 )	Color	Default
	Name	N835370

Object	Property Name	Property Value
N835370 : P1/N835370 (Wire ID = 1099541 )	Color	Default
	Name	N835370

Object	Property Name	Property Value
N835374 : P1/N835374 (Wire ID = 1099561 )	Color	Default
	Name	N835374

Object	Property Name	Property Value
N835374 : P1/N835374 (Wire ID = 1099565 )	Color	Default
	Name	N835374

Object	Property Name	Property Value
PMCS1 : P1/PMCS1 (Wire ID = 1099778 )	Color	Default
	Name	PMCS1

Object	Property Name	Property Value
PMCS2 : P1/PMCS2 (Wire ID = 1099780 )	Color	Default
	Name	PMCS2

Object	Property Name	Property Value
PMBE : P1/PMBE (Wire ID = 1099782 )	Color	Default
	Name	PMBE

Object	Property Name	Property Value
PMWR : P1/PMWR (Wire ID = 1099784 )	Color	Default
	Name	PMWR

Object	Property Name	Property Value
N835588 : P1/N835588 (Wire ID = 1099846 )	Color	Default
	Name	N835588

Object	Property Name	Property Value
N835588 : P1/N835588 (Wire ID = 1099850 )	Color	Default
	Name	N835588

Object	Property Name	Property Value
PMRD : P1/PMRD (Wire ID = 1099860 )	Color	Default
	Name	PMRD

Object	Property Name	Property Value
LED_1 : P1/LED_1 (Wire ID = 1102426 )	Color	Default
	Name	LED_1

Object	Property Name	Property Value
LED_2 : P1/LED_2 (Wire ID = 1102450 )	Color	Default
	Name	LED_2

Object	Property Name	Property Value
LED_3 : P1/LED_3 (Wire ID = 1102475 )	Color	Default
	Name	LED_3

Object	Property Name	Property Value
LED_4 : P1/LED_4 (Wire ID = 1102544 )	Color	Default
	Name	LED_4

Object	Property Name	Property Value
ROT_ENC_SW : P1/ROT_ENC_SW (Wire ID = 1102601 )	Color	Default
	Name	ROT_ENC_SW

Object	Property Name	Property Value
ROT_ENC_A : P1/ROT_ENC_A (Wire ID = 1102633 )	Color	Default
	Name	ROT_ENC_A

Object	Property Name	Property Value
ROT_ENC_B : P1/ROT_ENC_B (Wire ID = 1102657 )	Color	Default
	Name	ROT_ENC_B

Object	Property Name	Property Value
AIN_AN2_POT : P1/AIN_AN2_POT (Wire ID = 1102712 )	Color	Default
	Name	AIN_AN2_POT

Object	Property Name	Property Value
SWPWM_RGB_R : P1/SWPWM_RGB_R (Wire ID = 1102915 )	Color	Default
	Name	SWPWM_RGB_R

Object	Property Name	Property Value
SWPWM_RGB_G : P1/SWPWM_RGB_G (Wire ID = 1102958 )	Color	Default
	Name	SWPWM_RGB_G

Object	Property Name	Property Value
SWPWM_RGB_B : P1/SWPWM_RGB_B (Wire ID = 1102981 )	Color	Default
	Name	SWPWM_RGB_B

Object	Property Name	Property Value
BTN_2 : P1/BTN_2 (Wire ID = 1102898 )	Color	Default
	Name	BTN_2

Object	Property Name	Property Value
BTN_3 : P1/BTN_3 (Wire ID = 1102947 )	Color	Default
	Name	BTN_3

Object	Property Name	Property Value
BTN_4 : P1/BTN_4 (Wire ID = 1102998 )	Color	Default
	Name	BTN_4

Object	Property Name	Property Value
UART3_TX : P1/UART3_TX (Wire ID = 1109164 )	Color	Default
	Name	UART3_TX

Object	Property Name	Property Value
BTN_1 : P1/BTN_1 (Wire ID = 1109194 )	Color	Default
	Name	BTN_1

Object	Property Name	Property Value
UART3_RX : P1/UART3_RX (Wire ID = 1109217 )	Color	Default
	Name	UART3_RX

Object	Property Name	Property Value
N1117112 : P1/N1117112 (Wire ID = 1117112 )	Color	Default
	Name	N1117112

Object	Property Name	Property Value
N1117112 : P1/N1117112 (Wire ID = 1117116 )	Color	Default
	Name	N1117112

Object	Property Name	Property Value
N1117112 : P1/N1117112 (Wire ID = 1117120 )	Color	Default
	Name	N1117112

Object	Property Name	Property Value
N835809 : P1/N835809 (Wire ID = 1117135 )	Color	Default
	Name	N835809

Object	Property Name	Property Value
N835809 : P1/N835809 (Wire ID = 1117137 )	Color	Default
	Name	N835809

Object	Property Name	Property Value
N1117153 : P1/N1117153 (Wire ID = 1117153 )	Color	Default
	Name	N1117153

Object	Property Name	Property Value
N1117153 : P1/N1117153 (Wire ID = 1117155 )	Color	Default
	Name	N1117153

Object	Property Name	Property Value
N1117153 : P1/N1117153 (Wire ID = 1117159 )	Color	Default
	Name	N1117153

Object	Property Name	Property Value
N1117172 : P1/N1117172 (Wire ID = 1117172 )	Color	Default
	Name	N1117172

Object	Property Name	Property Value
N1117172 : P1/N1117172 (Wire ID = 1117174 )	Color	Default
	Name	N1117172

Object	Property Name	Property Value
N1117172 : P1/N1117172 (Wire ID = 1117178 )	Color	Default
	Name	N1117172

Object	Property Name	Property Value
ASCL2 : P1/ASCL2 (Wire ID = 1128460 )	Color	Default
	Name	ASCL2

Object	Property Name	Property Value
ASCL2 : P1/ASCL2 (Wire ID = 1128464 )	Color	Default
	Name	ASCL2

Object	Property Name	Property Value
ASDA2 : P1/ASDA2 (Wire ID = 1128472 )	Color	Default
	Name	ASDA2

Object	Property Name	Property Value
ASDA2 : P1/ASDA2 (Wire ID = 1128476 )	Color	Default
	Name	ASDA2

Object	Property Name	Property Value
ASCL1 : P1/ASCL1 (Wire ID = 1128484 )	Color	Default
	Name	ASCL1

Object	Property Name	Property Value
ASCL1 : P1/ASCL1 (Wire ID = 1128488 )	Color	Default
	Name	ASCL1

Object	Property Name	Property Value
ASDA1 : P1/ASDA1 (Wire ID = 1128496 )	Color	Default
	Name	ASDA1

Object	Property Name	Property Value
ASDA1 : P1/ASDA1 (Wire ID = 1128500 )	Color	Default
	Name	ASDA1

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
USB_D+ : P1/USB_D+	Name	USB_D+
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	USB_NATIVE_D+_MCU
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
USB_D- : P1/USB_D-	Name	USB_D-
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	USB_NATIVE_D-_MCU
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
SPI2_MISO : P1/SPI2_MISO	Name	SPI2_MISO
	Number	
	Swap Id	-1
	Type	Input
	Net Name	SPI2_MISO
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
SD_nCS : P1/SD_nCS	Name	SD_nCS
	Number	
	Swap Id	-1
	Type	Output
	Net Name	SD_nCS
	Order	83
	Is No Connect	False

Object	Property Name	Property Value
QEB1 : P1/QEB1	Name	QEB1
	Number	
	Swap Id	-1
	Type	Input
	Net Name	QEB1
	Order	9
	Is No Connect	False

Object	Property Name	Property Value
QEA1 : P1/QEA1	Name	QEA1
	Number	
	Swap Id	-1
	Type	Input
	Net Name	QEA1
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
QEA2 : P1/QEA2	Name	QEA2
	Number	
	Swap Id	-1
	Type	Input
	Net Name	QEA2
	Order	8
	Is No Connect	False

Object	Property Name	Property Value
QEB2 : P1/QEB2	Name	QEB2
	Number	
	Swap Id	-1
	Type	Input
	Net Name	QEB2
	Order	12
	Is No Connect	False

Object	Property Name	Property Value
PWM1L : P1/PWM1L	Name	PWM1L
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PWM1L
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
PWM1H : P1/PWM1H	Name	PWM1H
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PWM1H
	Order	11
	Is No Connect	False

Object	Property Name	Property Value
PWM2L : P1/PWM2L	Name	PWM2L
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PWM2L
	Order	10
	Is No Connect	False

Object	Property Name	Property Value
PWM2H : P1/PWM2H	Name	PWM2H
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PWM2H
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
I2S_SCLK : P1/I2S_SCLK	Name	I2S_SCLK
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	I2S_SCLK
	Order	17
	Is No Connect	False

Object	Property Name	Property Value
I2S_DOUT : P1/I2S_DOUT	Name	I2S_DOUT
	Number	
	Swap Id	-1
	Type	Output
	Net Name	I2S_DOUT
	Order	20
	Is No Connect	False

Object	Property Name	Property Value
I2S_DIN : P1/I2S_DIN	Name	I2S_DIN
	Number	
	Swap Id	-1
	Type	Input
	Net Name	I2S_DIN
	Order	16
	Is No Connect	False

Object	Property Name	Property Value
SPI3_MOSI : P1/SPI3_MOSI	Name	SPI3_MOSI
	Number	
	Swap Id	-1
	Type	Output
	Net Name	SPI3_MOSI
	Order	13
	Is No Connect	False

Object	Property Name	Property Value
SPI3_SCLK : P1/SPI3_SCLK	Name	SPI3_SCLK
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	SPI3_SCLK
	Order	19
	Is No Connect	False

Object	Property Name	Property Value
SPI3_nCS : P1/SPI3_nCS	Name	SPI3_nCS
	Number	
	Swap Id	-1
	Type	Output
	Net Name	SPI3_nCS
	Order	15
	Is No Connect	False

Object	Property Name	Property Value
nFAULT1 : P1/nFAULT1	Name	nFAULT1
	Number	
	Swap Id	-1
	Type	Input
	Net Name	nFAULT1
	Order	21
	Is No Connect	False

Object	Property Name	Property Value
nFAULT2 : P1/nFAULT2	Name	nFAULT2
	Number	
	Swap Id	-1
	Type	Input
	Net Name	nFAULT2
	Order	14
	Is No Connect	False

Object	Property Name	Property Value
SD_nDETECT : P1/SD_nDETECT	Name	SD_nDETECT
	Number	
	Swap Id	-1
	Type	Input
	Net Name	SD_nDETECT
	Order	22
	Is No Connect	False

Object	Property Name	Property Value
PWM4H : P1/PWM4H	Name	PWM4H
	Number	
	Swap Id	-1
	Type	Output
	Net Name	MKB1_PWM
	Order	27
	Is No Connect	False

Object	Property Name	Property Value
ASDA1 : P1/ASDA1	Name	ASDA1
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	ASDA1
	Order	23
	Is No Connect	False

Object	Property Name	Property Value
ASCL1 : P1/ASCL1	Name	ASCL1
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	ASCL1
	Order	25
	Is No Connect	False

Object	Property Name	Property Value
ASCL2 : P1/ASCL2	Name	ASCL2
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	ASCL2
	Order	26
	Is No Connect	False

Object	Property Name	Property Value
ASDA2 : P1/ASDA2	Name	ASDA2
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	ASDA2
	Order	24
	Is No Connect	False

Object	Property Name	Property Value
MKB1_RST : P1/MKB1_RST	Name	MKB1_RST
	Number	
	Swap Id	-1
	Type	Output
	Net Name	MKB1_RST
	Order	91
	Is No Connect	False

Object	Property Name	Property Value
MKB1_nCS : P1/MKB1_nCS	Name	MKB1_nCS
	Number	
	Swap Id	-1
	Type	Output
	Net Name	MKB1_nCS
	Order	92
	Is No Connect	False

Object	Property Name	Property Value
MKB1_INT : P1/MKB1_INT	Name	MKB1_INT
	Number	
	Swap Id	-1
	Type	Input
	Net Name	MKB1_INT
	Order	86
	Is No Connect	False

Object	Property Name	Property Value
SPI4_MISO : P1/SPI4_MISO	Name	SPI4_MISO
	Number	
	Swap Id	-1
	Type	Input
	Net Name	SPI4_MISO
	Order	30
	Is No Connect	False

Object	Property Name	Property Value
SPI4_SCLK : P1/SPI4_SCLK	Name	SPI4_SCLK
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	SPI4_SCLK
	Order	28
	Is No Connect	False

Object	Property Name	Property Value
SPI4_MOSI : P1/SPI4_MOSI	Name	SPI4_MOSI
	Number	
	Swap Id	-1
	Type	Output
	Net Name	SPI4_MOSI
	Order	32
	Is No Connect	False

Object	Property Name	Property Value
UART2_TX : P1/UART2_TX	Name	UART2_TX
	Number	
	Swap Id	-1
	Type	Output
	Net Name	UART2_TX
	Order	29
	Is No Connect	False

Object	Property Name	Property Value
UART2_RX : P1/UART2_RX	Name	UART2_RX
	Number	
	Swap Id	-1
	Type	Input
	Net Name	UART2_RX
	Order	31
	Is No Connect	False

Object	Property Name	Property Value
FT8XX_nPD : P1/FT8XX_nPD	Name	FT8XX_nPD
	Number	
	Swap Id	-1
	Type	Output
	Net Name	FT8XX_nPD
	Order	34
	Is No Connect	False

Object	Property Name	Property Value
FT8XX_nINT : P1/FT8XX_nINT	Name	FT8XX_nINT
	Number	
	Swap Id	-1
	Type	Input
	Net Name	FT8XX_nINT
	Order	37
	Is No Connect	False

Object	Property Name	Property Value
SPI1_nCS : P1/SPI1_nCS	Name	SPI1_nCS
	Number	
	Swap Id	-1
	Type	Output
	Net Name	SPI1_nCS
	Order	36
	Is No Connect	False

Object	Property Name	Property Value
SPI1_MISO : P1/SPI1_MISO	Name	SPI1_MISO
	Number	
	Swap Id	-1
	Type	Input
	Net Name	SPI1_MISO
	Order	38
	Is No Connect	False

Object	Property Name	Property Value
SPI1_SCLK : P1/SPI1_SCLK	Name	SPI1_SCLK
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	SPI1_SCLK
	Order	35
	Is No Connect	False

Object	Property Name	Property Value
SPI1_MOSI : P1/SPI1_MOSI	Name	SPI1_MOSI
	Number	
	Swap Id	-1
	Type	Output
	Net Name	SPI1_MOSI
	Order	33
	Is No Connect	False

Object	Property Name	Property Value
CAN_LBK : P1/CAN_LBK	Name	CAN_LBK
	Number	
	Swap Id	-1
	Type	Output
	Net Name	CAN_LBK
	Order	39
	Is No Connect	False

Object	Property Name	Property Value
CAN_TX : P1/CAN_TX	Name	CAN_TX
	Number	
	Swap Id	-1
	Type	Output
	Net Name	CAN_TX
	Order	40
	Is No Connect	False

Object	Property Name	Property Value
CAN_RX : P1/CAN_RX	Name	CAN_RX
	Number	
	Swap Id	-1
	Type	Input
	Net Name	CAN_RX
	Order	41
	Is No Connect	False

Object	Property Name	Property Value
UART1_RX : P1/UART1_RX	Name	UART1_RX
	Number	
	Swap Id	-1
	Type	Input
	Net Name	UART1_RX
	Order	71
	Is No Connect	False

Object	Property Name	Property Value
UART1_RTS : P1/UART1_RTS	Name	UART1_RTS
	Number	
	Swap Id	-1
	Type	Output
	Net Name	UART1_RTS
	Order	70
	Is No Connect	False

Object	Property Name	Property Value
PWM5H : P1/PWM5H	Name	PWM5H
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PWM5H
	Order	75
	Is No Connect	False

Object	Property Name	Property Value
PWM6L : P1/PWM6L	Name	PWM6L
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PWM6L
	Order	73
	Is No Connect	False

Object	Property Name	Property Value
PWM6H : P1/PWM6H	Name	PWM6H
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PWM6H
	Order	74
	Is No Connect	False

Object	Property Name	Property Value
AIN_AN12 : P1/AIN_AN12	Name	AIN_AN12
	Number	
	Swap Id	-1
	Type	Input
	Net Name	AIN_AN12
	Order	76
	Is No Connect	False

Object	Property Name	Property Value
AIN_AN13 : P1/AIN_AN13	Name	AIN_AN13
	Number	
	Swap Id	-1
	Type	Input
	Net Name	AIN_AN13
	Order	77
	Is No Connect	False

Object	Property Name	Property Value
AIN_AN0 : P1/AIN_AN0	Name	AIN_AN0
	Number	
	Swap Id	-1
	Type	Input
	Net Name	AIN_AN0
	Order	79
	Is No Connect	False

Object	Property Name	Property Value
AIN_AN1 : P1/AIN_AN1	Name	AIN_AN1
	Number	
	Swap Id	-1
	Type	Input
	Net Name	AIN_AN1
	Order	78
	Is No Connect	False

Object	Property Name	Property Value
AIN_AN14 : P1/AIN_AN14	Name	AIN_AN14
	Number	
	Swap Id	-1
	Type	Input
	Net Name	AIN_AN14
	Order	80
	Is No Connect	False

Object	Property Name	Property Value
AIN_AN15 : P1/AIN_AN15	Name	AIN_AN15
	Number	
	Swap Id	-1
	Type	Input
	Net Name	AIN_AN15
	Order	81
	Is No Connect	False

Object	Property Name	Property Value
FLASH_nCS : P1/FLASH_nCS	Name	FLASH_nCS
	Number	
	Swap Id	-1
	Type	Output
	Net Name	FLASH_nCS
	Order	82
	Is No Connect	False

Object	Property Name	Property Value
FLASH_nWP : P1/FLASH_nWP	Name	FLASH_nWP
	Number	
	Swap Id	-1
	Type	Output
	Net Name	FLASH_nWP
	Order	85
	Is No Connect	False

Object	Property Name	Property Value
FLASH_nHOLD : P1/FLASH_nHOLD	Name	FLASH_nHOLD
	Number	
	Swap Id	-1
	Type	Output
	Net Name	FLASH_nHOLD
	Order	84
	Is No Connect	False

Object	Property Name	Property Value
PWM5L : P1/PWM5L	Name	PWM5L
	Number	
	Swap Id	-1
	Type	Output
	Net Name	MKB2_PWM
	Order	87
	Is No Connect	False

Object	Property Name	Property Value
MKB1_AN20 : P1/MKB1_AN20	Name	MKB1_AN20
	Number	
	Swap Id	-1
	Type	Input
	Net Name	MKB1_AIN
	Order	94
	Is No Connect	False

Object	Property Name	Property Value
MKB2_AN21 : P1/MKB2_AN21	Name	MKB2_AN21
	Number	
	Swap Id	-1
	Type	Input
	Net Name	MKB2_AIN
	Order	89
	Is No Connect	False

Object	Property Name	Property Value
MKB2_INT : P1/MKB2_INT	Name	MKB2_INT
	Number	
	Swap Id	-1
	Type	Input
	Net Name	MKB2_INT
	Order	93
	Is No Connect	False

Object	Property Name	Property Value
MKB2_RST : P1/MKB2_RST	Name	MKB2_RST
	Number	
	Swap Id	-1
	Type	Output
	Net Name	MKB2_RST
	Order	88
	Is No Connect	False

Object	Property Name	Property Value
MKB2_nCS : P1/MKB2_nCS	Name	MKB2_nCS
	Number	
	Swap Id	-1
	Type	Output
	Net Name	MKB2_nCS
	Order	90
	Is No Connect	False

Object	Property Name	Property Value
SPI2_SCLK : P1/SPI2_SCLK	Name	SPI2_SCLK
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	SPI2_SCLK
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
SPI2_MOSI : P1/SPI2_MOSI	Name	SPI2_MOSI
	Number	
	Swap Id	-1
	Type	Output
	Net Name	SPI2_MOSI
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
UART1_TX : P1/UART1_TX	Name	UART1_TX
	Number	
	Swap Id	-1
	Type	Output
	Net Name	UART1_TX
	Order	69
	Is No Connect	False

Object	Property Name	Property Value
I2S_COFS : P1/I2S_COFS	Name	I2S_COFS
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	I2S_COFS
	Order	18
	Is No Connect	False

Object	Property Name	Property Value
ASCL2 : P1/ASCL2	Name	ASCL2
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	ASCL2
	Order	26
	Is No Connect	False

Object	Property Name	Property Value
ASDA2 : P1/ASDA2	Name	ASDA2
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	ASDA2
	Order	24
	Is No Connect	False

Object	Property Name	Property Value
ASCL1 : P1/ASCL1	Name	ASCL1
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	ASCL1
	Order	25
	Is No Connect	False

Object	Property Name	Property Value
ASDA1 : P1/ASDA1	Name	ASDA1
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	ASDA1
	Order	23
	Is No Connect	False

Object	Property Name	Property Value
PMP_GPIO : P1/PMP_GPIO	Name	PMP_GPIO
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMP_GPIO
	Order	95
	Is No Connect	False

Object	Property Name	Property Value
RTCC_ALARM : P1/RTCC_ALARM	Name	RTCC_ALARM
	Number	
	Swap Id	-1
	Type	Output
	Net Name	BUZZER
	Order	96
	Is No Connect	False

Object	Property Name	Property Value
PMD0 : P1/PMD0	Name	PMD0
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMD0
	Order	44
	Is No Connect	False

Object	Property Name	Property Value
PMD1 : P1/PMD1	Name	PMD1
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMD1
	Order	45
	Is No Connect	False

Object	Property Name	Property Value
PMD2 : P1/PMD2	Name	PMD2
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMD2
	Order	46
	Is No Connect	False

Object	Property Name	Property Value
PMD3 : P1/PMD3	Name	PMD3
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMD3
	Order	47
	Is No Connect	False

Object	Property Name	Property Value
PMD4 : P1/PMD4	Name	PMD4
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMD4
	Order	48
	Is No Connect	False

Object	Property Name	Property Value
PMD5 : P1/PMD5	Name	PMD5
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMD5
	Order	49
	Is No Connect	False

Object	Property Name	Property Value
PMD6 : P1/PMD6	Name	PMD6
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMD6
	Order	51
	Is No Connect	False

Object	Property Name	Property Value
PMD7 : P1/PMD7	Name	PMD7
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMD7
	Order	43
	Is No Connect	False

Object	Property Name	Property Value
PMA0 : P1/PMA0	Name	PMA0
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PMA0
	Order	66
	Is No Connect	False

Object	Property Name	Property Value
PMA1 : P1/PMA1	Name	PMA1
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PMA1
	Order	65
	Is No Connect	False

Object	Property Name	Property Value
PMA2 : P1/PMA2	Name	PMA2
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PMA2
	Order	64
	Is No Connect	False

Object	Property Name	Property Value
PMA3 : P1/PMA3	Name	PMA3
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PMA3
	Order	63
	Is No Connect	False

Object	Property Name	Property Value
PMA4 : P1/PMA4	Name	PMA4
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PMA4
	Order	54
	Is No Connect	False

Object	Property Name	Property Value
PMA5 : P1/PMA5	Name	PMA5
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PMA5
	Order	52
	Is No Connect	False

Object	Property Name	Property Value
PMA6 : P1/PMA6	Name	PMA6
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PMA6
	Order	42
	Is No Connect	False

Object	Property Name	Property Value
PMA7 : P1/PMA7	Name	PMA7
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PMA7
	Order	68
	Is No Connect	False

Object	Property Name	Property Value
PMA8 : P1/PMA8	Name	PMA8
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PMA8
	Order	57
	Is No Connect	False

Object	Property Name	Property Value
PMA9 : P1/PMA9	Name	PMA9
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PMA9
	Order	55
	Is No Connect	False

Object	Property Name	Property Value
PMA10 : P1/PMA10	Name	PMA10
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PMA10
	Order	60
	Is No Connect	False

Object	Property Name	Property Value
PMA11 : P1/PMA11	Name	PMA11
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PMA11
	Order	62
	Is No Connect	False

Object	Property Name	Property Value
PMA12 : P1/PMA12	Name	PMA12
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PMA12
	Order	58
	Is No Connect	False

Object	Property Name	Property Value
PMA13 : P1/PMA13	Name	PMA13
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PMA13
	Order	59
	Is No Connect	False

Object	Property Name	Property Value
PMCS1 : P1/PMCS1	Name	PMCS1
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PMCS1
	Order	53
	Is No Connect	False

Object	Property Name	Property Value
PMCS2 : P1/PMCS2	Name	PMCS2
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PMCS2
	Order	67
	Is No Connect	False

Object	Property Name	Property Value
PMBE : P1/PMBE	Name	PMBE
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PMBE
	Order	61
	Is No Connect	False

Object	Property Name	Property Value
PMWR : P1/PMWR	Name	PMWR
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PMWR
	Order	50
	Is No Connect	False

Object	Property Name	Property Value
PMRD : P1/PMRD	Name	PMRD
	Number	
	Swap Id	-1
	Type	Output
	Net Name	PMRD
	Order	56
	Is No Connect	False

Object	Property Name	Property Value
LED_1 : P1/LED_1	Name	LED_1
	Number	
	Swap Id	-1
	Type	Output
	Net Name	LED_1
	Order	97
	Is No Connect	False

Object	Property Name	Property Value
LED_2 : P1/LED_2	Name	LED_2
	Number	
	Swap Id	-1
	Type	Output
	Net Name	LED_2
	Order	101
	Is No Connect	False

Object	Property Name	Property Value
LED_3 : P1/LED_3	Name	LED_3
	Number	
	Swap Id	-1
	Type	Output
	Net Name	LED_3
	Order	100
	Is No Connect	False

Object	Property Name	Property Value
LED_4 : P1/LED_4	Name	LED_4
	Number	
	Swap Id	-1
	Type	Output
	Net Name	LED_4
	Order	107
	Is No Connect	False

Object	Property Name	Property Value
ROT_ENC_SW : P1/ROT_ENC_SW	Name	ROT_ENC_SW
	Number	
	Swap Id	-1
	Type	Input
	Net Name	ROT_ENC_SW
	Order	102
	Is No Connect	False

Object	Property Name	Property Value
ROT_ENC_A : P1/ROT_ENC_A	Name	ROT_ENC_A
	Number	
	Swap Id	-1
	Type	Input
	Net Name	ROT_ENC_A
	Order	98
	Is No Connect	False

Object	Property Name	Property Value
ROT_ENC_B : P1/ROT_ENC_B	Name	ROT_ENC_B
	Number	
	Swap Id	-1
	Type	Input
	Net Name	ROT_ENC_B
	Order	99
	Is No Connect	False

Object	Property Name	Property Value
AIN_AN2_POT : P1/AIN_AN2_POT	Name	AIN_AN2_POT
	Number	
	Swap Id	-1
	Type	Input
	Net Name	AIN_AN2_POT
	Order	103
	Is No Connect	False

Object	Property Name	Property Value
SWPWM_RGB_R : P1/SWPWM_RGB_R	Name	SWPWM_RGB_R
	Number	
	Swap Id	-1
	Type	Output
	Net Name	SWPWM_RGB_R
	Order	105
	Is No Connect	False

Object	Property Name	Property Value
SWPWM_RGB_G : P1/SWPWM_RGB_G	Name	SWPWM_RGB_G
	Number	
	Swap Id	-1
	Type	Output
	Net Name	SWPWM_RGB_G
	Order	106
	Is No Connect	False

Object	Property Name	Property Value
SWPWM_RGB_B : P1/SWPWM_RGB_B	Name	SWPWM_RGB_B
	Number	
	Swap Id	-1
	Type	Output
	Net Name	SWPWM_RGB_B
	Order	104
	Is No Connect	False

Object	Property Name	Property Value
BTN_2 : P1/BTN_2	Name	BTN_2
	Number	
	Swap Id	-1
	Type	Input
	Net Name	BTN_2
	Order	109
	Is No Connect	False

Object	Property Name	Property Value
BTN_3 : P1/BTN_3	Name	BTN_3
	Number	
	Swap Id	-1
	Type	Input
	Net Name	BTN_3
	Order	110
	Is No Connect	False

Object	Property Name	Property Value
BTN_4 : P1/BTN_4	Name	BTN_4
	Number	
	Swap Id	-1
	Type	Input
	Net Name	BTN_4
	Order	108
	Is No Connect	False

Object	Property Name	Property Value
UART3_TX : P1/UART3_TX	Name	UART3_TX
	Number	
	Swap Id	-1
	Type	Output
	Net Name	UART3_TX
	Order	112
	Is No Connect	False

Object	Property Name	Property Value
BTN_1 : P1/BTN_1	Name	BTN_1
	Number	
	Swap Id	-1
	Type	Input
	Net Name	BTN_1
	Order	111
	Is No Connect	False

Object	Property Name	Property Value
UART3_RX : P1/UART3_RX	Name	UART3_RX
	Number	
	Swap Id	-1
	Type	Input
	Net Name	UART3_RX
	Order	113
	Is No Connect	False

Object	Property Name	Property Value
UART1_CTS : P1/UART1_CTS	Name	UART1_CTS
	Number	
	Swap Id	-1
	Type	Input
	Net Name	UART1_CTS
	Order	72
	Is No Connect	False

Object	Property Name	Property Value
TitleBlockIntellitrol : P1/TitleBlockIntellitrol	Schematic Page Count	1
	Schematic Page Number	1
	Page Number	11
	Page Count	21
	Path Name	P1/TitleBlockIntellitrol
	Schematic Path	/P1
	ID	8894
	Doc	
	RevCode	0B
	Cage Code	
	Title	MCU I/O mapping
	OrgName	Jean-Francois Bilodeau, B.E.Eng
	OrgAddr1	CPI/CEP #6022173
	OrgAddr2	925 Chemin ste-foy apt4, QC, CANADA
	OrgAddr3	
	OrgAddr4	
	Name	TitleBlockIntellitrol
	Design Name	DSPEAK-V1_00-0B
	Design File Name	C:\USERS\JEANF\Desktop\GIT\DSPEAK\HARDWARE\REV1_00-0B\CAPTURE
	Design Create Date	Friday, November 13, 2020
	Design Modify Date	Thursday, March 25, 2021
	Design Create Time	18:59:24
	Design Modify Time	19:51:15
	Schematic Name	MCU I/Os
	Schematic Create Date	Saturday, November 14, 2020
	Schematic Modify Date	Thursday, March 25, 2021
	Schematic Create Time	20:40:08
	Schematic Modify Time	18:37:30
	Page Size	B
	Page Create Date	Saturday, November 14, 2020
	Page Modify Date	Thursday, March 25, 2021
	Page Create Time	20:40:07
	Page Modify Time	18:37:29
	Color	Default
	Source Library	C:\USERS\JEANF\GOOGLE DRIVE\ORCAD16LIB\PIECE\PART.OLB
	Source Symbol	TitleBlockIntellitrol
	Page Name	MCU I/Os

Object	Property Name	Property Value
INS1098870 : P1/R84	Name	INS1098870
	ID	6346
	Reference	R84
	Designator	
	Part Reference	R84
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,rpn:ERJ-2RKF33R2X}
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RKF33R2X
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	0402_res_jpc

Object	Property Name	Property Value
1 : P1/R84/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	PMA12
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P1/R84/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N835370
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS843139 : P1/R79	Name	INS843139
	ID	5583
	Reference	R79
	Designator	
	Part Reference	R79
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,rpn:ERJ-0402_P33.2LCT-ND}
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RKF33R2X
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	0402_res_ipc

Object	Property Name	Property Value
1 : P1/R79/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	UART2_TX
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P1/R79/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N843121
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1122302 : P1/RN3	Name	INS1122302
	ID	8500
	Reference	RN3
	Designator	
	Part Reference	RN3
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,mpn:ERJ-2RKF33R2X}
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RKF33R2X
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	repack_4-0804

Object	Property Name	Property Value
1 : P1/RN3/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	PMA0
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P1/RN3/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	PMA1
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
3 : P1/RN3/3	Name	3
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	PMA2
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
4 : P1/RN3/4	Name	4
	Number	4
	Swap Id	-1
	Type	Passive
	Net Name	PMA3
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
8 : P1/RN3/8	Name	8
	Number	8
	Swap Id	-1
	Type	Passive
	Net Name	N836098
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
7 : P1/RN3/7	Name	7
	Number	7
	Swap Id	-1
	Type	Passive
	Net Name	N836108
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
6 : P1/RN3/6	Name	6
	Number	6
	Swap Id	-1
	Type	Passive
	Net Name	N836118
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
5 : P1/RN3/5	Name	5
	Number	5
	Swap Id	-1
	Type	Passive
	Net Name	N836122
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
INS841457 : P1/R82	Name	INS841457
	ID	5509
	Reference	R82
	Designator	
	Part Reference	R82
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,mpn:ERJ-2RKF33R2X}
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RKF33R2X
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	0402_res_ipc

Object	Property Name	Property Value
1 : P1/R82/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	SPI2_SCLK
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P1/R82/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N841543
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1117044 : P1/R88	Name	INS1117044
	ID	7918
	Reference	R88
	Designator	
	Part Reference	R88
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,rpn:ERJ-2RKF33R2X}
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RKF33R2X
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	0402_res_ipc

Object	Property Name	Property Value
1 : P1/R88/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	PMBE
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P1/R88/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N1117172
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1117062 : P1/R89	Name	INS1117062
	ID	7915
	Reference	R89
	Designator	
	Part Reference	R89
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,mpn:ERJ-2RK
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RK
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	0402_res_ipc

Object	Property Name	Property Value
1 : P1/R89/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	PMWR
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P1/R89/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N1117153
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1099671 : P1/R90	Name	INS1099671
	ID	6406
	Reference	R90
	Designator	
	Part Reference	R90
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,mpn:ERJ-2RK
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RK
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	0402_res_ipc

Object	Property Name	Property Value
1 : P1/R90/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	PMRD
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P1/R90/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N835588
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS843074 : P1/R76	Name	INS843074
	ID	5578
	Reference	R76
	Designator	
	Part Reference	R76
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,rpn:ERJ-0402_P33.2LCT-ND}
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RKF33R2X
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	0402_res_ipc

Object	Property Name	Property Value
1 : P1/R76/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	UART1_TX
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P1/R76/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N838411
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS838039 : P1/U18	Name	INS838039
	ID	3259
	Reference	U18
	Designator	G
	Part Reference	U18G
	Value	dsPIC33EP512MU814
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:DSPIC33EP512MU814-I/PH-ND,mfr:Microchip Technology,mpn:DSPIC33EP512MU814-I/PH-ND}
	Digi-Key PN	DSPIC33EP512MU814-I/PH-ND
	Description	IC MCU 16BIT 512KB FLASH 144TQFP
	Manufacturer PN	DSPIC33EP512MU814-I/PH
	Manufacturer	Microchip Technology
	PCB Footprint	tqfp144_16x16mm
	Distributor PN	
	Distributor	
	SWAP_INFO	(S1+S2+S3+S4+S5+S6+S7+S8+S9+S10+S11+S12)
	SPLIT_INST	TRUE

Object	Property Name	Property Value
RG0 : P1/U18/RG0	Name	RG0
	Number	129
	Swap Id	-1
	Type	Bidirectional
	Net Name	FLASH_nCS
	Order	0
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RG1 : P1/U18/RG1	Name	RG1
	Number	128
	Swap Id	-1
	Type	Bidirectional
	Net Name	UART2_RX
	Order	1
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RG2/D+ : P1/U18/RG2/D+	Name	RG2/D+
	Number	80
	Swap Id	-1
	Type	Bidirectional
	Net Name	USB_D+
	Order	2
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RG3/D- : P1/U18/RG3/D-	Name	RG3/D-
	Number	79
	Swap Id	-1
	Type	Bidirectional
	Net Name	USB_D-
	Order	3
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RG6 : P1/U18/RG6	Name	RG6
	Number	16
	Swap Id	-1
	Type	Bidirectional
	Net Name	N841543
	Order	4
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RG7 : P1/U18/RG7	Name	RG7
	Number	17
	Swap Id	-1
	Type	Bidirectional
	Net Name	SPI2_MISO
	Order	5
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RG8 : P1/U18/RG8	Name	RG8
	Number	18
	Swap Id	-1
	Type	Bidirectional
	Net Name	N841561
	Order	6
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RG9 : P1/U18/RG9	Name	RG9
	Number	20
	Swap Id	-1
	Type	Bidirectional
	Net Name	SD_nCS
	Order	7
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RG12 : P1/U18/RG12	Name	RG12
	Number	139
	Swap Id	-1
	Type	Bidirectional
	Net Name	QEA2
	Order	8
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RG13 : P1/U18/RG13	Name	RG13
	Number	140
	Swap Id	-1
	Type	Bidirectional
	Net Name	QEB2
	Order	9
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RG14 : P1/U18/RG14	Name	RG14
	Number	138
	Swap Id	-1
	Type	Bidirectional
	Net Name	nFAULT1
	Order	10
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RG15 : P1/U18/RG15	Name	RG15
	Number	1
	Swap Id	-1
	Type	Bidirectional
	Net Name	CAN_LBK
	Order	11
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
INS838235 : P1/U18	Name	INS838235
	ID	3289
	Reference	U18
	Designator	J
	Part Reference	U18J
	Value	dsPIC33EP512MU814
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:DSPIC33EP512MU814-I/PH-ND,mfr:Microchip Technology,mpn:DSPIC33EP512MU814-I/PH-ND}
	Digi-Key PN	DSPIC33EP512MU814-I/PH-ND
	Description	IC MCU 16BIT 512KB FLASH 144TQFP
	Manufacturer PN	DSPIC33EP512MU814-I/PH
	Manufacturer	Microchip Technology
	PCB Footprint	tqfp144_16x16mm
	Distributor PN	
	Distributor	
	SWAP_INFO	(S1+S2+S3+S4+S5+S6+S7+S8+S9+S10+S11+S12)
	SPLIT_INST	TRUE

Object	Property Name	Property Value
RJ0 : P1/U18/RJ0	Name	RJ0
	Number	115
	Swap Id	-1
	Type	Bidirectional
	Net Name	N836098
	Order	0
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RJ1 : P1/U18/RJ1	Name	RJ1
	Number	116
	Swap Id	-1
	Type	Bidirectional
	Net Name	N836108
	Order	1
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RJ2 : P1/U18/RJ2	Name	RJ2
	Number	117
	Swap Id	-1
	Type	Bidirectional
	Net Name	N836118
	Order	2
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RJ3 : P1/U18/RJ3	Name	RJ3
	Number	118
	Swap Id	-1
	Type	Bidirectional
	Net Name	N836122
	Order	3
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RJ4 : P1/U18/RJ4	Name	RJ4
	Number	132
	Swap Id	-1
	Type	Bidirectional
	Net Name	N836194
	Order	4
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RJ5 : P1/U18/RJ5	Name	RJ5
	Number	133
	Swap Id	-1
	Type	Bidirectional
	Net Name	N836204
	Order	5
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RJ6 : P1/U18/RJ6	Name	RJ6
	Number	134
	Swap Id	-1
	Type	Bidirectional
	Net Name	N836214
	Order	6
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RJ7 : P1/U18/RJ7	Name	RJ7
	Number	135
	Swap Id	-1
	Type	Bidirectional
	Net Name	N836218
	Order	7
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RJ8 : P1/U18/RJ8	Name	RJ8
	Number	6
	Swap Id	-1
	Type	Bidirectional
	Net Name	N835215
	Order	8
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RJ9 : P1/U18/RJ9	Name	RJ9
	Number	7
	Swap Id	-1
	Type	Bidirectional
	Net Name	N835239
	Order	9
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RJ10 : P1/U18/RJ10	Name	RJ10
	Number	8
	Swap Id	-1
	Type	Bidirectional
	Net Name	N835264
	Order	10
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RJ11 : P1/U18/RJ11	Name	RJ11
	Number	9
	Swap Id	-1
	Type	Bidirectional
	Net Name	N835290
	Order	11
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RJ12 : P1/U18/RJ12	Name	RJ12
	Number	14
	Swap Id	-1
	Type	Bidirectional
	Net Name	N835370
	Order	12
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RJ13 : P1/U18/RJ13	Name	RJ13
	Number	15
	Swap Id	-1
	Type	Bidirectional
	Net Name	N835374
	Order	13
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RJ14 : P1/U18/RJ14	Name	RJ14
	Number	21
	Swap Id	-1
	Type	Bidirectional
	Net Name	SD_nDETECT
	Order	14
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RJ15 : P1/U18/RJ15	Name	RJ15
	Number	22
	Swap Id	-1
	Type	Bidirectional
	Net Name	FLASH_nWP
	Order	15
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
INS837580 : P1/U18	Name	INS837580
	ID	3165
	Reference	U18
	Designator	C
	Part Reference	U18C
	Value	dsPIC33EP512MU814
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:DSPIC33EP512MU814-I/PH-ND,mfr:Microchip Technology,mpn:DSPIC33EP512MU814-I/PH-ND}
	Digi-Key PN	DSPIC33EP512MU814-I/PH-ND
	Description	IC MCU 16BIT 512KB FLASH 144TQFP
	Manufacturer PN	DSPIC33EP512MU814-I/PH
	Manufacturer	Microchip Technology
	PCB Footprint	tqfp144_16x16mm
	Distributor PN	
	Distributor	
	SWAP_INFO	(S1+S2+S3+S4+S5+S6+S7+S8+S9+S10+S11+S12)
	SPLIT_INST	TRUE

Object	Property Name	Property Value
RC1 : P1/U18/RC1	Name	RC1
	Number	10
	Swap Id	-1
	Type	Bidirectional
	Net Name	PWM5L
	Order	0
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RC2 : P1/U18/RC2	Name	RC2
	Number	11
	Swap Id	-1
	Type	Bidirectional
	Net Name	PWM5H
	Order	1
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RC3 : P1/U18/RC3	Name	RC3
	Number	12
	Swap Id	-1
	Type	Bidirectional
	Net Name	PWM6L
	Order	2
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RC4 : P1/U18/RC4	Name	RC4
	Number	13
	Swap Id	-1
	Type	Bidirectional
	Net Name	PWM6H
	Order	3
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
INS1128386 : P1/TP44	Name	INS1128386
	ID	8641
	Reference	TP44
	Designator	
	Part Reference	TP44
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P1/TP44/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	ASDA2
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS838134 : P1/U18	Name	INS838134
	ID	3272
	Reference	U18
	Designator	H
	Part Reference	U18H
	Value	dsPIC33EP512MU814
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:DSPIC33EP512MU814-I/PH-ND,mfr:Microchip Technology,mpr:
	Digi-Key PN	DSPIC33EP512MU814-I/PH-ND
	Description	IC MCU 16BIT 512KB FLASH 144TQFP
	Manufacturer PN	DSPIC33EP512MU814-I/PH
	Manufacturer	Microchip Technology
	PCB Footprint	tqfp144_16x16mm
	Distributor PN	
	Distributor	
	SWAP_INFO	(S1+S2+S3+S4+S5+S6+S7+S8+S9+S10+S11+S12)
	SPLIT_INST	TRUE

Object	Property Name	Property Value
RH0 : P1/U18/RH0	Name	RH0
	Number	43
	Swap Id	-1
	Type	Bidirectional
	Net Name	N835448
	Order	0
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RH1 : P1/U18/RH1	Name	RH1
	Number	44
	Swap Id	-1
	Type	Bidirectional
	Net Name	N835458
	Order	1
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RH2 : P1/U18/RH2	Name	RH2
	Number	45
	Swap Id	-1
	Type	Bidirectional
	Net Name	N835468
	Order	2
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RH3 : P1/U18/RH3	Name	RH3
	Number	46
	Swap Id	-1
	Type	Bidirectional
	Net Name	N835472
	Order	3
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RH4 : P1/U18/RH4	Name	RH4
	Number	65
	Swap Id	-1
	Type	Bidirectional
	Net Name	N835695
	Order	4
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RH5 : P1/U18/RH5	Name	RH5
	Number	66
	Swap Id	-1
	Type	Bidirectional
	Net Name	N835705
	Order	5
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RH6 : P1/U18/RH6	Name	RH6
	Number	67
	Swap Id	-1
	Type	Bidirectional
	Net Name	N835715
	Order	6
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RH7 : P1/U18/RH7	Name	RH7
	Number	68
	Swap Id	-1
	Type	Bidirectional
	Net Name	N835719
	Order	7
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RH8 : P1/U18/RH8	Name	RH8
	Number	81
	Swap Id	-1
	Type	Bidirectional
	Net Name	LED_1
	Order	8
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RH9 : P1/U18/RH9	Name	RH9
	Number	82
	Swap Id	-1
	Type	Bidirectional
	Net Name	LED_2
	Order	9
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RH10 : P1/U18/RH10	Name	RH10
	Number	83
	Swap Id	-1
	Type	Bidirectional
	Net Name	LED_3
	Order	10
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RH11 : P1/U18/RH11	Name	RH11
	Number	84
	Swap Id	-1
	Type	Bidirectional
	Net Name	LED_4
	Order	11
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RH12 : P1/U18/RH12	Name	RH12
	Number	101
	Swap Id	-1
	Type	Bidirectional
	Net Name	MKB2_RST
	Order	12
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RH13 : P1/U18/RH13	Name	RH13
	Number	102
	Swap Id	-1
	Type	Bidirectional
	Net Name	MKB2_nCS
	Order	13
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RH14 : P1/U18/RH14	Name	RH14
	Number	103
	Swap Id	-1
	Type	Bidirectional
	Net Name	MKB1_RST
	Order	14
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RH15 : P1/U18/RH15	Name	RH15
	Number	104
	Swap Id	-1
	Type	Bidirectional
	Net Name	MKB1_nCS
	Order	15
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
INS1116928 : P1/R86	Name	INS1116928
	ID	7908
	Reference	R86
	Designator	
	Part Reference	R86
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,mpn:ERJ-2RKF33R2X}
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RKF33R2X
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	0402_res_ipc

Object	Property Name	Property Value
1 : P1/R86/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	PMCS1
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P1/R86/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N1117112
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1125927 : P1/RN1	Name	INS1125927
	ID	8544
	Reference	RN1
	Designator	
	Part Reference	RN1
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,mpn:ERJ-2RKF33R2X}
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RKF33R2X
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	respack_4-0804

Object	Property Name	Property Value
1 : P1/RN1/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N835448
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P1/RN1/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N835458
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
3 : P1/RN1/3	Name	3
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	N835468
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
4 : P1/RN1/4	Name	4
	Number	4
	Swap Id	-1
	Type	Passive
	Net Name	N835472
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
8 : P1/RN1/8	Name	8
	Number	8
	Swap Id	-1
	Type	Passive
	Net Name	PMD0
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
7 : P1/RN1/7	Name	7
	Number	7
	Swap Id	-1
	Type	Passive
	Net Name	PMD1
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
6 : P1/RN1/6	Name	6
	Number	6
	Swap Id	-1
	Type	Passive
	Net Name	PMD2
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
5 : P1/RN1/5	Name	5
	Number	5
	Swap Id	-1
	Type	Passive
	Net Name	PMD3
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
INS1126029 : P1/RN2	Name	INS1126029
	ID	8553
	Reference	RN2
	Designator	
	Part Reference	RN2
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,rpn:ERJ-2RKF33R2X}
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RKF33R2X
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	repack_4-0804

Object	Property Name	Property Value
1 : P1/RN2/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N835695
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P1/RN2/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N835705
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
3 : P1/RN2/3	Name	3
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	N835715
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
4 : P1/RN2/4	Name	4
	Number	4
	Swap Id	-1
	Type	Passive
	Net Name	N835719
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
8 : P1/RN2/8	Name	8
	Number	8
	Swap Id	-1
	Type	Passive
	Net Name	PMD4
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
7 : P1/RN2/7	Name	7
	Number	7
	Swap Id	-1
	Type	Passive
	Net Name	PMD5
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
6 : P1/RN2/6	Name	6
	Number	6
	Swap Id	-1
	Type	Passive
	Net Name	PMD6
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
5 : P1/RN2/5	Name	5
	Number	5
	Swap Id	-1
	Type	Passive
	Net Name	PMD7
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
INS837676 : P1/U18	Name	INS837676
	ID	3170
	Reference	U18
	Designator	D
	Part Reference	U18D
	Value	dsPIC33EP512MU814
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:DSPIC33EP512MU814-I/PH-ND,mfr:Microchip Technology,mpn:DSPIC33EP512MU814-I/PH-ND}
	Digi-Key PN	DSPIC33EP512MU814-I/PH-ND
	Description	IC MCU 16BIT 512KB FLASH 144TQFP
	Manufacturer PN	DSPIC33EP512MU814-I/PH
	Manufacturer	Microchip Technology
	PCB Footprint	tqfp144_16x16mm
	Distributor PN	
	Distributor	
	SWAP_INFO	(S1+S2+S3+S4+S5+S6+S7+S8+S9+S10+S11+S12)
	SPLIT_INST	TRUE

Object	Property Name	Property Value
RD0 : P1/U18/RD0	Name	RD0
	Number	105
	Swap Id	-1
	Type	Bidirectional
	Net Name	MKB1_INT
	Order	0
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RD1 : P1/U18/RD1	Name	RD1
	Number	109
	Swap Id	-1
	Type	Bidirectional
	Net Name	N832416
	Order	1
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RD2 : P1/U18/RD2	Name	RD2
	Number	110
	Swap Id	-1
	Type	Bidirectional
	Net Name	N843655
	Order	2
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RD3 : P1/U18/RD3	Name	RD3
	Number	111
	Swap Id	-1
	Type	Bidirectional
	Net Name	N843340
	Order	3
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RD4 : P1/U18/RD4	Name	RD4
	Number	119
	Swap Id	-1
	Type	Bidirectional
	Net Name	N841340
	Order	4
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RD5 : P1/U18/RD5	Name	RD5
	Number	120
	Swap Id	-1
	Type	Bidirectional
	Net Name	N841249
	Order	5
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RD6 : P1/U18/RD6	Name	RD6
	Number	121
	Swap Id	-1
	Type	Bidirectional
	Net Name	SPI3_nCS
	Order	6
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RD7 : P1/U18/RD7	Name	RD7
	Number	122
	Swap Id	-1
	Type	Bidirectional
	Net Name	N841348
	Order	7
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RD8 : P1/U18/RD8	Name	RD8
	Number	97
	Swap Id	-1
	Type	Bidirectional
	Net Name	RTCC_ALARM
	Order	8
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RD9 : P1/U18/RD9	Name	RD9
	Number	98
	Swap Id	-1
	Type	Bidirectional
	Net Name	ASDA1
	Order	9
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RD10 : P1/U18/RD10	Name	RD10
	Number	99
	Swap Id	-1
	Type	Bidirectional
	Net Name	ASCL1
	Order	10
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RD11 : P1/U18/RD11	Name	RD11
	Number	100
	Swap Id	-1
	Type	Bidirectional
	Net Name	MKB2_INT
	Order	11
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RD12 : P1/U18/RD12	Name	RD12
	Number	113
	Swap Id	-1
	Type	Bidirectional
	Net Name	I2S_DIN
	Order	12
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RD13 : P1/U18/RD13	Name	RD13
	Number	114
	Swap Id	-1
	Type	Bidirectional
	Net Name	SPI4_MISO
	Order	13
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RD14 : P1/U18/RD14	Name	RD14
	Number	69
	Swap Id	-1
	Type	Bidirectional
	Net Name	UART1_RX
	Order	14
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RD15 : P1/U18/RD15	Name	RD15
	Number	70
	Swap Id	-1
	Type	Bidirectional
	Net Name	N838411
	Order	15
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
INS837431 : P1/U18	Name	INS837431
	ID	3138
	Reference	U18
	Designator	A
	Part Reference	U18A
	Value	dsPIC33EP512MU814
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:DSPIC33EP512MU814-I/PH-ND,mfr:Microchip Technology,mpn:DSPIC33EP512MU814-I/PH-ND}
	Digi-Key PN	DSPIC33EP512MU814-I/PH-ND
	Description	IC MCU 16BIT 512KB FLASH 144TQFP
	Manufacturer PN	DSPIC33EP512MU814-I/PH
	Manufacturer	Microchip Technology
	PCB Footprint	tqfp144_16x16mm
	Distributor PN	
	Distributor	
	SWAP_INFO	(S1+S2+S3+S4+S5+S6+S7+S8+S9+S10+S11+S12)
	SPLIT_INST	TRUE

Object	Property Name	Property Value
RA0 : P1/U18/RA0	Name	RA0
	Number	25
	Swap Id	-1
	Type	Bidirectional
	Net Name	FLASH_nHOLD
	Order	0
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RA1 : P1/U18/RA1	Name	RA1
	Number	56
	Swap Id	-1
	Type	Bidirectional
	Net Name	SPI1_MISO
	Order	1
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RA2 : P1/U18/RA2	Name	RA2
	Number	85
	Swap Id	-1
	Type	Bidirectional
	Net Name	ASCL2
	Order	2
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RA3 : P1/U18/RA3	Name	RA3
	Number	86
	Swap Id	-1
	Type	Bidirectional
	Net Name	ASDA2
	Order	3
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RA4 : P1/U18/RA4	Name	RA4
	Number	87
	Swap Id	-1
	Type	Bidirectional
	Net Name	BTN_4
	Order	4
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RA5 : P1/U18/RA5	Name	RA5
	Number	88
	Swap Id	-1
	Type	Bidirectional
	Net Name	ROT_ENC_SW
	Order	5
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RA6 : P1/U18/RA6	Name	RA6
	Number	130
	Swap Id	-1
	Type	Bidirectional
	Net Name	QEA1
	Order	6
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RA7 : P1/U18/RA7	Name	RA7
	Number	131
	Swap Id	-1
	Type	Bidirectional
	Net Name	QEB1
	Order	7
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RA14 : P1/U18/RA14	Name	RA14
	Number	95
	Swap Id	-1
	Type	Bidirectional
	Net Name	ROT_ENC_A
	Order	8
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RA15 : P1/U18/RA15	Name	RA15
	Number	96
	Swap Id	-1
	Type	Bidirectional
	Net Name	ROT_ENC_B
	Order	9
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RA9 : P1/U18/RA9	Name	RA9
	Number	39
	Swap Id	-1
	Type	Bidirectional
	Net Name	BTN_1
	Order	10
	Is No Connect	True
	Pin Visibility	1

Object	Property Name	Property Value
INS1128438 : P1/TP46	Name	INS1128438
	ID	8645
	Reference	TP46
	Designator	
	Part Reference	TP46
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P1/TP46/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	ASDA1
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS843824 : P1/R70	Name	INS843824
	ID	5603
	Reference	R70
	Designator	
	Part Reference	R70
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,mpn:ERJ-2RK
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RK
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	0402_res_ipc

Object	Property Name	Property Value
1 : P1/R70/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	I2S_COFS
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P1/R70/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N832416
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1116946 : P1/R87	Name	INS1116946
	ID	7911
	Reference	R87
	Designator	
	Part Reference	R87
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,rpn:ERJ-2RKF33R2X}
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RKF33R2X
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	0402_res_ipc

Object	Property Name	Property Value
1 : P1/R87/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	PMCS2
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P1/R87/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N835809
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS841667 : P1/R77	Name	INS841667
	ID	5523
	Reference	R77
	Designator	
	Part Reference	R77
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,mpn:ERJ-2RKF33R2X}
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RKF33R2X
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	0402_res_ipc

Object	Property Name	Property Value
1 : P1/R77/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	CAN_TX
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P1/R77/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N835155
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS967756 : P1/R68	Name	INS967756
	ID	5623
	Reference	R68
	Designator	
	Part Reference	R68
	Value	10k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-0710KL
	Description	RES SMD 10K OHM 1% 1/10W 0603
	Digi-Key PN	311-10.0KHRCT-ND
	digikey_id	{distributorPn:311-10.0KHRCT-ND,mfr:Yageo,mpn:RC0603FR-0710KL,ul:{uid}}

Object	Property Name	Property Value
1 : P1/R68/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P1/R68/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	ASCL2
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS967774 : P1/R66	Name	INS967774
	ID	5626
	Reference	R66
	Designator	
	Part Reference	R66
	Value	10k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-0710KL
	Description	RES SMD 10K OHM 1% 1/10W 0603
	Digi-Key PN	311-10.0KHRCT-ND
	digikey_id	{distributorPn:311-10.0KHRCT-ND,mfr:Yageo,mpn:RC0603FR-0710KL,ul:{uid}}

Object	Property Name	Property Value
1 : P1/R66/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P1/R66/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	ASDA2
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1122428 : P1/RN4	Name	INS1122428
	ID	8509
	Reference	RN4
	Designator	
	Part Reference	RN4
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,mpn:ERJ-2RKF33R2X}
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RKF33R2X
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	repack_4-0804

Object	Property Name	Property Value
1 : P1/RN4/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	PMA4
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P1/RN4/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	PMA5
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
3 : P1/RN4/3	Name	3
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	PMA6
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
4 : P1/RN4/4	Name	4
	Number	4
	Swap Id	-1
	Type	Passive
	Net Name	PMA7
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
8 : P1/RN4/8	Name	8
	Number	8
	Swap Id	-1
	Type	Passive
	Net Name	N836194
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
7 : P1/RN4/7	Name	7
	Number	7
	Swap Id	-1
	Type	Passive
	Net Name	N836204
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
6 : P1/RN4/6	Name	6
	Number	6
	Swap Id	-1
	Type	Passive
	Net Name	N836214
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
5 : P1/RN4/5	Name	5
	Number	5
	Swap Id	-1
	Type	Passive
	Net Name	N836218
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
INS841227 : P1/R74	Name	INS841227
	ID	5497
	Reference	R74
	Designator	
	Part Reference	R74
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,rpn:ERJ-2RKF33R2X}
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RKF33R2X
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	0402_res_ipc

Object	Property Name	Property Value
1 : P1/R74/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	SPI3_SCLK
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P1/R74/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N841249
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS967792 : P1/R69	Name	INS967792
	ID	5629
	Reference	R69
	Designator	
	Part Reference	R69
	Value	10k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-0710KL
	Description	RES SMD 10K OHM 1% 1/10W 0603
	Digi-Key PN	311-10.0KHRCT-ND
	digikey_id	{distributorPn:311-10.0KHRCT-ND,mfr:Yageo,mpn:RC0603FR-0710KL,ul:{uid}}

Object	Property Name	Property Value
1 : P1/R69/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P1/R69/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	ASCL1
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS967810 : P1/R67	Name	INS967810
	ID	5620
	Reference	R67
	Designator	
	Part Reference	R67
	Value	10k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_jpc
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-0710KL
	Description	RES SMD 10K OHM 1% 1/10W 0603
	Digi-Key PN	311-10.0KHRCT-ND
	digikey_id	{distributorPn:311-10.0KHRCT-ND,mfr:Yageo,mpn:RC0603FR-0710KL,ul:{uid}}

Object	Property Name	Property Value
1 : P1/R67/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P1/R67/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	ASDA1
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS837498 : P1/U18	Name	INS837498
	ID	3150
	Reference	U18
	Designator	B
	Part Reference	U18B
	Value	dsPIC33EP512MU814
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:DSPIC33EP512MU814-I/PH-ND,mfr:Microchip Technology,mpn:DSPIC33EP512MU814-I/PH-ND}
	Digi-Key PN	DSPIC33EP512MU814-I/PH-ND
	Description	IC MCU 16BIT 512KB FLASH 144TQFP
	Manufacturer PN	DSPIC33EP512MU814-I/PH
	Manufacturer	Microchip Technology
	PCB Footprint	tqfp144_16x16mm
	Distributor PN	
	Distributor	
	SWAP_INFO	(S1+S2+S3+S4+S5+S6+S7+S8+S9+S10+S11+S12)
	SPLIT_INST	TRUE

Object	Property Name	Property Value
RB0 : P1/U18/RB0	Name	RB0
	Number	35
	Swap Id	-1
	Type	Bidirectional
	Net Name	AIN_AN0
	Order	0
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RB1 : P1/U18/RB1	Name	RB1
	Number	34
	Swap Id	-1
	Type	Bidirectional
	Net Name	AIN_AN1
	Order	1
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RB2 : P1/U18/RB2	Name	RB2
	Number	33
	Swap Id	-1
	Type	Bidirectional
	Net Name	AIN_AN2_POT
	Order	2
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RB3 : P1/U18/RB3	Name	RB3
	Number	32
	Swap Id	-1
	Type	Bidirectional
	Net Name	SWPWM_RGB_R
	Order	3
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RB4 : P1/U18/RB4	Name	RB4
	Number	31
	Swap Id	-1
	Type	Bidirectional
	Net Name	SWPWM_RGB_G
	Order	4
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RB5 : P1/U18/RB5	Name	RB5
	Number	30
	Swap Id	-1
	Type	Bidirectional
	Net Name	SWPWM_RGB_B
	Order	5
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RB8 : P1/U18/RB8	Name	RB8
	Number	47
	Swap Id	-1
	Type	Bidirectional
	Net Name	UART3_RX
	Order	6
	Is No Connect	True
	Pin Visibility	1

Object	Property Name	Property Value
RB9 : P1/U18/RB9	Name	RB9
	Number	48
	Swap Id	-1
	Type	Bidirectional
	Net Name	FT8XX_nINT
	Order	7
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RB10 : P1/U18/RB10	Name	RB10
	Number	49
	Swap Id	-1
	Type	Bidirectional
	Net Name	FT8XX_nPD
	Order	8
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RB11 : P1/U18/RB11	Name	RB11
	Number	50
	Swap Id	-1
	Type	Bidirectional
	Net Name	SPI1_nCS
	Order	9
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RB12 : P1/U18/RB12	Name	RB12
	Number	59
	Swap Id	-1
	Type	Bidirectional
	Net Name	AIN_AN12
	Order	10
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RB13 : P1/U18/RB13	Name	RB13
	Number	60
	Swap Id	-1
	Type	Bidirectional
	Net Name	AIN_AN13
	Order	11
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RB14 : P1/U18/RB14	Name	RB14
	Number	61
	Swap Id	-1
	Type	Bidirectional
	Net Name	AIN_AN14
	Order	12
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RB15 : P1/U18/RB15	Name	RB15
	Number	62
	Swap Id	-1
	Type	Bidirectional
	Net Name	AIN_AN15
	Order	13
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
INS838328 : P1/U18	Name	INS838328
	ID	3306
	Reference	U18
	Designator	K
	Part Reference	U18K
	Value	dsPIC33EP512MU814
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:DSPIC33EP512MU814-I/PH-ND,mfr:Microchip Technology,mpn:DSPIC33EP512MU814-I/PH-ND}
	Digi-Key PN	DSPIC33EP512MU814-I/PH-ND
	Description	IC MCU 16BIT 512KB FLASH 144TQFP
	Manufacturer PN	DSPIC33EP512MU814-I/PH
	Manufacturer	Microchip Technology
	PCB Footprint	tqfp144_16x16mm
	Distributor PN	
	Distributor	
	SWAP_INFO	(S1+S2+S3+S4+S5+S6+S7+S8+S9+S10+S11+S12)
	SPLIT_INST	TRUE

Object	Property Name	Property Value
RK0 : P1/U18/RK0	Name	RK0
	Number	28
	Swap Id	-1
	Type	Bidirectional
	Net Name	PMP_GPIO
	Order	0
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RK1 : P1/U18/RK1	Name	RK1
	Number	29
	Swap Id	-1
	Type	Bidirectional
	Net Name	
	Order	1
	Is No Connect	True
	Pin Visibility	1

Object	Property Name	Property Value
RK11 : P1/U18/RK11	Name	RK11
	Number	94
	Swap Id	-1
	Type	Bidirectional
	Net Name	N1117112
	Order	2
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RK12 : P1/U18/RK12	Name	RK12
	Number	93
	Swap Id	-1
	Type	Bidirectional
	Net Name	N835809
	Order	3
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RK13 : P1/U18/RK13	Name	RK13
	Number	55
	Swap Id	-1
	Type	Bidirectional
	Net Name	N1117172
	Order	4
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RK14 : P1/U18/RK14	Name	RK14
	Number	54
	Swap Id	-1
	Type	Bidirectional
	Net Name	N1117153
	Order	5
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RK15 : P1/U18/RK15	Name	RK15
	Number	53
	Swap Id	-1
	Type	Bidirectional
	Net Name	N835588
	Order	6
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
INS841313 : P1/R73	Name	INS841313
	ID	5501
	Reference	R73
	Designator	
	Part Reference	R73
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,mpn:ERJ-2RKF33R2X}
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RKF33R2X
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	0402_res_ipc

Object	Property Name	Property Value
1 : P1/R73/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	SPI3_MOSI
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P1/R73/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N841340
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS842028 : P1/R78	Name	INS842028
	ID	5538
	Reference	R78
	Designator	
	Part Reference	R78
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,mpn:ERJ-2RKF33R2X}
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RKF33R2X
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	0402_res_ipc

Object	Property Name	Property Value
1 : P1/R78/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	SPI4_MOSI
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P1/R78/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N833906
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS841859 : P1/R81	Name	INS841859
	ID	5530
	Reference	R81
	Designator	
	Part Reference	R81
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,rpn:ERJ-0402_P33.2LCT-ND}
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RKF33R2X
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	0402_res_ipc

Object	Property Name	Property Value
1 : P1/R81/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	SPI1_MOSI
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P1/R81/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N834219
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1128360 : P1/TP43	Name	INS1128360
	ID	8639
	Reference	TP43
	Designator	
	Part Reference	TP43
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P1/TP43/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	ASCL2
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1098900 : P1/R85	Name	INS1098900
	ID	6349
	Reference	R85
	Designator	
	Part Reference	R85
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,mpn:ERJ-2RKF33R2X}
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RKF33R2X
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	0402_res_ipc

Object	Property Name	Property Value
1 : P1/R85/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	PMA13
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P1/R85/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N835374
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1128412 : P1/TP45	Name	INS1128412
	ID	8643
	Reference	TP45
	Designator	
	Part Reference	TP45
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P1/TP45/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	ASCL1
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS837901 : P1/U18	Name	INS837901
	ID	3238
	Reference	U18
	Designator	E
	Part Reference	U18E
	Value	dsPIC33EP512MU814
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:DSPIC33EP512MU814-I/PH-ND,mfr:Microchip Technology,mpn:DSPIC33EP512MU814-I/PH-ND}
	Digi-Key PN	DSPIC33EP512MU814-I/PH-ND
	Description	IC MCU 16BIT 512KB FLASH 144TQFP
	Manufacturer PN	DSPIC33EP512MU814-I/PH
	Manufacturer	Microchip Technology
	PCB Footprint	tqfp144_16x16mm
	Distributor PN	
	Distributor	
	SWAP_INFO	(S1+S2+S3+S4+S5+S6+S7+S8+S9+S10+S11+S12)
	SPLIT_INST	TRUE

Object	Property Name	Property Value
RE0 : P1/U18/RE0	Name	RE0
	Number	136
	Swap Id	-1
	Type	Bidirectional
	Net Name	PWM1L
	Order	0
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RE1 : P1/U18/RE1	Name	RE1
	Number	137
	Swap Id	-1
	Type	Bidirectional
	Net Name	PWM1H
	Order	1
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RE2 : P1/U18/RE2	Name	RE2
	Number	142
	Swap Id	-1
	Type	Bidirectional
	Net Name	PWM2L
	Order	2
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RE3 : P1/U18/RE3	Name	RE3
	Number	143
	Swap Id	-1
	Type	Bidirectional
	Net Name	PWM2H
	Order	3
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RE4 : P1/U18/RE4	Name	RE4
	Number	144
	Swap Id	-1
	Type	Bidirectional
	Net Name	nFAULT2
	Order	4
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RE5 : P1/U18/RE5	Name	RE5
	Number	3
	Swap Id	-1
	Type	Bidirectional
	Net Name	N835155
	Order	5
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RE6 : P1/U18/RE6	Name	RE6
	Number	4
	Swap Id	-1
	Type	Bidirectional
	Net Name	CAN_RX
	Order	6
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RE7 : P1/U18/RE7	Name	RE7
	Number	5
	Swap Id	-1
	Type	Bidirectional
	Net Name	PWM4H
	Order	7
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RE8 : P1/U18/RE8	Name	RE8
	Number	26
	Swap Id	-1
	Type	Bidirectional
	Net Name	MKB1_AN20
	Order	8
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RE9 : P1/U18/RE9	Name	RE9
	Number	27
	Swap Id	-1
	Type	Bidirectional
	Net Name	MKB2_AN21
	Order	9
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
INS1110942 : P1/RN5	Name	INS1110942
	ID	7237
	Reference	RN5
	Designator	
	Part Reference	RN5
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,mpn:ERJ-2RKF33R2X}
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RKF33R2X
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	repack_4-0804

Object	Property Name	Property Value
1 : P1/RN5/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	PMA8
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P1/RN5/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	PMA9
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
3 : P1/RN5/3	Name	3
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	PMA10
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
4 : P1/RN5/4	Name	4
	Number	4
	Swap Id	-1
	Type	Passive
	Net Name	PMA11
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
8 : P1/RN5/8	Name	8
	Number	8
	Swap Id	-1
	Type	Passive
	Net Name	N835215
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
7 : P1/RN5/7	Name	7
	Number	7
	Swap Id	-1
	Type	Passive
	Net Name	N835239
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
6 : P1/RN5/6	Name	6
	Number	6
	Swap Id	-1
	Type	Passive
	Net Name	N835264
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
5 : P1/RN5/5	Name	5
	Number	5
	Swap Id	-1
	Type	Passive
	Net Name	N835290
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
INS841385 : P1/R75	Name	INS841385
	ID	5506
	Reference	R75
	Designator	
	Part Reference	R75
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,rpn:ERJ-P33.2LCT-ND}
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RKF33R2X
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	0402_res_ipc

Object	Property Name	Property Value
1 : P1/R75/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	SPI4_SCLK
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P1/R75/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N841348
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS841487 : P1/R83	Name	INS841487
	ID	5512
	Reference	R83
	Designator	
	Part Reference	R83
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,rpn:ERJ-0402_P33.2LCT-ND}
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RKF33R2X
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	0402_res_ipc

Object	Property Name	Property Value
1 : P1/R83/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	SPI2_MOSI
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P1/R83/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N841561
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS843375 : P1/R72	Name	INS843375
	ID	5596
	Reference	R72
	Designator	
	Part Reference	R72
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,mpn:ERJ-2RKF33R2X}
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RKF33R2X
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	0402_res_ipc

Object	Property Name	Property Value
1 : P1/R72/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	I2S_DOUT
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P1/R72/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N843340
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS837972 : P1/U18	Name	INS837972
	ID	3249
	Reference	U18
	Designator	F
	Part Reference	U18F
	Value	dsPIC33EP512MU814
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:DSPIC33EP512MU814-I/PH-ND,mfr:Microchip Technology,mpn:DSPIC33EP512MU814-I/PH-ND}
	Digi-Key PN	DSPIC33EP512MU814-I/PH-ND
	Description	IC MCU 16BIT 512KB FLASH 144TQFP
	Manufacturer PN	DSPIC33EP512MU814-I/PH
	Manufacturer	Microchip Technology
	PCB Footprint	tqfp144_16x16mm
	Distributor PN	
	Distributor	
	SWAP_INFO	(S1+S2+S3+S4+S5+S6+S7+S8+S9+S10+S11+S12)
	SPLIT_INST	TRUE

Object	Property Name	Property Value
RF0 : P1/U18/RF0	Name	RF0
	Number	126
	Swap Id	-1
	Type	Bidirectional
	Net Name	N833906
	Order	0
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RF1 : P1/U18/RF1	Name	RF1
	Number	127
	Swap Id	-1
	Type	Bidirectional
	Net Name	N843121
	Order	1
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RF2 : P1/U18/RF2	Name	RF2
	Number	75
	Swap Id	-1
	Type	Bidirectional
	Net Name	BTN_2
	Order	2
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RF3 : P1/U18/RF3	Name	RF3
	Number	74
	Swap Id	-1
	Type	Bidirectional
	Net Name	UART3_TX
	Order	3
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RF4 : P1/U18/RF4	Name	RF4
	Number	71
	Swap Id	-1
	Type	Bidirectional
	Net Name	UART1_RTS
	Order	4
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RF5 : P1/U18/RF5	Name	RF5
	Number	72
	Swap Id	-1
	Type	Bidirectional
	Net Name	UART1_CTS
	Order	5
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RF8 : P1/U18/RF8	Name	RF8
	Number	76
	Swap Id	-1
	Type	Bidirectional
	Net Name	BTN_3
	Order	6
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RF12 : P1/U18/RF12	Name	RF12
	Number	58
	Swap Id	-1
	Type	Bidirectional
	Net Name	N834178
	Order	7
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
RF13 : P1/U18/RF13	Name	RF13
	Number	57
	Swap Id	-1
	Type	Bidirectional
	Net Name	N834219
	Order	8
	Is No Connect	False
	Pin Visibility	1

Object	Property Name	Property Value
INS841829 : P1/R80	Name	INS841829
	ID	5527
	Reference	R80
	Designator	
	Part Reference	R80
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,mpn:ERJ-2RKF33R2X}
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RKF33R2X
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	0402_res_ipc

Object	Property Name	Property Value
1 : P1/R80/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	SPI1_SCLK
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P1/R80/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N834178
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS843682 : P1/R71	Name	INS843682
	ID	5600
	Reference	R71
	Designator	
	Part Reference	R71
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,mpn:ERJ-2RKF33R2X}
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RKF33R2X
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	0402_res_ipc

Object	Property Name	Property Value
1 : P1/R71/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	I2S_SCLK
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P1/R71/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N843655
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
Line	Name	I1062245
	Color	Default
	Start X-Coordinate	10
	Start Y-Coordinate	650
	End X-Coordinate	510
	End Y-Coordinate	650

Object	Property Name	Property Value
Capacitor are 0603 -20% 16V unless otherwise noted	Name	I1062233
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	515
	Bounding Box Top	680
	Bounding Box Bottom	696
	Text	Capacitor are 0603 -20% 16V unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	680
	Font	Courier New

Object	Property Name	Property Value
Resistors are 0603 -1% 1/10W unless otherwise noted	Name	I1062239
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	525
	Bounding Box Top	660
	Bounding Box Bottom	676
	Text	Resistors are 0603 -1% 1/10W unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	660
	Font	Courier New

Object	Property Name	Property Value
Ext / Int memory SPI Flash and uSD card	Name	I1091232
	Color	Default
	Bounding Box Left	760
	Bounding Box Right	940
	Bounding Box Top	10
	Bounding Box Bottom	36
	Text	Ext / Int memory SPI Flash and uSD card
	Text Location X-Coordinate	760
	Text Location Y-Coordinate	10
	Font	Courier New

Object	Property Name	Property Value
32Mbit SPI FLASH 3.9mm body width	Name	I1093625
	Color	Default
	Bounding Box Left	620
	Bounding Box Right	752
	Bounding Box Top	263
	Bounding Box Bottom	289
	Text	32Mbit SPI FLASH 3.9mm body width
	Text Location X-Coordinate	620
	Text Location Y-Coordinate	263
	Font	Courier New

Object	Property Name	Property Value
DVDD_3V3 : P13/DVDD_3V3 (Wire ID = 1058332 )	Color	Default
DVDD_3V3 : P13/DVDD_3V3 (Wire ID = 1058332 )	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P13/DVDD_3V3 (Wire ID = 1058336 )	Color	Default
DVDD_3V3 : P13/DVDD_3V3 (Wire ID = 1058336 )	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P13/DVDD_3V3 (Wire ID = 1058340 )	Color	Default
DVDD_3V3 : P13/DVDD_3V3 (Wire ID = 1058340 )	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P13/DVDD_3V3 (Wire ID = 1058352 )	Color	Default
DVDD_3V3 : P13/DVDD_3V3 (Wire ID = 1058352 )	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P13/DVDD_3V3 (Wire ID = 1058400 )	Color	Default
DVDD_3V3 : P13/DVDD_3V3 (Wire ID = 1058400 )	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P13/DVDD_3V3 (Wire ID = 1058404 )	Color	Default
DVDD_3V3 : P13/DVDD_3V3 (Wire ID = 1058404 )	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P13/DVDD_3V3 (Wire ID = 1058408 )	Color	Default
DVDD_3V3 : P13/DVDD_3V3 (Wire ID = 1058408 )	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P13/DVDD_3V3 (Wire ID = 1058420 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DGND : P13/DGND (Wire ID = 1058424 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P13/DGND (Wire ID = 1058490 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
FLASH_nCS : P13/FLASH_NCS (Wire ID = 1058768 )	Color	Default
	Name	FLASH_NCS

Object	Property Name	Property Value
DVDD_3V3 : P13/DVDD_3V3 (Wire ID = 1058774 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P13/DVDD_3V3 (Wire ID = 1058778 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
SD_nCS : P13/SD_NCS (Wire ID = 1058782 )	Color	Default
	Name	SD_NCS

Object	Property Name	Property Value
SPI_MOSI : P13/SPI_MOSI (Wire ID = 1058788 )	Color	Default
	Name	SPI_MOSI

Object	Property Name	Property Value
FLASH_nWP : P13/FLASH_NWP (Wire ID = 1058800 )	Color	Default
	Name	FLASH_NWP

Object	Property Name	Property Value
DVDD_3V3 : P13/DVDD_3V3 (Wire ID = 1058806 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
SPI_SCLK : P13/SPI_SCLK (Wire ID = 1058828 )	Color	Default
	Name	SPI_SCLK

Object	Property Name	Property Value
SPI_MOSI : P13/SPI_MOSI (Wire ID = 1058834 )	Color	Default
	Name	SPI_MOSI

Object	Property Name	Property Value
FLASH_nHOLD : P13/FLASH_NHOLD (Wire ID = 1058845)	Color	Default
	Name	FLASH_NHOLD

Object	Property Name	Property Value
DGND : P13/DGND (Wire ID = 1058846 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P13/DGND (Wire ID = 1058850 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
SPI_SCLK : P13/SPI_SCLK (Wire ID = 1058860 )	Color	Default
	Name	SPI_SCLK

Object	Property Name	Property Value
DGND : P13/DGND (Wire ID = 1058866 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P13/DGND (Wire ID = 1058870 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
SD_nDETECT : P13/SD_NDETECT (Wire ID = 1058874)	Color	Default
	Name	SD_NDETECT

Object	Property Name	Property Value
SD_nDETECT : P13/SD_NDETECT (Wire ID = 1058875)	Color	Default
	Name	SD_NDETECT

Object	Property Name	Property Value
DGND : P13/DGND (Wire ID = 1058882 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
SD_nDETECT : P13/SD_NDETECT (Wire ID = 1058892)	Color	Default
	Name	SD_NDETECT

Object	Property Name	Property Value
SPI_MISO : P13/SPI_MISO (Wire ID = 1059354 )	Color	Default
	Name	SPI_MISO

Object	Property Name	Property Value
SPI_MOSI : P13/SPI_MOSI (Wire ID = 1059372 )	Color	Default
	Name	SPI_MOSI

Object	Property Name	Property Value
SPI_SCLK : P13/SPI_SCLK (Wire ID = 1059454 )	Color	Default
	Name	SPI_SCLK

Object	Property Name	Property Value
FLASH_nCS : P13/FLASH_NCS (Wire ID = 1059478 )	Color	Default
	Name	FLASH_NCS

Object	Property Name	Property Value
SD_nCS : P13/SD_NCS (Wire ID = 1059500 )	Color	Default
	Name	SD_NCS

Object	Property Name	Property Value
FLASH_nWP : P13/FLASH_NWP (Wire ID = 1059532 )	Color	Default
	Name	FLASH_NWP

Object	Property Name	Property Value
FLASH_nHOLD : P13/FLASH_NHOLD (Wire ID = 1059533 )	Color	Default
	Name	FLASH_NHOLD

Object	Property Name	Property Value
N1059675 : P13/N1059675 (Wire ID = 1059675 )	Color	Default
	Name	N1059675

Object	Property Name	Property Value
SPI_MISO : P13/SPI_MISO (Wire ID = 1059878 )	Color	Default
	Name	SPI_MISO

Object	Property Name	Property Value
N1060155 : P13/N1060155 (Wire ID = 1060155 )	Color	Default
	Name	N1060155

Object	Property Name	Property Value
SPI_MISO : P13/SPI_MISO (Wire ID = 1060226 )	Color	Default
	Name	SPI_MISO

Object	Property Name	Property Value
SD_nDETECT : P13/SD_NDETECT (Wire ID = 1060642 )	Color	Default
	Name	SD_NDETECT

Object	Property Name	Property Value
DGND : P13/DGND (Wire ID = 1061152 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
SD_nDETECT : P13/SD_NDETECT (Wire ID = 1061153 )	Color	Default
	Name	SD_NDETECT

Object	Property Name	Property Value
SD_nDETECT : P13/SD_NDETECT (Wire ID = 1061185)	Color	Default
	Name	SD_NDETECT

Object	Property Name	Property Value
N1059675 : P13/N1059675 (Wire ID = 1061768 )	Color	Default
	Name	N1059675

Object	Property Name	Property Value
N1059675 : P13/N1059675 (Wire ID = 1061772 )	Color	Default
	Name	N1059675

Object	Property Name	Property Value
SPI_SCLK : P13/SPI_SCLK (Wire ID = 1061778 )	Color	Default
	Name	SPI_SCLK

Object	Property Name	Property Value
SPI_SCLK : P13/SPI_SCLK (Wire ID = 1061782 )	Color	Default
	Name	SPI_SCLK

Object	Property Name	Property Value
SPI_MOSI : P13/SPI_MOSI (Wire ID = 1061792 )	Color	Default
	Name	SPI_MOSI

Object	Property Name	Property Value
SPI_MOSI : P13/SPI_MOSI (Wire ID = 1061796 )	Color	Default
	Name	SPI_MOSI

Object	Property Name	Property Value
SD_nCS : P13/SD_NCS (Wire ID = 1061806 )	Color	Default
	Name	SD_NCS

Object	Property Name	Property Value
SD_nCS : P13/SD_NCS (Wire ID = 1061810 )	Color	Default
	Name	SD_NCS

Object	Property Name	Property Value
DGND : P13/DGND (Wire ID = 1066002 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P13/DGND (Wire ID = 1066326 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
SPI_MOSI : P13/SPI_MOSI	Name	SPI_MOSI
	Number	
	Swap Id	-1
	Type	Input
	Net Name	SPI2_MOSI
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
SPI_MISO : P13/SPI_MISO	Name	SPI_MISO
	Number	
	Swap Id	-1
	Type	Output
	Net Name	SPI2_MISO
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
SPI_SCLK : P13/SPI_SCLK	Name	SPI_SCLK
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	SPI2_SCLK
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
SD_nCS : P13/SD_nCS	Name	SD_nCS
	Number	
	Swap Id	-1
	Type	Input
	Net Name	SD_nCS
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
FLASH_nCS : P13/FLASH_nCS	Name	FLASH_nCS
	Number	
	Swap Id	-1
	Type	Input
	Net Name	FLASH_nCS
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
FLASH_nWP : P13/FLASH_nWP	Name	FLASH_nWP
	Number	
	Swap Id	-1
	Type	Input
	Net Name	FLASH_nWP
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
FLASH_nHOLD : P13/FLASH_nHOLD	Name	FLASH_nHOLD
	Number	
	Swap Id	-1
	Type	Input
	Net Name	FLASH_nHOLD
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
SD_nDETECT : P13/SD_nDETECT	Name	SD_nDETECT
	Number	
	Swap Id	-1
	Type	Output
	Net Name	SD_nDETECT
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
TitleBlockIntellitrol : P13/TitleBlockIntellitrol	Schematic Page Count	1
	Schematic Page Number	1
	Page Number	12
	Page Count	21
	Path Name	P13/TitleBlockIntellitrol
	Schematic Path	/P13
	ID	8911
	Doc	
	RevCode	0B
	Cage Code	
	Title	Internal / External memory expansion
	OrgName	Jean-Francois Bilodeau, B.E.Eng
	OrgAddr1	CPI/CEP #6022173
	OrgAddr2	925 Chemin ste-foy apt4, QC, CANADA
	OrgAddr3	
	OrgAddr4	
	Name	TitleBlockIntellitrol
	Design Name	DSPEAK-V1_00-0B
	Design File Name	C:\USERS\JEANF\DESKTOP\GIT\DSPEAK\HARDWA
	Design Create Date	Friday, November 13, 2020
	Design Modify Date	Thursday, March 25, 2021
	Design Create Time	18:59:24
	Design Modify Time	19:51:15
	Schematic Name	MEMORY
	Schematic Create Date	Sunday, November 22, 2020
	Schematic Modify Date	Thursday, March 25, 2021
	Schematic Create Time	10:03:52
	Schematic Modify Time	19:32:22
	Page Size	A
	Page Create Date	Sunday, November 22, 2020
	Page Modify Date	Thursday, March 25, 2021
	Page Create Time	10:03:51
	Page Modify Time	19:32:20
	Color	Default
	Source Library	C:\USERS\JEANF\GOOGLE DRIVE\ORCAD16LIB\PIECE\PART.OLB
	Source Symbol	TitleBlockIntellitrol
	Page Name	MEMORY

Object	Property Name	Property Value
INS1079660 : P13/TP48	Name	INS1079660
	ID	8719
	Reference	TP48
	Designator	
	Part Reference	TP48
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P13/TP48/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	SPI_MISO
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1079626 : P13/TP47	Name	INS1079626
	ID	8717
	Reference	TP47
	Designator	
	Part Reference	TP47
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P13/TP47/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	SPI_MOSI
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1059652 : P13/R93	Name	INS1059652
	ID	5774
	Reference	R93
	Designator	
	Part Reference	R93
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Manufacturer	Panasonic Electronic Components
	Manufacturer PN	ERJ-2RKF33R2X
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Digi-Key PN	P33.2LCT-ND
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,mpn:ERJ-
	PCB Footprint	0402_res_ipc

Object	Property Name	Property Value
1 : P13/R93/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N1059675
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P13/R93/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	SPI_MISO
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1066099 : P13/D28	Name	INS1066099
	ID	7351
	Reference	D28
	Designator	
	Part Reference	D28
	Value	TVS 3V3 DL
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:D1213A-02SOL-7DICT-ND,mfr:Diodes Incorporated,mpn:D1213A-02SOL-7DICT-ND}
	Digi-Key PN	D1213A-02SOL-7DICT-ND
	Description	TVS DIODE 3.3V 10V SOT23
	Manufacturer PN	D1213A-02SOL-7
	Manufacturer	Diodes Incorporated
	PCB Footprint	sot23-3
	Distributor	
	Distributor PN	

Object	Property Name	Property Value
CA : P13/D28/CA	Name	CA
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
CAT1 : P13/D28/CAT1	Name	CAT1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	SPI_MOSI
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
CAT2 : P13/D28/CAT2	Name	CAT2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	SD_nCS
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
INS1058362 : P13/C93	Name	INS1058362
	ID	5731
	Reference	C93
	Designator	
	Part Reference	C93
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	PCB Footprint	0603_cap_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P13/C93/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P13/C93/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1079732 : P13/TP50	Name	INS1079732
	ID	8723
	Reference	TP50
	Designator	
	Part Reference	TP50
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P13/TP50/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	SD_nCS
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1079769 : P13/TP51	Name	INS1079769
	ID	8725
	Reference	TP51
	Designator	
	Part Reference	TP51
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P13/TP51/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	FLASH_nCS
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1058808 : P13/R91	Name	INS1058808
	ID	5707
	Reference	R91
	Designator	
	Part Reference	R91
	Value	10k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:311-10.0KHZCT-ND,mfr:Yageo,mpn:RC0603FR-0710KL,ul:uid}
	Digi-Key PN	311-10.0KHZCT-ND
	Description	RES SMD 10K OHM 1% 1/10W 0603
	Manufacturer PN	RC0603FR-0710KL
	Manufacturer	Yageo
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P13/R91/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P13/R91/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	SD_nDETECT
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1091924 : P13/TP52	Name	INS1091924
	ID	8823
	Reference	TP52
	Designator	
	Part Reference	TP52
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P13/TP52/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	FLASH_nWP
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1091959 : P13/TP93	Name	INS1091959
	ID	8825
	Reference	TP93
	Designator	
	Part Reference	TP93
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P13/TP93/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	FLASH_nHOLD
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1060135 : P13/R92	Name	INS1060135
	ID	5783
	Reference	R92
	Designator	
	Part Reference	R92
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,mpn:ERJ-2RKF33R2X}
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RKF33R2X
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	0402_res_ipc

Object	Property Name	Property Value
1 : P13/R92/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N1060155
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P13/R92/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	SPI_MISO
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1091994 : P13/TP94	Name	INS1091994
	ID	8827
	Reference	TP94
	Designator	
	Part Reference	TP94
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P13/TP94/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	SD_nDETECT
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1058664 : P13/U19	Name	INS1058664
	ID	5737
	Reference	U19
	Designator	
	Part Reference	U19
	Value	AT25SF321B
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Manufacturer	Adesto Technologies
	Manufacturer PN	AT25SF321B-SSHB-T
	Description	IC FLASH 32MBIT SPI/QUAD 8SOIC
	Digi-Key PN	1265-AT25SF321B-SSHB-TCT-ND
	digikey_id	{distributorPn:1265-AT25SF321B-SSHB-TCT-ND,mfr:Adesto Technologies,mpn:AT25SF321B-SHBT}
	PCB Footprint	SOIC-8
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
CIS\ : P13/U19/CIS\	Name	CIS\
	Number	1
	Swap Id	-1
	Type	Input
	Net Name	FLASH_nCS
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
MISO : P13/U19/MISO	Name	MISO
	Number	2
	Swap Id	-1
	Type	Output
	Net Name	N1060155
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
WP\ : P13/U19/WP\	Name	WP\
	Number	3
	Swap Id	-1
	Type	Input
	Net Name	FLASH_nWP
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
GND : P13/U19/GND	Name	GND
	Number	4
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
MOSI : P13/U19/MOSI	Name	MOSI
	Number	5
	Swap Id	-1
	Type	Input
	Net Name	SPI_MOSI
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
SCK : P13/U19/SCK	Name	SCK
	Number	6
	Swap Id	-1
	Type	Bidirectional
	Net Name	SPI_SCLK
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
H\O\L\I\ : P13/U19/H\O\L\I\	Name	H\O\L\I\
	Number	7
	Swap Id	-1
	Type	Input
	Net Name	FLASH_nHOLD
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
VCC : P13/U19/VCC	Name	VCC
	Number	8
	Swap Id	-1
	Type	Power
	Net Name	DVDD_3V3
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
INS1079686 : P13/TP49	Name	INS1079686
	ID	8721
	Reference	TP49
	Designator	
	Part Reference	TP49
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P13/TP49/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	SPI_SCLK
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1058510 : P13/J26	Name	INS1058510
	ID	5716
	Reference	J26
	Designator	
	Part Reference	J26
	Value	DM3AT_uSD_CONNECTOR
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:HR1964CT-ND,mfr:Hirose Electric Co Ltd,mpn:DM3AT-SF-PEJ5}
	Digi-Key PN	HR1964CT-ND
	Description	CONN MICRO SD CARD PUSH-PUSH R/A
	Manufacturer PN	DM3AT-SF-PEJM5
	Manufacturer	Hirose Electric Co Ltd
	PCB Footprint	DM3AT
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
DAT2 : P13/J26/DAT2	Name	DAT2
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	0
	Is No Connect	True

Object	Property Name	Property Value
CD/DAT3 : P13/J26/CD/DAT3	Name	CD/DAT3
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	SD_nCS
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
CMD : P13/J26/CMD	Name	CMD
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	SPI_MOSI
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
VDD : P13/J26/VDD	Name	VDD
	Number	4
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
CLK : P13/J26/CLK	Name	CLK
	Number	5
	Swap Id	-1
	Type	Passive
	Net Name	SPI_SCLK
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
VSS : P13/J26/VSS	Name	VSS
	Number	6
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
DAT0 : P13/J26/DAT0	Name	DAT0
	Number	7
	Swap Id	-1
	Type	Passive
	Net Name	N1059675
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
DAT1 : P13/J26/DAT1	Name	DAT1
	Number	8
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	7
	Is No Connect	True

Object	Property Name	Property Value
CD_B : P13/J26/CD_B	Name	CD_B
	Number	9
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	8
	Is No Connect	False

Object	Property Name	Property Value
CD_A : P13/J26/CD_A	Name	CD_A
	Number	10
	Swap Id	-1
	Type	Passive
	Net Name	SD_nDETECT
	Order	9
	Is No Connect	False

Object	Property Name	Property Value
DGND : P13/J26/DGND	Name	DGND
	Number	11
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	10
	Is No Connect	False

Object	Property Name	Property Value
DGND : P13/J26/DGND	Name	DGND
	Number	12
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	11
	Is No Connect	False

Object	Property Name	Property Value
DGND : P13/J26/DGND	Name	DGND
	Number	13
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	12
	Is No Connect	False

Object	Property Name	Property Value
DGND : P13/J26/DGND	Name	DGND
	Number	14
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	13
	Is No Connect	False

Object	Property Name	Property Value
INS1061116 : P13/D26	Name	INS1061116
	ID	6460
	Reference	D26
	Designator	
	Part Reference	D26
	Value	TVS 3V3 SL
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:SZESD8351HT1GOSCT-ND,mfr:ON Semiconductor,mpn:SZESD8351HT1GOSCT-ND}
	Digi-Key PN	SZESD8351HT1GOSCT-ND
	Description	TVS DIODE 3.3VWM 11.2VC SOD323
	Manufacturer PN	SZESD8351HT1G
	Manufacturer	ON Semiconductor
	PCB Footprint	SOD323
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
ANODE : P13/D26/ANODE	Name	ANODE
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
CATHODE : P13/D26/CATHODE	Name	CATHODE
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	SD_nDETECT
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1065956 : P13/D27	Name	INS1065956
	ID	7347
	Reference	D27
	Designator	
	Part Reference	D27
	Value	TVS 3V3 DL
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:D1213A-02SOL-7DICT-ND,mfr:Diodes Incorporated,mpn:D1213A-02SOL-7DICT-ND}
	Digi-Key PN	D1213A-02SOL-7DICT-ND
	Description	TVS DIODE 3.3V 10V SOT23
	Manufacturer PN	D1213A-02SOL-7
	Manufacturer	Diodes Incorporated
	PCB Footprint	sot23-3
	Distributor	
	Distributor PN	

Object	Property Name	Property Value
CA : P13/D27/CA	Name	CA
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
CAT1 : P13/D27/CAT1	Name	CAT1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N1059675
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
CAT2 : P13/D27/CAT2	Name	CAT2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	SPI_SCLK
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
INS1058460 : P13/C94	Name	INS1058460
	ID	5734
	Reference	C94
	Designator	
	Part Reference	C94
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B1
	Digi-Key PN	1276-1000-1-ND
	Description	CAP CER 0.1UF 50V X7R 0603
	Manufacturer PN	CL10B104KB8NNNC
	Manufacturer	Samsung Electro-Mechanics
	PCB Footprint	0603_cap_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P13/C94/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P13/C94/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
Line	Name	I1076861
	Color	Default
	Start X-Coordinate	10
	Start Y-Coordinate	650
	End X-Coordinate	510
	End Y-Coordinate	650

Object	Property Name	Property Value
Capacitor are 0603 -20% 16V unless otherwise noted	Name	I1076849
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	515
	Bounding Box Top	680
	Bounding Box Bottom	696
	Text	Capacitor are 0603 -20% 16V unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	680
	Font	Courier New

Object	Property Name	Property Value
Resistors are 0603 -1% 1/10W unless otherwise noted	Name	I1076855
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	525
	Bounding Box Top	660
	Bounding Box Bottom	676
	Text	Resistors are 0603 -1% 1/10W unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	660
	Font	Courier New

Object	Property Name	Property Value
MikroBus port Click Board compatible General purpose I/Os	Name	I1085649
	Color	Default
	Bounding Box Left	760
	Bounding Box Right	940
	Bounding Box Top	10
	Bounding Box Bottom	49
	Text	MikroBus port Click Board compatible General purpose I/Os
	Text Location X-Coordinate	760
	Text Location Y-Coordinate	10
	Font	Courier New

Object	Property Name	Property Value
DVDD_3V3 : P14/DVDD_3V3 (Wire ID = 965937 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_5V0 : P14/DVDD_5V0 (Wire ID = 965941 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
MKB1_AIN : P14/MKB1_AIN (Wire ID = 966119 )	Color	Default
	Name	MKB1_AIN

Object	Property Name	Property Value
MKB1_PWM : P14/MKB1_PWM (Wire ID = 966125 )	Color	Default
	Name	MKB1_PWM

Object	Property Name	Property Value
MKB1_RST : P14/MKB1_RST (Wire ID = 966131 )	Color	Default
	Name	MKB1_RST

Object	Property Name	Property Value
MKB1_INT : P14/MKB1_INT (Wire ID = 966137 )	Color	Default
	Name	MKB1_INT

Object	Property Name	Property Value
MKB1_nCS : P14/MKB1_NCS (Wire ID = 966143 )	Color	Default
	Name	MKB1_NCS

Object	Property Name	Property Value
UART_RX : P14/UART_RX (Wire ID = 966149 )	Color	Default
	Name	UART_RX

Object	Property Name	Property Value
UART_TX : P14/UART_TX (Wire ID = 966161 )	Color	Default
	Name	UART_TX

Object	Property Name	Property Value
SCL : P14/SCL (Wire ID = 966173 )	Color	Default
	Name	SCL

Object	Property Name	Property Value
SDA : P14/SDA (Wire ID = 966185 )	Color	Default
	Name	SDA

Object	Property Name	Property Value
DVDD_3V3 : P14/DVDD_3V3 (Wire ID = 966191 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_5V0 : P14/DVDD_5V0 (Wire ID = 966195 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DGND : P14/DGND (Wire ID = 966199 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P14/DGND (Wire ID = 966203 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P14/DGND (Wire ID = 966207 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P14/DGND (Wire ID = 966211 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DVDD_3V3 : P14/DVDD_3V3 (Wire ID = 1072476 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_5V0 : P14/DVDD_5V0 (Wire ID = 1072480 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
MKB2_AIN : P14/MKB2_AIN (Wire ID = 1072658 )	Color	Default
	Name	MKB2_AIN

Object	Property Name	Property Value
MKB2_PWM : P14/MKB2_PWM (Wire ID = 1072664 )	Color	Default
	Name	MKB2_PWM

Object	Property Name	Property Value
MKB2_RST : P14/MKB2_RST (Wire ID = 1072670 )	Color	Default
	Name	MKB2_RST

Object	Property Name	Property Value
MKB2_INT : P14/MKB2_INT (Wire ID = 1072676 )	Color	Default
	Name	MKB2_INT

Object	Property Name	Property Value
MKB2_nCS : P14/MKB2_NCS (Wire ID = 1072682 )	Color	Default
	Name	MKB2_NCS

Object	Property Name	Property Value
UART_RX : P14/UART_RX (Wire ID = 1072688 )	Color	Default
	Name	UART_RX

Object	Property Name	Property Value
UART_TX : P14/UART_TX (Wire ID = 1072700 )	Color	Default
	Name	UART_TX

Object	Property Name	Property Value
SCL : P14/SCL (Wire ID = 1072712 )	Color	Default
	Name	SCL

Object	Property Name	Property Value
SDA : P14/SDA (Wire ID = 1072724 )	Color	Default
	Name	SDA

Object	Property Name	Property Value
DVDD_3V3 : P14/DVDD_3V3 (Wire ID = 1072730 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_5V0 : P14/DVDD_5V0 (Wire ID = 1072734 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DGND : P14/DGND (Wire ID = 1072738 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P14/DGND (Wire ID = 1072742 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P14/DGND (Wire ID = 1072746 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P14/DGND (Wire ID = 1072750 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N1073763 : P14/N1073763 (Wire ID = 1073763 )	Color	Default
	Name	N1073763

Object	Property Name	Property Value
N1073775 : P14/N1073775 (Wire ID = 1073775 )	Color	Default
	Name	N1073775

Object	Property Name	Property Value
SPI_MISO : P14/SPI_MISO (Wire ID = 1073813 )	Color	Default
	Name	SPI_MISO

Object	Property Name	Property Value
SPI_MISO : P14/SPI_MISO (Wire ID = 1073823 )	Color	Default
	Name	SPI_MISO

Object	Property Name	Property Value
SPI_SCLK : P14/SPI_SCLK (Wire ID = 1073889 )	Color	Default
	Name	SPI_SCLK

Object	Property Name	Property Value
SPI_SCLK : P14/SPI_SCLK (Wire ID = 1073932 )	Color	Default
	Name	SPI_SCLK

Object	Property Name	Property Value
SPI_MOSI : P14/SPI_MOSI (Wire ID = 1074000 )	Color	Default
	Name	SPI_MOSI

Object	Property Name	Property Value
SPI_MOSI : P14/SPI_MOSI (Wire ID = 1074023 )	Color	Default
	Name	SPI_MOSI

Object	Property Name	Property Value
DGND : P14/DGND (Wire ID = 1074483 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P14/DGND (Wire ID = 1074487 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P14/DGND (Wire ID = 1074491 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P14/DGND (Wire ID = 1074495 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P14/DGND (Wire ID = 1074499 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DVDD_3V3 : P14/DVDD_3V3 (Wire ID = 1074521 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P14/DVDD_3V3 (Wire ID = 1074525 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P14/DVDD_3V3 (Wire ID = 1074527 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P14/DVDD_3V3 (Wire ID = 1074533 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P14/DVDD_3V3 (Wire ID = 1074535 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_5V0 : P14/DVDD_5V0 (Wire ID = 1074664 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DVDD_5V0 : P14/DVDD_5V0 (Wire ID = 1074668 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DGND : P14/DGND (Wire ID = 1074708 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P14/DGND (Wire ID = 1074712 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P14/DGND (Wire ID = 1074716 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P14/DGND (Wire ID = 1074720 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P14/DGND (Wire ID = 1074724 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DVDD_5V0 : P14/DVDD_5V0 (Wire ID = 1074836 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DVDD_5V0 : P14/DVDD_5V0 (Wire ID = 1074885 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DVDD_5V0 : P14/DVDD_5V0 (Wire ID = 1074887 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DVDD_3V3 : P14/DVDD_3V3 (Wire ID = 1075262 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_5V0 : P14/DVDD_5V0 (Wire ID = 1075266 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DVDD_3V3 : P14/DVDD_3V3 (Wire ID = 1075270 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P14/DVDD_3V3 (Wire ID = 1075274 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P14/DVDD_3V3 (Wire ID = 1075278 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_5V0 : P14/DVDD_5V0 (Wire ID = 1075282 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DVDD_5V0 : P14/DVDD_5V0 (Wire ID = 1075286 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DVDD_5V0 : P14/DVDD_5V0 (Wire ID = 1075290 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DGND : P14/DGND (Wire ID = 1075366 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P14/DGND (Wire ID = 1075370 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P14/DGND (Wire ID = 1075374 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P14/DGND (Wire ID = 1075378 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P14/DGND (Wire ID = 1075382 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P14/DGND (Wire ID = 1075386 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P14/DGND (Wire ID = 1075390 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P14/DGND (Wire ID = 1075394 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P14/DGND (Wire ID = 1075398 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P14/DGND (Wire ID = 1075402 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DVDD_3V3 : P14/DVDD_3V3 (Wire ID = 1075459 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_5V0 : P14/DVDD_5V0 (Wire ID = 1075484 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DVDD_5V0	Name	DVDD_5V0
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DVDD_5V0	Name	DVDD_5V0
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
SPI_MOSI : P14/SPI_MOSI	Name	SPI_MOSI
	Number	
	Swap Id	-1
	Type	Input
	Net Name	SPI4_MOSI
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
SPI_MISO : P14/SPI_MISO	Name	SPI_MISO
	Number	
	Swap Id	-1
	Type	Output
	Net Name	SPI4_MISO
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
SPI_SCLK : P14/SPI_SCLK	Name	SPI_SCLK
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	SPI4_SCLK
	Order	9
	Is No Connect	False

Object	Property Name	Property Value
UART_TX : P14/UART_TX	Name	UART_TX
	Number	
	Swap Id	-1
	Type	Input
	Net Name	UART2_TX
	Order	15
	Is No Connect	False

Object	Property Name	Property Value
UART_RX : P14/UART_RX	Name	UART_RX
	Number	
	Swap Id	-1
	Type	Output
	Net Name	UART2_RX
	Order	8
	Is No Connect	False

Object	Property Name	Property Value
SDA : P14/SDA	Name	SDA
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	ASDA1
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
SCL : P14/SCL	Name	SCL
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	ASCL1
	Order	10
	Is No Connect	False

Object	Property Name	Property Value
MKB1_PWM : P14/MKB1_PWM	Name	MKB1_PWM
	Number	
	Swap Id	-1
	Type	Input
	Net Name	MKB1_PWM
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
MKB2_PWM : P14/MKB2_PWM	Name	MKB2_PWM
	Number	
	Swap Id	-1
	Type	Input
	Net Name	MKB2_PWM
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
MKB1_INT : P14/MKB1_INT	Name	MKB1_INT
	Number	
	Swap Id	-1
	Type	Output
	Net Name	MKB1_INT
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
MKB2_INT : P14/MKB2_INT	Name	MKB2_INT
	Number	
	Swap Id	-1
	Type	Output
	Net Name	MKB2_INT
	Order	16
	Is No Connect	False

Object	Property Name	Property Value
MKB2_AIN : P14/MKB2_AIN	Name	MKB2_AIN
	Number	
	Swap Id	-1
	Type	Output
	Net Name	MKB2_AIN
	Order	13
	Is No Connect	False

Object	Property Name	Property Value
MKB1_nCS : P14/MKB1_nCS	Name	MKB1_nCS
	Number	
	Swap Id	-1
	Type	Input
	Net Name	MKB1_nCS
	Order	14
	Is No Connect	False

Object	Property Name	Property Value
MKB2_nCS : P14/MKB2_nCS	Name	MKB2_nCS
	Number	
	Swap Id	-1
	Type	Input
	Net Name	MKB2_nCS
	Order	12
	Is No Connect	False

Object	Property Name	Property Value
SPI_SCLK : P14/SPI_SCLK	Name	SPI_SCLK
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	SPI4_SCLK
	Order	9
	Is No Connect	False

Object	Property Name	Property Value
SPI_MISO : P14/SPI_MISO	Name	SPI_MISO
	Number	
	Swap Id	-1
	Type	Output
	Net Name	SPI4_MISO
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
SPI_MOSI : P14/SPI_MOSI	Name	SPI_MOSI
	Number	
	Swap Id	-1
	Type	Input
	Net Name	SPI4_MOSI
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
MKB1_AIN : P14/MKB1_AIN	Name	MKB1_AIN
	Number	
	Swap Id	-1
	Type	Output
	Net Name	MKB1_AIN
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
MKB1_RST : P14/MKB1_RST	Name	MKB1_RST
	Number	
	Swap Id	-1
	Type	Input
	Net Name	MKB1_RST
	Order	11
	Is No Connect	False

Object	Property Name	Property Value
SCL : P14/SCL	Name	SCL
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	ASCL1
	Order	10
	Is No Connect	False

Object	Property Name	Property Value
SDA : P14/SDA	Name	SDA
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	ASDA1
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
MKB2_RST : P14/MKB2_RST	Name	MKB2_RST
	Number	
	Swap Id	-1
	Type	Input
	Net Name	MKB2_RST
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
UART_RX : P14/UART_RX	Name	UART_RX
	Number	
	Swap Id	-1
	Type	Output
	Net Name	UART2_RX
	Order	8
	Is No Connect	False

Object	Property Name	Property Value
UART_TX : P14/UART_TX	Name	UART_TX
	Number	
	Swap Id	-1
	Type	Input
	Net Name	UART2_TX
	Order	15
	Is No Connect	False

Object	Property Name	Property Value
TitleBlockIntellitrol : P14/TitleBlockIntellitrol	Schematic Page Count	1
	Schematic Page Number	1
	Page Number	13
	Page Count	21
	Path Name	P14/TitleBlockIntellitrol
	Schematic Path	/P14
	ID	8912
	Doc	
	RevCode	0B
	Cage Code	
	Title	MikroBus expansion socket - dual
	OrgName	Jean-Francois Bilodeau, B.E.Eng
	OrgAddr1	CPI/CEP #6022173
	OrgAddr2	925 Chemin ste-foy apt4, QC, CANADA
	OrgAddr3	
	OrgAddr4	
	Name	TitleBlockIntellitrol
	Design Name	DSPEAK-V1_00-0B
	Design File Name	C:\USERS\JEANF\DESKTOP\GIT\DSPEAK\HARDWA
	Design Create Date	Friday, November 13, 2020
	Design Modify Date	Thursday, March 25, 2021
	Design Create Time	18:59:24
	Design Modify Time	19:51:15
	Schematic Name	MikroBus
	Schematic Create Date	Sunday, November 22, 2020
	Schematic Modify Date	Thursday, March 25, 2021
	Schematic Create Time	10:13:16
	Schematic Modify Time	18:37:30
	Page Size	A
	Page Create Date	Sunday, November 22, 2020
	Page Modify Date	Thursday, March 25, 2021
	Page Create Time	10:13:14
	Page Modify Time	18:37:29
	Color	Default
	Source Library	C:\USERS\JEANF\GOOGLE DRIVE\ORCAD16LIB\PIECE\PART.OLB
	Source Symbol	TitleBlockIntellitrol
	Page Name	MikroBus

Object	Property Name	Property Value
INS1073745 : P14/R95	Name	INS1073745
	ID	5878
	Reference	R95
	Designator	
	Part Reference	R95
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,mpn:ERJ-2RKF33R2X}
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RKF33R2X
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	0402_res_ipc

Object	Property Name	Property Value
1 : P14/R95/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	SPI_MISO
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P14/R95/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N1073763
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1075292 : P14/C95	Name	INS1075292
	ID	5924
	Reference	C95
	Designator	
	Part Reference	C95
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P14/C95/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P14/C95/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1075310 : P14/C97	Name	INS1075310
	ID	5927
	Reference	C97
	Designator	
	Part Reference	C97
	Value	10uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0805_cap
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL21A106KOQNNNG
	Description	CAP CER 10UF 16V X5R 0805
	Digi-Key PN	1276-6455-1-ND
	digikey_id	{distributorPn:1276-6455-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL21A106KOQNNNG}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P14/C97/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P14/C97/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1072482 : P14/J28	Name	INS1072482
	ID	5823
	Reference	J28
	Designator	
	Part Reference	J28
	Value	MikroBUS interface
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:S7006-ND,mfr:Sullins Connector Solutions,mpn:PPTC081LFBNS}
	Digi-Key PN	S7006-ND
	Description	CONN HDR 8POS 0.1 TIN PCB
	Manufacturer PN	PPTC081LFBNS-RC
	Manufacturer	Sullins Connector Solutions
	PCB Footprint	MikroBus
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
AN : P14/J28/AN	Name	AN
	Number	1
	Swap Id	-1
	Type	Input
	Net Name	MKB2_AN
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
RST : P14/J28/RST	Name	RST
	Number	2
	Swap Id	-1
	Type	Input
	Net Name	MKB2_RST
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
CS : P14/J28/CS	Name	CS
	Number	3
	Swap Id	-1
	Type	Input
	Net Name	MKB2_nCS
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
SCK : P14/J28/SCK	Name	SCK
	Number	4
	Swap Id	-1
	Type	Bidirectional
	Net Name	SPI_SCLK
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
MISO : P14/J28/MISO	Name	MISO
	Number	5
	Swap Id	-1
	Type	Bidirectional
	Net Name	N1073763
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
MOSI : P14/J28/MOSI	Name	MOSI
	Number	6
	Swap Id	-1
	Type	Bidirectional
	Net Name	SPI_MOSI
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
+3.3V : P14/J28/+3.3V	Name	+3.3V
	Number	7
	Swap Id	-1
	Type	Power
	Net Name	DVDD_3V3
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
GND : P14/J28/GND	Name	GND
	Number	8
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
GND : P14/J28/GND	Name	GND
	Number	9
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	8
	Is No Connect	False

Object	Property Name	Property Value
+5V : P14/J28/+5V	Name	+5V
	Number	10
	Swap Id	-1
	Type	Power
	Net Name	DVDD_5V0
	Order	9
	Is No Connect	False

Object	Property Name	Property Value
SDA : P14/J28/SDA	Name	SDA
	Number	11
	Swap Id	-1
	Type	Bidirectional
	Net Name	SDA
	Order	10
	Is No Connect	False

Object	Property Name	Property Value
SCL : P14/J28/SCL	Name	SCL
	Number	12
	Swap Id	-1
	Type	Bidirectional
	Net Name	SCL
	Order	11
	Is No Connect	False

Object	Property Name	Property Value
TX : P14/J28/TX	Name	TX
	Number	13
	Swap Id	-1
	Type	Bidirectional
	Net Name	UART_TX
	Order	12
	Is No Connect	False

Object	Property Name	Property Value
RX : P14/J28/RX	Name	RX
	Number	14
	Swap Id	-1
	Type	Bidirectional
	Net Name	UART_RX
	Order	13
	Is No Connect	False

Object	Property Name	Property Value
INT : P14/J28/INT	Name	INT
	Number	15
	Swap Id	-1
	Type	Bidirectional
	Net Name	MKB2_INT
	Order	14
	Is No Connect	False

Object	Property Name	Property Value
PWM : P14/J28/PWM	Name	PWM
	Number	16
	Swap Id	-1
	Type	Bidirectional
	Net Name	MKB2_PWM
	Order	15
	Is No Connect	False

Object	Property Name	Property Value
INS965943 : P14/J27	Name	INS965943
	ID	5791
	Reference	J27
	Designator	
	Part Reference	J27
	Value	MikroBUS interface
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:S7006-ND,mfr:Sullins Connector Solutions,mpn:PPTC081LFBNS}
	Digi-Key PN	S7006-ND
	Description	CONN HDR 8POS 0.1 TIN PCB
	Manufacturer PN	PPTC081LFBNS-RC
	Manufacturer	Sullins Connector Solutions
	PCB Footprint	MikroBus
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
AN : P14/J27/AN	Name	AN
	Number	1
	Swap Id	-1
	Type	Input
	Net Name	MKB1_AN
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
RST : P14/J27/RST	Name	RST
	Number	2
	Swap Id	-1
	Type	Input
	Net Name	MKB1_RST
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
CS : P14/J27/CS	Name	CS
	Number	3
	Swap Id	-1
	Type	Input
	Net Name	MKB1_nCS
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
SCK : P14/J27/SCK	Name	SCK
	Number	4
	Swap Id	-1
	Type	Bidirectional
	Net Name	SPI_SCLK
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
MISO : P14/J27/MISO	Name	MISO
	Number	5
	Swap Id	-1
	Type	Bidirectional
	Net Name	N1073775
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
MOSI : P14/J27/MOSI	Name	MOSI
	Number	6
	Swap Id	-1
	Type	Bidirectional
	Net Name	SPI_MOSI
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
+3.3V : P14/J27/+3.3V	Name	+3.3V
	Number	7
	Swap Id	-1
	Type	Power
	Net Name	DVDD_3V3
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
GND : P14/J27/GND	Name	GND
	Number	8
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
GND : P14/J27/GND	Name	GND
	Number	9
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	8
	Is No Connect	False

Object	Property Name	Property Value
+5V : P14/J27/+5V	Name	+5V
	Number	10
	Swap Id	-1
	Type	Power
	Net Name	DVDD_5V0
	Order	9
	Is No Connect	False

Object	Property Name	Property Value
SDA : P14/J27/SDA	Name	SDA
	Number	11
	Swap Id	-1
	Type	Bidirectional
	Net Name	SDA
	Order	10
	Is No Connect	False

Object	Property Name	Property Value
SCL : P14/J27/SCL	Name	SCL
	Number	12
	Swap Id	-1
	Type	Bidirectional
	Net Name	SCL
	Order	11
	Is No Connect	False

Object	Property Name	Property Value
TX : P14/J27/TX	Name	TX
	Number	13
	Swap Id	-1
	Type	Bidirectional
	Net Name	UART_TX
	Order	12
	Is No Connect	False

Object	Property Name	Property Value
RX : P14/J27/RX	Name	RX
	Number	14
	Swap Id	-1
	Type	Bidirectional
	Net Name	UART_RX
	Order	13
	Is No Connect	False

Object	Property Name	Property Value
INT : P14/J27/INT	Name	INT
	Number	15
	Swap Id	-1
	Type	Bidirectional
	Net Name	MKB1_INT
	Order	14
	Is No Connect	False

Object	Property Name	Property Value
PWM : P14/J27/PWM	Name	PWM
	Number	16
	Swap Id	-1
	Type	Bidirectional
	Net Name	MKB1_PWM
	Order	15
	Is No Connect	False

Object	Property Name	Property Value
INS1075328 : P14/C99	Name	INS1075328
	ID	5930
	Reference	C99
	Designator	
	Part Reference	C99
	Value	10uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0805_cap
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL21A106KOQNNNG
	Description	CAP CER 10UF 16V X5R 0805
	Digi-Key PN	1276-6455-1-ND
	digikey_id	{distributorPn:1276-6455-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL21A106KOQNNNG}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P14/C99/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_5V0
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P14/C99/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1075346 : P14/C101	Name	INS1075346
	ID	5933
	Reference	C101
	Designator	
	Part Reference	C101
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P14/C101/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_5V0
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P14/C101/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1074445 : P14/C96	Name	INS1074445
	ID	5910
	Reference	C96
	Designator	
	Part Reference	C96
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P14/C96/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P14/C96/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1074463 : P14/C98	Name	INS1074463
	ID	5913
	Reference	C98
	Designator	
	Part Reference	C98
	Value	10uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0805_cap
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL21A106KOQNNNG
	Description	CAP CER 10UF 16V X5R 0805
	Digi-Key PN	1276-6455-1-ND
	digikey_id	{distributorPn:1276-6455-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL21A106KOQNNNG}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P14/C98/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P14/C98/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1073717 : P14/R94	Name	INS1073717
	ID	5875
	Reference	R94
	Designator	
	Part Reference	R94
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,mpn:ERJ-2RKF33R2X}
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RKF33R2X
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	0402_res_ipc

Object	Property Name	Property Value
1 : P14/R94/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	SPI_MISO
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P14/R94/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N1073775
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1074670 : P14/C102	Name	INS1074670
	ID	5920
	Reference	C102
	Designator	
	Part Reference	C102
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P14/C102/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_5V0
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P14/C102/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1074688 : P14/C100	Name	INS1074688
	ID	5917
	Reference	C100
	Designator	
	Part Reference	C100
	Value	10uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0805_cap
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL21A106KOQNNNG
	Description	CAP CER 10UF 16V X5R 0805
	Digi-Key PN	1276-6455-1-ND
	digikey_id	{distributorPn:1276-6455-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL21A106KOQNNNG}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P14/C100/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_5V0
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P14/C100/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
Line	Name	I838747
	Color	Default
	Start X-Coordinate	10
	Start Y-Coordinate	890
	End X-Coordinate	610
	End Y-Coordinate	890

Object	Property Name	Property Value
Resistors are 0603 -1% 1/10W unless otherwise noted	Name	I838741
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	576
	Bounding Box Top	900
	Bounding Box Bottom	919
	Text	Resistors are 0603 -1% 1/10W unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	900
	Font	Courier New

Object	Property Name	Property Value
Capacitor are 0603 -20% 16V unless otherwise noted	Name	I838753
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	565
	Bounding Box Top	920
	Bounding Box Bottom	939
	Text	Capacitor are 0603 -20% 16V unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	920
	Font	Courier New

Object	Property Name	Property Value
Place close to connector	Name	I846667
	Color	Default
	Bounding Box Left	220
	Bounding Box Right	344
	Bounding Box Top	610
	Bounding Box Bottom	636
	Text	Place close to connector
	Text Location X-Coordinate	220
	Text Location Y-Coordinate	610
	Font	Courier New

Object	Property Name	Property Value
Brushed DC motor driver QEI encoder feedback	Name	I1091250
	Color	Default
	Bounding Box Left	1300
	Bounding Box Right	1488
	Bounding Box Top	10
	Bounding Box Bottom	36
	Text	Brushed DC motor driver QEI encoder feedback
	Text Location X-Coordinate	1300
	Text Location Y-Coordinate	10
	Font	Courier New

Object	Property Name	Property Value
Rsen = 0.35V / Imotor 200mOhm = Imotor <= 1.75A p <sub>d</sub> = R * I <sup>2</sup> = 153mW	Name	I1091674
	Color	Default
	Bounding Box Left	560
	Bounding Box Right	801
	Bounding Box Top	290
	Bounding Box Bottom	323
	Text	Rsen = 0.35V / Imotor 200mOhm = Imotor <= 1.75A p <sub>d</sub> = R * I <sup>2</sup> = 153mW
	Text Location X-Coordinate	560
	Text Location Y-Coordinate	290
	Font	Courier New

Object	Property Name	Property Value
DGND : P17/DGND (Wire ID = 839525 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P17/DGND (Wire ID = 839531 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P17/DGND (Wire ID = 839533 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P17/DGND (Wire ID = 839650 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N839657 : P17/N839657 (Wire ID = 839657 )	Color	Default
	Name	N839657

Object	Property Name	Property Value
nFAULTx : P17/NFAULTx (Wire ID = 840049 )	Color	Default
	Name	NFAULTx

Object	Property Name	Property Value
nFAULTx : P17/NFAULTx (Wire ID = 840051 )	Color	Default
	Name	NFAULTx

Object	Property Name	Property Value
PWMxL : P17/PWMxL (Wire ID = 840056 )	Color	Default
	Name	PWMxL

Object	Property Name	Property Value
PWMxH : P17/PWMxH (Wire ID = 840060 )	Color	Default
	Name	PWMxH

Object	Property Name	Property Value
nFAULTx : P17/NFAULTX (Wire ID = 840121 )	Color	Default
	Name	NFAULTX

Object	Property Name	Property Value
OUTB : P17/OUTB (Wire ID = 840262 )	Color	Default
	Name	OUTB

Object	Property Name	Property Value
DVDD_3V3 : P17/DVDD_3V3 (Wire ID = 841683 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_5V0 : P17/DVDD_5V0 (Wire ID = 842172 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DVDD_5V0 : P17/DVDD_5V0 (Wire ID = 842180 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DGND : P17/DGND (Wire ID = 842278 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
OUTA : P17/OUTA (Wire ID = 842964 )	Color	Default
	Name	OUTA

Object	Property Name	Property Value
DGND : P17/DGND (Wire ID = 843378 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DVDD_5V0 : P17/DVDD_5V0 (Wire ID = 843430 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
N843649 : P17/N843649 (Wire ID = 843649 )	Color	Default
	Name	N843649

Object	Property Name	Property Value
QEA_OUT : P17/QEA_OUT (Wire ID = 843850 )	Color	Default
	Name	QEA_OUT

Object	Property Name	Property Value
QEA_OUT : P17/QEA_OUT (Wire ID = 843852 )	Color	Default
	Name	QEA_OUT

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : P17/DGND (Wire ID = 843874 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
QEA_OUT : P17/QEA_OUT (Wire ID = 843967 )	Color	Default
	Name	QEA_OUT

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DVDD_5V0 : P17/DVDD_5V0 (Wire ID = 844259 )	Color	Default
	Name	DVDD_5V0

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DVDD_5V0 : P17/DVDD_5V0 (Wire ID = 844263 )	Color	Default
	Name	DVDD_5V0

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DVDD_5V0 : P17/DVDD_5V0 (Wire ID = 844267 )	Color	Default
	Name	DVDD_5V0

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : P17/DGND (Wire ID = 844289 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
QEB_OUT : P17/QEB_OUT (Wire ID = 844391 )	Color	Default
	Name	QEB_OUT

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
QEB_OUT : P17/QEB_OUT (Wire ID = 844395 )	Color	Default
	Name	QEB_OUT

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
QEB_OUT : P17/QEB_OUT (Wire ID = 844399 )	Color	Default
	Name	QEB_OUT

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N844403 : P17/N844403 (Wire ID = 844403 )	Color	Default
	Name	N844403

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N844403 : P17/N844403 (Wire ID = 844409 )	Color	Default
	Name	N844403

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : P17/DGND (Wire ID = 844433 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P17/DGND (Wire ID = 844437 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
VM : P17/VM (Wire ID = 844606 )	Color	Default
	Name	VM

Object	Property Name	Property Value
DGND : P17/DGND (Wire ID = 844628 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
VM : P17/VM (Wire ID = 844650 )	Color	Default
	Name	VM

Object	Property Name	Property Value
VM : P17/VM (Wire ID = 845680 )	Color	Default
	Name	VM

Object	Property Name	Property Value
VM : P17/VM (Wire ID = 845682 )	Color	Default
	Name	VM

Object	Property Name	Property Value
VM : P17/VM (Wire ID = 845700 )	Color	Default
	Name	VM

Object	Property Name	Property Value
DGND : P17/DGND (Wire ID = 845729 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N846095 : P17/N846095 (Wire ID = 846095 )	Color	Default
	Name	N846095

Object	Property Name	Property Value
DGND : P17/DGND (Wire ID = 846324 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DVDD_5V0 : P17/DVDD_5V0 (Wire ID = 846341 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
N843649 : P17/N843649 (Wire ID = 972959 )	Color	Default
	Name	N843649

Object	Property Name	Property Value
N843649 : P17/N843649 (Wire ID = 972963 )	Color	Default
	Name	N843649

Object	Property Name	Property Value
N846095 : P17/N846095 (Wire ID = 972967 )	Color	Default
	Name	N846095

Object	Property Name	Property Value
N846095 : P17/N846095 (Wire ID = 972975 )	Color	Default
	Name	N846095

Object	Property Name	Property Value
QEA_IN : P17/QEA_IN (Wire ID = 973224 )	Color	Default
	Name	QEA_IN

Object	Property Name	Property Value
QEB_IN : P17/QEB_IN (Wire ID = 973228 )	Color	Default
	Name	QEB_IN

Object	Property Name	Property Value
N846095 : P17/N846095 (Wire ID = 973250 )	Color	Default
	Name	N846095

Object	Property Name	Property Value
N846095 : P17/N846095 (Wire ID = 973252 )	Color	Default
	Name	N846095

Object	Property Name	Property Value
DVDD_5V0 : P17/DVDD_5V0 (Wire ID = 974016 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DVDD_5V0 : P17/DVDD_5V0 (Wire ID = 974037 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
N974265 : P17/N974265 (Wire ID = 974265 )	Color	Default
	Name	N974265

Object	Property Name	Property Value
N974265 : P17/N974265 (Wire ID = 974282 )	Color	Default
	Name	N974265

Object	Property Name	Property Value
N974265 : P17/N974265 (Wire ID = 974286 )	Color	Default
	Name	N974265

Object	Property Name	Property Value
N974265 : P17/N974265 (Wire ID = 974292 )	Color	Default
	Name	N974265

Object	Property Name	Property Value
N974265 : P17/N974265 (Wire ID = 974301 )	Color	Default
	Name	N974265

Object	Property Name	Property Value
N974265 : P17/N974265 (Wire ID = 974303 )	Color	Default
	Name	N974265

Object	Property Name	Property Value
N844403 : P17/N844403 (Wire ID = 974337 )	Color	Default
	Name	N844403

Object	Property Name	Property Value
N844403 : P17/N844403 (Wire ID = 974341 )	Color	Default
	Name	N844403

Object	Property Name	Property Value
N844403 : P17/N844403 (Wire ID = 974347 )	Color	Default
	Name	N844403

Object	Property Name	Property Value
N844403 : P17/N844403 (Wire ID = 974356 )	Color	Default
	Name	N844403

Object	Property Name	Property Value
N839657 : P17/N839657 (Wire ID = 997929 )	Color	Default
	Name	N839657

Object	Property Name	Property Value
DGND : P17/DGND (Wire ID = 1000328 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
QEA_OUT : P17/QEA_OUT (Wire ID = 1079646 )	Color	Default
	Name	QEA_OUT

Object	Property Name	Property Value
QEB_OUT : P17/QEB_OUT (Wire ID = 1079681 )	Color	Default
	Name	QEB_OUT

Object	Property Name	Property Value
PWMxL : P17/PWMXL (Wire ID = 1079782 )	Color	Default
	Name	PWMXL

Object	Property Name	Property Value
PWMxL : P17/PWMXL (Wire ID = 1079786 )	Color	Default
	Name	PWMXL

Object	Property Name	Property Value
PWMxH : P17/PWMXH (Wire ID = 1079792 )	Color	Default
	Name	PWMXH

Object	Property Name	Property Value
PWMxH : P17/PWMXH (Wire ID = 1079796 )	Color	Default
	Name	PWMXH

Object	Property Name	Property Value
nFAULTx : P17/NFAULTX (Wire ID = 1079802 )	Color	Default
	Name	NFAULTX

Object	Property Name	Property Value
nFAULTx : P17/NFAULTX (Wire ID = 1079806 )	Color	Default
	Name	NFAULTX

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DVDD_5V0	Name	DVDD_5V0
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DVDD_5V0	Name	DVDD_5V0
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DVDD_5V0	Name	DVDD_5V0
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
PWMxL : P17/PWMxL	Name	PWMxL
	Number	
	Swap Id	-1
	Type	Input
	Net Name	PWM1L
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
PWMxH : P17/PWMxH	Name	PWMxH
	Number	
	Swap Id	-1
	Type	Input
	Net Name	PWM1H
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
nFAULTx : P17/nFAULTx	Name	nFAULTx
	Number	
	Swap Id	-1
	Type	Output
	Net Name	nFAULT1
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
QEA_OUT : P17/QEA_OUT	Name	QEA_OUT
	Number	
	Swap Id	-1
	Type	Output
	Net Name	QEA1
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
QEB_OUT : P17/QEB_OUT	Name	QEB_OUT
	Number	
	Swap Id	-1
	Type	Output
	Net Name	QEB1
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
VM : P17/VM	Name	VM
	Number	
	Swap Id	-1
	Type	Input
	Net Name	VM
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
OUTA : P17/OUTA	Name	OUTA
	Number	
	Swap Id	-1
	Type	Output
	Net Name	DRV1_OUTA
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
OUTB : P17/OUTB	Name	OUTB
	Number	
	Swap Id	-1
	Type	Output
	Net Name	DRV1_OUTB
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
QEA_IN : P17/QEA_IN	Name	QEA_IN
	Number	
	Swap Id	-1
	Type	Input
	Net Name	QEA1_IN
	Order	8
	Is No Connect	False

Object	Property Name	Property Value
QEB_IN : P17/QEB_IN	Name	QEB_IN
	Number	
	Swap Id	-1
	Type	Input
	Net Name	QEB1_IN
	Order	9
	Is No Connect	False

Object	Property Name	Property Value
TitleBlockIntellitrol : P17/TitleBlockIntellitrol	Schematic Page Count	2
	Schematic Page Number	1
	Page Number	14
	Page Count	21
	Path Name	P17/TitleBlockIntellitrol
	Schematic Path	/P17
	ID	8914
	OrgAddr4	
	OrgAddr3	
	OrgAddr2	925 Chemin ste-foy apt4, QC, CANADA
	OrgAddr1	CPI/CEP #6022173
	OrgName	Jean-Francois Bilodeau, B.E.Eng
	Title	Brushed DC motor control with QEI
	Cage Code	
	RevCode	0B
	Doc	
	Name	TitleBlockIntellitrol
	Design Name	DSPEAK-V1_00-0B
	Design File Name	C:\USERS\JEANF\DESKTOP\GIT\DSPEAK\HARDWARE\V1_00-0B\CAPTURE
	Design Create Date	Friday, November 13, 2020
	Design Modify Date	Thursday, March 25, 2021
	Design Create Time	18:59:24
	Design Modify Time	19:51:15
	Schematic Name	Motor driver
	Schematic Create Date	Monday, November 16, 2020
	Schematic Modify Date	Thursday, March 25, 2021
	Schematic Create Time	20:36:14
	Schematic Modify Time	19:44:14
	Page Size	B
	Page Create Date	Monday, November 16, 2020
	Page Modify Date	Thursday, March 25, 2021
	Page Create Time	20:36:13
	Page Modify Time	19:44:13
	Color	Default
	Source Library	C:\USERS\JEANF\GOOGLE DRIVE\ORCAD16LIB\PIECE\PART.OLB
	Source Symbol	TitleBlockIntellitrol
	Page Name	MOTOR DRIVE

Object	Property Name	Property Value
INS1079626 : P17/TP57	Name	INS1079626
	ID	8687
	Reference	TP57
	Designator	
	Part Reference	TP57
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P17/TP57/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	QEA_OUT
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1079661 : P17/TP58	Name	INS1079661
	ID	8691
	Reference	TP58
	Designator	
	Part Reference	TP58
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P17/TP58/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	QEB_OUT
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS842214 : P17/U24	Name	INS842214
	ID	2335
	Reference	U24
	Designator	
	Part Reference	U24
	Value	MCP6L91
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:MCP6L91T-E/OTCT-ND,mfr:Microchip Technology,mpn:MCP6L91T-E/OTCT-ND}
	Digi-Key PN	MCP6L91T-E/OTCT-ND
	Description	IC OPAMP GP 1 CIRCUIT SOT23-5
	Manufacturer PN	MCP6L91T-E/OT
	Manufacturer	Microchip Technology
	PCB Footprint	sot23-5
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
OUT : P17/U24/OUT	Name	OUT
	Number	1
	Swap Id	-1
	Type	Power
	Net Name	N974265
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
V- : P17/U24/V-	Name	V-
	Number	2
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
IN+ : P17/U24/IN+	Name	IN+
	Number	3
	Swap Id	-1
	Type	Input
	Net Name	N843649
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
IN- : P17/U24/IN-	Name	IN-
	Number	4
	Swap Id	-1
	Type	Input
	Net Name	N974265
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
V+ : P17/U24/V+	Name	V+
	Number	5
	Swap Id	-1
	Type	Power
	Net Name	DVDD_5V0
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
INS844365 : P17/R109	Name	INS844365
	ID	2341
	Reference	R109
	Designator	
	Part Reference	R109
	Value	16k9
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:311-16.9KHRCT-ND,mfr:Yageo,mpn:RC0603FR-0716K9L,ul:{u}}
	Digi-Key PN	311-16.9KHRCT-ND
	Description	RES SMD 16.9K OHM 1% 1/10W 0603
	Manufacturer PN	RC0603FR-0716K9L
	Manufacturer	Yageo
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P17/R109/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	QEB_OUT
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P17/R109/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N844403
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1079696 : P17/TP55	Name	INS1079696
	ID	8695
	Reference	TP55
	Designator	
	Part Reference	TP55
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P17/TP55/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	nFAULTx
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1079764 : P17/TP53	Name	INS1079764
	ID	8703
	Reference	TP53
	Designator	
	Part Reference	TP53
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P17/TP53/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	PWMxL
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS846304 : P17/C108	Name	INS846304
	ID	2728
	Reference	C108
	Designator	
	Part Reference	C108
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P17/C108/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_5V0
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P17/C108/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS839895 : P17/R106	Name	INS839895
	ID	2344
	Reference	R106
	Designator	
	Part Reference	R106
	Value	10k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-0710KL
	Description	RES SMD 10K OHM 1% 1/10W 0603
	Digi-Key PN	311-10.0KHRCT-ND
	digikey_id	{distributorPn:311-10.0KHRCT-ND,mfr:Yageo,mpn:RC0603FR-0710KL,ul:{uid}}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P17/R106/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P17/R106/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	nFAULTx
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS972939 : P17/R104	Name	INS972939
	ID	3383
	Reference	R104
	Designator	
	Part Reference	R104
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,rpn:ERJ-2RKF33R2X}
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RKF33R2X
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	0402_res_ipc

Object	Property Name	Property Value
1 : P17/R104/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	QEA_IN
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P17/R104/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N843649
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS843790 : P17/R108	Name	INS843790
	ID	2347
	Reference	R108
	Designator	
	Part Reference	R108
	Value	16k9
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:311-16.9KHRCT-ND,mfr:Yageo,mpn:RC0603FR-0716K9L,ul:{u}}
	Digi-Key PN	311-16.9KHRCT-ND
	Description	RES SMD 16.9K OHM 1% 1/10W 0603
	Manufacturer PN	RC0603FR-0716K9L
	Manufacturer	Yageo
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P17/R108/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	QEA_OUT
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P17/R108/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N974265
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS844590 : P17/C109	Name	INS844590
	ID	2350
	Reference	C109
	Designator	
	Part Reference	C109
	Value	100uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Voltage rating	35V
	PCB Footprint	alum_cap_6_6mm
	Manufacturer	Nichicon
	Manufacturer PN	UCL1V101MCL6GS
	Description	CAP ALUM 100UF 20% 35V SMD
	Digi-Key PN	493-3953-1-ND
	digikey_id	{distributorPn:493-3953-1-ND,mfr:Nichicon,mpn:UCL1V101MCL6GS,ul:{u}}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P17/C109/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	VM
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P17/C109/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1000195 : P17/D30	Name	INS1000195
	ID	7311
	Reference	D30
	Designator	
	Part Reference	D30
	Value	TVS 5V0 DL
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	sot23-3
	Manufacturer	ON Semiconductor
	Manufacturer PN	SM05T1G
	Description	TVS DIODE 5V 9.8V SOT23-3
	Digi-Key PN	SM05T1GOSCT-ND
	digikey_id	{distributorPn:SM05T1GOSCT-ND,mfr:ON Semiconductor,mpn:SM05T1G}
	Distributor	
	Distributor PN	

Object	Property Name	Property Value
CA : P17/D30/CA	Name	CA
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
CAT1 : P17/D30/CAT1	Name	CAT1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N846095
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
CAT2 : P17/D30/CAT2	Name	CAT2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N843649
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
INS844269 : P17/C111	Name	INS844269
	ID	2353
	Reference	C111
	Designator	
	Part Reference	C111
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P17/C111/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_5V0
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P17/C111/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS972977 : P17/R105	Name	INS972977
	ID	3401
	Reference	R105
	Designator	
	Part Reference	R105
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,mpn:ERJ-2RKF33R2X}
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RKF33R2X
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	0402_res_ipc

Object	Property Name	Property Value
1 : P17/R105/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	QEB_IN
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P17/R105/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N846095
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1079738 : P17/TP54	Name	INS1079738
	ID	8699
	Reference	TP54
	Designator	
	Part Reference	TP54
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P17/TP54/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	PWMxH
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS843829 : P17/R110	Name	INS843829
	ID	2356
	Reference	R110
	Designator	
	Part Reference	R110
	Value	33k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:311-33.0KHZCT-ND,mfr:Yageo,mpn:RC0603FR-0733KL,ul:uid}
	Digi-Key PN	311-33.0KHZCT-ND
	Description	RES SMD 33K OHM 1% 1/10W 0603
	Manufacturer PN	RC0603FR-0733KL
	Manufacturer	Yageo
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P17/R110/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P17/R110/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	QEA_OUT
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS844297 : P17/U25	Name	INS844297
	ID	2359
	Reference	U25
	Designator	
	Part Reference	U25
	Value	MCP6L91
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:MCP6L91T-E/OTCT-ND,mfr:Microchip Technology,mpn:MCP6L91T-E/OTCT-ND}
	Digi-Key PN	MCP6L91T-E/OTCT-ND
	Description	IC OPAMP GP 1 CIRCUIT SOT23-5
	Manufacturer PN	MCP6L91T-E/OT
	Manufacturer	Microchip Technology
	PCB Footprint	sot23-5
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
OUT : P17/U25/OUT	Name	OUT
	Number	1
	Swap Id	-1
	Type	Power
	Net Name	N844403
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
V- : P17/U25/V-	Name	V-
	Number	2
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
IN+ : P17/U25/IN+	Name	IN+
	Number	3
	Swap Id	-1
	Type	Input
	Net Name	N846095
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
IN- : P17/U25/IN-	Name	IN-
	Number	4
	Swap Id	-1
	Type	Input
	Net Name	N844403
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
V+ : P17/U25/V+	Name	V+
	Number	5
	Swap Id	-1
	Type	Power
	Net Name	DVDD_5V0
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
INS839430 : P17/R107	Name	INS839430
	ID	2365
	Reference	R107
	Designator	
	Part Reference	R107
	Value	200mOhm
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Tolerance	1%
	Manufacturer	Yageo
	Manufacturer PN	RL0805FR-7W0R2L
	Description	RES 0.2 OHM 1% 1/4W 0805
	Digi-Key PN	311-0.2LUCT-ND
	digikey_id	{distributorPn:311-0.2LUCT-ND,mfr:Yageo,mpn:RL0805FR-7W0R2L,ul:{uid:c}}
	Power	1/4W
	PCB Footprint	0805_res_ipc

Object	Property Name	Property Value
1 : P17/R107/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N839657
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P17/R107/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS843358 : P17/C110	Name	INS843358
	ID	2368
	Reference	C110
	Designator	
	Part Reference	C110
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P17/C110/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_5V0
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P17/C110/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS838820 : P17/U23	Name	INS838820
	ID	2371
	Reference	U23
	Designator	
	Part Reference	U23
	Value	DRV8872
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:296-42661-1-ND,mfr:Texas Instruments,mpn:DRV8872DDAR,u
	Digi-Key PN	296-42661-1-ND
	Description	IC MOTOR DRVR UNIPLR 8SO PWRPAD
	Manufacturer PN	DRV8872DDAR
	Manufacturer	Texas Instruments
	PCB Footprint	hsop8-ep
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
GND : P17/U23/GND	Name	GND
	Number	1
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
IN2 : P17/U23/IN2	Name	IN2
	Number	2
	Swap Id	-1
	Type	Input
	Net Name	PWMxH
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
IN1 : P17/U23/IN1	Name	IN1
	Number	3
	Swap Id	-1
	Type	Input
	Net Name	PWMxL
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
FAULT1 : P17/U23/FAULT1	Name	FAULT1
	Number	4
	Swap Id	-1
	Type	Open Collector
	Net Name	nFAULTx
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
VM : P17/U23/VM	Name	VM
	Number	5
	Swap Id	-1
	Type	Power
	Net Name	VM
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
OUT1 : P17/U23/OUT1	Name	OUT1
	Number	6
	Swap Id	-1
	Type	Output
	Net Name	OUTA
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
ISEN : P17/U23/ISEN	Name	ISEN
	Number	7
	Swap Id	-1
	Type	Input
	Net Name	N839657
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
OUT2 : P17/U23/OUT2	Name	OUT2
	Number	8
	Swap Id	-1
	Type	Output
	Net Name	OUTB
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
GND_PAD : P17/U23/GND_PAD	Name	GND_PAD
	Number	9
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	8
	Is No Connect	False

Object	Property Name	Property Value
INS845569 : P17/C112	Name	INS845569
	ID	2381
	Reference	C112
	Designator	
	Part Reference	C112
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Voltage rating	35V
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1uF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P17/C112/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	VM
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P17/C112/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS844413 : P17/R111	Name	INS844413
	ID	2384
	Reference	R111
	Designator	
	Part Reference	R111
	Value	33k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:311-33.0KHRCT-ND,mfr:Yageo,mpn:RC0603FR-0733KL,ul:uid}
	Digi-Key PN	311-33.0KHRCT-ND
	Description	RES SMD 33K OHM 1% 1/10W 0603
	Manufacturer PN	RC0603FR-0733KL
	Manufacturer	Yageo
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P17/R111/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P17/R111/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	QEB_OUT
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
Line	Name	I838747
	Color	Default
	Start X-Coordinate	10
	Start Y-Coordinate	890
	End X-Coordinate	610
	End Y-Coordinate	890

Object	Property Name	Property Value
Resistors are 0603 -1% 1/10W unless otherwise noted	Name	I838741
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	576
	Bounding Box Top	900
	Bounding Box Bottom	919
	Text	Resistors are 0603 -1% 1/10W unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	900
	Font	Courier New

Object	Property Name	Property Value
Capacitor are 0603 -20% 16V unless otherwise noted	Name	I838753
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	565
	Bounding Box Top	920
	Bounding Box Bottom	939
	Text	Capacitor are 0603 -20% 16V unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	920
	Font	Courier New

Object	Property Name	Property Value
Place close to connector	Name	I846667
	Color	Default
	Bounding Box Left	220
	Bounding Box Right	344
	Bounding Box Top	610
	Bounding Box Bottom	636
	Text	Place close to connector
	Text Location X-Coordinate	220
	Text Location Y-Coordinate	610
	Font	Courier New

Object	Property Name	Property Value
Brushed DC motor driver QEI encoder feedback	Name	I1091250
	Color	Default
	Bounding Box Left	1300
	Bounding Box Right	1488
	Bounding Box Top	10
	Bounding Box Bottom	36
	Text	Brushed DC motor driver QEI encoder feedback
	Text Location X-Coordinate	1300
	Text Location Y-Coordinate	10
	Font	Courier New

Object	Property Name	Property Value
Rsen = 0.35V / Imotor 200mOhm = Imotor <= 1.75A p <sub>d</sub> = 153mW	Name	I1091674
	Color	Default
	Bounding Box Left	560
	Bounding Box Right	801
	Bounding Box Top	290
	Bounding Box Bottom	323
	Text	Rsen = 0.35V / Imotor 200mOhm = Imotor <= 1.75A p <sub>d</sub> = 153mW
	Text Location X-Coordinate	560
	Text Location Y-Coordinate	290
	Font	Courier New

Object	Property Name	Property Value
DGND : P18/DGND (Wire ID = 839525 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P18/DGND (Wire ID = 839531 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P18/DGND (Wire ID = 839533 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P18/DGND (Wire ID = 839650 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N839657 : P18/N839657 (Wire ID = 839657 )	Color	Default
	Name	N839657

Object	Property Name	Property Value
nFAULTx : P18/NFAULTx (Wire ID = 840049 )	Color	Default
	Name	NFAULTx

Object	Property Name	Property Value
nFAULTx : P18/NFAULTx (Wire ID = 840051 )	Color	Default
	Name	NFAULTx

Object	Property Name	Property Value
PWMxL : P18/PWMxL (Wire ID = 840056 )	Color	Default
	Name	PWMxL

Object	Property Name	Property Value
PWMxH : P18/PWMxH (Wire ID = 840060 )	Color	Default
	Name	PWMxH

Object	Property Name	Property Value
nFAULTx : P18/NFAULTX (Wire ID = 840121 )	Color	Default
	Name	NFAULTX

Object	Property Name	Property Value
OUTB : P18/OUTB (Wire ID = 840262 )	Color	Default
	Name	OUTB

Object	Property Name	Property Value
DVDD_3V3 : P18/DVDD_3V3 (Wire ID = 841683 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_5V0 : P18/DVDD_5V0 (Wire ID = 842172 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DVDD_5V0 : P18/DVDD_5V0 (Wire ID = 842180 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DGND : P18/DGND (Wire ID = 842278 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
OUTA : P18/OUTA (Wire ID = 842964 )	Color	Default
	Name	OUTA

Object	Property Name	Property Value
DGND : P18/DGND (Wire ID = 843378 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DVDD_5V0 : P18/DVDD_5V0 (Wire ID = 843430 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
N843649 : P18/N843649 (Wire ID = 843649 )	Color	Default
	Name	N843649

Object	Property Name	Property Value
QEA_OUT : P18/QEA_OUT (Wire ID = 843850 )	Color	Default
	Name	QEA_OUT

Object	Property Name	Property Value
QEA_OUT : P18/QEA_OUT (Wire ID = 843852 )	Color	Default
	Name	QEA_OUT

Object	Property Name	Property Value
DGND : P18/DGND (Wire ID = 843874 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
QEA_OUT : P18/QEA_OUT (Wire ID = 843967 )	Color	Default
	Name	QEA_OUT

Object	Property Name	Property Value
DVDD_5V0 : P18/DVDD_5V0 (Wire ID = 844259 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DVDD_5V0 : P18/DVDD_5V0 (Wire ID = 844263 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DVDD_5V0 : P18/DVDD_5V0 (Wire ID = 844267 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DGND : P18/DGND (Wire ID = 844289 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
QEB_OUT : P18/QEB_OUT (Wire ID = 844391 )	Color	Default
	Name	QEB_OUT

Object	Property Name	Property Value
QEB_OUT : P18/QEB_OUT (Wire ID = 844395 )	Color	Default
	Name	QEB_OUT

Object	Property Name	Property Value
QEB_OUT : P18/QEB_OUT (Wire ID = 844399 )	Color	Default
	Name	QEB_OUT

Object	Property Name	Property Value
N844403 : P18/N844403 (Wire ID = 844403 )	Color	Default
	Name	N844403

Object	Property Name	Property Value
N844403 : P18/N844403 (Wire ID = 844409 )	Color	Default
	Name	N844403

Object	Property Name	Property Value
DGND : P18/DGND (Wire ID = 844433 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P18/DGND (Wire ID = 844437 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
VM : P18/VM (Wire ID = 844606 )	Color	Default
	Name	VM

Object	Property Name	Property Value
DGND : P18/DGND (Wire ID = 844628 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
VM : P18/VM (Wire ID = 844650 )	Color	Default
	Name	VM

Object	Property Name	Property Value
VM : P18/VM (Wire ID = 845680 )	Color	Default
	Name	VM

Object	Property Name	Property Value
VM : P18/VM (Wire ID = 845682 )	Color	Default
	Name	VM

Object	Property Name	Property Value
VM : P18/VM (Wire ID = 845700 )	Color	Default
	Name	VM

Object	Property Name	Property Value
DGND : P18/DGND (Wire ID = 845729 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N846095 : P18/N846095 (Wire ID = 846095 )	Color	Default
	Name	N846095

Object	Property Name	Property Value
DGND : P18/DGND (Wire ID = 846324 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DVDD_5V0 : P18/DVDD_5V0 (Wire ID = 846341 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
N843649 : P18/N843649 (Wire ID = 972959 )	Color	Default
	Name	N843649

Object	Property Name	Property Value
N843649 : P18/N843649 (Wire ID = 972963 )	Color	Default
	Name	N843649

Object	Property Name	Property Value
N846095 : P18/N846095 (Wire ID = 972967 )	Color	Default
	Name	N846095

Object	Property Name	Property Value
N846095 : P18/N846095 (Wire ID = 972975 )	Color	Default
	Name	N846095

Object	Property Name	Property Value
QEA_IN : P18/QEA_IN (Wire ID = 973224 )	Color	Default
	Name	QEA_IN

Object	Property Name	Property Value
QEB_IN : P18/QEB_IN (Wire ID = 973228 )	Color	Default
	Name	QEB_IN

Object	Property Name	Property Value
N846095 : P18/N846095 (Wire ID = 973250 )	Color	Default
	Name	N846095

Object	Property Name	Property Value
N846095 : P18/N846095 (Wire ID = 973252 )	Color	Default
	Name	N846095

Object	Property Name	Property Value
DVDD_5V0 : P18/DVDD_5V0 (Wire ID = 974016 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DVDD_5V0 : P18/DVDD_5V0 (Wire ID = 974037 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
N974265 : P18/N974265 (Wire ID = 974265 )	Color	Default
	Name	N974265

Object	Property Name	Property Value
N974265 : P18/N974265 (Wire ID = 974282 )	Color	Default
	Name	N974265

Object	Property Name	Property Value
N974265 : P18/N974265 (Wire ID = 974286 )	Color	Default
	Name	N974265

Object	Property Name	Property Value
N974265 : P18/N974265 (Wire ID = 974292 )	Color	Default
	Name	N974265

Object	Property Name	Property Value
N974265 : P18/N974265 (Wire ID = 974301 )	Color	Default
	Name	N974265

Object	Property Name	Property Value
N974265 : P18/N974265 (Wire ID = 974303 )	Color	Default
	Name	N974265

Object	Property Name	Property Value
N844403 : P18/N844403 (Wire ID = 974337 )	Color	Default
	Name	N844403

Object	Property Name	Property Value
N844403 : P18/N844403 (Wire ID = 974341 )	Color	Default
	Name	N844403

Object	Property Name	Property Value
N844403 : P18/N844403 (Wire ID = 974347 )	Color	Default
	Name	N844403

Object	Property Name	Property Value
N844403 : P18/N844403 (Wire ID = 974356 )	Color	Default
	Name	N844403

Object	Property Name	Property Value
N839657 : P18/N839657 (Wire ID = 997929 )	Color	Default
	Name	N839657

Object	Property Name	Property Value
DGND : P18/DGND (Wire ID = 1000328 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
QEA_OUT : P18/QEA_OUT (Wire ID = 1079646 )	Color	Default
	Name	QEA_OUT

Object	Property Name	Property Value
QEB_OUT : P18/QEB_OUT (Wire ID = 1079681 )	Color	Default
	Name	QEB_OUT

Object	Property Name	Property Value
PWMxL : P18/PWMXL (Wire ID = 1079782 )	Color	Default
	Name	PWMXL

Object	Property Name	Property Value
PWMxL : P18/PWMXL (Wire ID = 1079786 )	Color	Default
	Name	PWMXL

Object	Property Name	Property Value
PWMxH : P18/PWMXH (Wire ID = 1079792 )	Color	Default
	Name	PWMXH

Object	Property Name	Property Value
PWMxH : P18/PWMXH (Wire ID = 1079796 )	Color	Default
	Name	PWMXH

Object	Property Name	Property Value
nFAULTx : P18/NFAULTX (Wire ID = 1079802 )	Color	Default
	Name	NFAULTX

Object	Property Name	Property Value
nFAULTx : P18/NFAULTX (Wire ID = 1079806 )	Color	Default
	Name	NFAULTX

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DVDD_5V0	Name	DVDD_5V0
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DVDD_5V0	Name	DVDD_5V0
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DVDD_5V0	Name	DVDD_5V0
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
PWMxL : P18/PWMxL	Name	PWMxL
	Number	
	Swap Id	-1
	Type	Input
	Net Name	PWM2L
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
PWMxH : P18/PWMxH	Name	PWMxH
	Number	
	Swap Id	-1
	Type	Input
	Net Name	PWM2H
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
nFAULTx : P18/nFAULTx	Name	nFAULTx
	Number	
	Swap Id	-1
	Type	Output
	Net Name	nFAULT2
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
QEA_OUT : P18/QEA_OUT	Name	QEA_OUT
	Number	
	Swap Id	-1
	Type	Output
	Net Name	QEA2
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
QEB_OUT : P18/QEB_OUT	Name	QEB_OUT
	Number	
	Swap Id	-1
	Type	Output
	Net Name	QEB2
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
VM : P18/VM	Name	VM
	Number	
	Swap Id	-1
	Type	Input
	Net Name	VM
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
OUTA : P18/OUTA	Name	OUTA
	Number	
	Swap Id	-1
	Type	Output
	Net Name	DRV2_OUTA
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
OUTB : P18/OUTB	Name	OUTB
	Number	
	Swap Id	-1
	Type	Output
	Net Name	DRV2_OUTB
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
QEA_IN : P18/QEA_IN	Name	QEA_IN
	Number	
	Swap Id	-1
	Type	Input
	Net Name	QEA2_IN
	Order	8
	Is No Connect	False

Object	Property Name	Property Value
QEB_IN : P18/QEB_IN	Name	QEB_IN
	Number	
	Swap Id	-1
	Type	Input
	Net Name	QEB2_IN
	Order	9
	Is No Connect	False

Object	Property Name	Property Value
TitleBlockIntellitrol : P18/TitleBlockIntellitrol	Schematic Page Count	2
	Schematic Page Number	2
	Page Number	15
	Page Count	21
	Path Name	P18/TitleBlockIntellitrol
	Schematic Path	/P18
	ID	8913
	OrgAddr4	
	OrgAddr3	
	OrgAddr2	925 Chemin ste-foy apt4, QC, CANADA
	OrgAddr1	CPI/CEP #6022173
	OrgName	Jean-Francois Bilodeau, B.E.Eng
	Title	Brushed DC motor control with QEI
	Cage Code	
	RevCode	0B
	Doc	
	Name	TitleBlockIntellitrol
	Design Name	DSPEAK-V1_00-0B
	Design File Name	C:\USERS\JEANF\DESKTOP\GIT\DSPEAK\HARDWARE\V1_00-0B\CAPTURE
	Design Create Date	Friday, November 13, 2020
	Design Modify Date	Thursday, March 25, 2021
	Design Create Time	18:59:24
	Design Modify Time	19:51:15
	Schematic Name	Motor driver
	Schematic Create Date	Monday, November 16, 2020
	Schematic Modify Date	Thursday, March 25, 2021
	Schematic Create Time	20:36:14
	Schematic Modify Time	19:44:14
	Page Size	B
	Page Create Date	Monday, November 16, 2020
	Page Modify Date	Thursday, March 25, 2021
	Page Create Time	20:36:13
	Page Modify Time	19:44:13
	Color	Default
	Source Library	C:\USERS\JEANF\GOOGLE DRIVE\ORCAD16LIB\PIECE\PART.OLB
	Source Symbol	TitleBlockIntellitrol
	Page Name	MOTOR DRIVE

Object	Property Name	Property Value
INS1079626 : P18/TP63	Name	INS1079626
	ID	8685
	Reference	TP63
	Designator	
	Part Reference	TP63
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P18/TP63/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	QEA_OUT
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1079661 : P18/TP64	Name	INS1079661
	ID	8689
	Reference	TP64
	Designator	
	Part Reference	TP64
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P18/TP64/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	QEB_OUT
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS842214 : P18/U21	Name	INS842214
	ID	2135
	Reference	U21
	Designator	
	Part Reference	U21
	Value	MCP6L91
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:MCP6L91T-E/OTCT-ND,mfr:Microchip Technology,mpn:MCP6L91T-E/OTCT-ND}
	Digi-Key PN	MCP6L91T-E/OTCT-ND
	Description	IC OPAMP GP 1 CIRCUIT SOT23-5
	Manufacturer PN	MCP6L91T-E/OT
	Manufacturer	Microchip Technology
	PCB Footprint	sot23-5
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
OUT : P18/U21/OUT	Name	OUT
	Number	1
	Swap Id	-1
	Type	Power
	Net Name	N974265
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
V- : P18/U21/V-	Name	V-
	Number	2
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
IN+ : P18/U21/IN+	Name	IN+
	Number	3
	Swap Id	-1
	Type	Input
	Net Name	N843649
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
IN- : P18/U21/IN-	Name	IN-
	Number	4
	Swap Id	-1
	Type	Input
	Net Name	N974265
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
V+ : P18/U21/V+	Name	V+
	Number	5
	Swap Id	-1
	Type	Power
	Net Name	DVDD_5V0
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
INS844365 : P18/R101	Name	INS844365
	ID	2181
	Reference	R101
	Designator	
	Part Reference	R101
	Value	16k9
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:311-16.9KHRCT-ND,mfr:Yageo,mpn:RC0603FR-0716K9L,ul:u}
	Digi-Key PN	311-16.9KHRCT-ND
	Description	RES SMD 16.9K OHM 1% 1/10W 0603
	Manufacturer PN	RC0603FR-0716K9L
	Manufacturer	Yageo
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P18/R101/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	QEB_OUT
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P18/R101/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N844403
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1079696 : P18/TP61	Name	INS1079696
	ID	8693
	Reference	TP61
	Designator	
	Part Reference	TP61
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P18/TP61/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	nFAULTx
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1079764 : P18/TP59	Name	INS1079764
	ID	8701
	Reference	TP59
	Designator	
	Part Reference	TP59
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P18/TP59/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	PWMxL
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS846304 : P18/C103	Name	INS846304
	ID	2725
	Reference	C103
	Designator	
	Part Reference	C103
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P18/C103/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_5V0
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P18/C103/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS839895 : P18/R98	Name	INS839895
	ID	2078
	Reference	R98
	Designator	
	Part Reference	R98
	Value	10k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-0710KL
	Description	RES SMD 10K OHM 1% 1/10W 0603
	Digi-Key PN	311-10.0KHRCT-ND
	digikey_id	{distributorPn:311-10.0KHRCT-ND,mfr:Yageo,mpn:RC0603FR-0710KL,ul:{uid}}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P18/R98/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P18/R98/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	nFAULTx
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS972939 : P18/R96	Name	INS972939
	ID	3380
	Reference	R96
	Designator	
	Part Reference	R96
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,rpn:ERJ-2RKF33R2X}
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RKF33R2X
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	0402_res_ipc

Object	Property Name	Property Value
1 : P18/R96/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	QEA_IN
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P18/R96/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N843649
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS843790 : P18/R100	Name	INS843790
	ID	2164
	Reference	R100
	Designator	
	Part Reference	R100
	Value	16k9
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:311-16.9KHRCT-ND,mfr:Yageo,mpn:RC0603FR-0716K9L,ul:{u}}
	Digi-Key PN	311-16.9KHRCT-ND
	Description	RES SMD 16.9K OHM 1% 1/10W 0603
	Manufacturer PN	RC0603FR-0716K9L
	Manufacturer	Yageo
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P18/R100/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	QEA_OUT
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P18/R100/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N974265
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS844590 : P18/C104	Name	INS844590
	ID	2195
	Reference	C104
	Designator	
	Part Reference	C104
	Value	100uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Voltage rating	35V
	PCB Footprint	alum_cap_6_6mm
	Manufacturer	Nichicon
	Manufacturer PN	UCL1V101MCL6GS
	Description	CAP ALUM 100UF 20% 35V SMD
	Digi-Key PN	493-3953-1-ND
	digikey_id	{distributorPn:493-3953-1-ND,mfr:Nichicon,mpn:UCL1V101MCL6GS,ul:{u}}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P18/C104/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	VM
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P18/C104/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1000195 : P18/D29	Name	INS1000195
	ID	7307
	Reference	D29
	Designator	
	Part Reference	D29
	Value	TVS 5V0 DL
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	sot23-3
	Manufacturer	ON Semiconductor
	Manufacturer PN	SM05T1G
	Description	TVS DIODE 5V 9.8V SOT23-3
	Digi-Key PN	SM05T1GOSCT-ND
	digikey_id	{distributorPn:SM05T1GOSCT-ND,mfr:ON Semiconductor,mpn:SM05T1G}
	Distributor	
	Distributor PN	

Object	Property Name	Property Value
CA : P18/D29/CA	Name	CA
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
CAT1 : P18/D29/CAT1	Name	CAT1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N846095
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
CAT2 : P18/D29/CAT2	Name	CAT2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N843649
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
INS844269 : P18/C106	Name	INS844269
	ID	2178
	Reference	C106
	Designator	
	Part Reference	C106
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P18/C106/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_5V0
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P18/C106/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS972977 : P18/R97	Name	INS972977
	ID	3398
	Reference	R97
	Designator	
	Part Reference	R97
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,mpn:ERJ-2RKF33R2X}
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RKF33R2X
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	0402_res_ipc

Object	Property Name	Property Value
1 : P18/R97/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	QEB_IN
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P18/R97/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N846095
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1079738 : P18/TP60	Name	INS1079738
	ID	8697
	Reference	TP60
	Designator	
	Part Reference	TP60
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P18/TP60/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	PWMxH
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS843829 : P18/R102	Name	INS843829
	ID	2167
	Reference	R102
	Designator	
	Part Reference	R102
	Value	33k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:311-33.0KHZCT-ND,mfr:Yageo,mpn:RC0603FR-0733KL,ul:uid}
	Digi-Key PN	311-33.0KHZCT-ND
	Description	RES SMD 33K OHM 1% 1/10W 0603
	Manufacturer PN	RC0603FR-0733KL
	Manufacturer	Yageo
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P18/R102/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P18/R102/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	QEA_OUT
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS844297 : P18/U22	Name	INS844297
	ID	2184
	Reference	U22
	Designator	
	Part Reference	U22
	Value	MCP6L91
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:MCP6L91T-E/OTCT-ND,mfr:Microchip Technology,mpn:MCP6L91T-E/OTCT-ND}
	Digi-Key PN	MCP6L91T-E/OTCT-ND
	Description	IC OPAMP GP 1 CIRCUIT SOT23-5
	Manufacturer PN	MCP6L91T-E/OT
	Manufacturer	Microchip Technology
	PCB Footprint	sot23-5
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
OUT : P18/U22/OUT	Name	OUT
	Number	1
	Swap Id	-1
	Type	Power
	Net Name	N844403
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
V- : P18/U22/V-	Name	V-
	Number	2
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
IN+ : P18/U22/IN+	Name	IN+
	Number	3
	Swap Id	-1
	Type	Input
	Net Name	N846095
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
IN- : P18/U22/IN-	Name	IN-
	Number	4
	Swap Id	-1
	Type	Input
	Net Name	N844403
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
V+ : P18/U22/V+	Name	V+
	Number	5
	Swap Id	-1
	Type	Power
	Net Name	DVDD_5V0
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
INS839430 : P18/R99	Name	INS839430
	ID	2053
	Reference	R99
	Designator	
	Part Reference	R99
	Value	200mOhm
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Tolerance	1%
	Manufacturer	Yageo
	Manufacturer PN	RL0805FR-7W0R2L
	Description	RES 0.2 OHM 1% 1/4W 0805
	Digi-Key PN	311-0.2LUCT-ND
	digikey_id	{distributorPn:311-0.2LUCT-ND,mfr:Yageo,mpn:RL0805FR-7W0R2L,ul:{uid:c}}
	Power	1/4W
	PCB Footprint	0805_res_ipc

Object	Property Name	Property Value
1 : P18/R99/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N839657
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P18/R99/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS843358 : P18/C105	Name	INS843358
	ID	2154
	Reference	C105
	Designator	
	Part Reference	C105
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P18/C105/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_5V0
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P18/C105/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS838820 : P18/U20	Name	INS838820
	ID	2030
	Reference	U20
	Designator	
	Part Reference	U20
	Value	DRV8872
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:296-42661-1-ND,mfr:Texas Instruments,mpn:DRV8872DDAR,u
	Digi-Key PN	296-42661-1-ND
	Description	IC MOTOR DRVR UNIPLR 8SO PWRPAD
	Manufacturer PN	DRV8872DDAR
	Manufacturer	Texas Instruments
	PCB Footprint	hsop8-ep
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
GND : P18/U20/GND	Name	GND
	Number	1
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
IN2 : P18/U20/IN2	Name	IN2
	Number	2
	Swap Id	-1
	Type	Input
	Net Name	PWMxH
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
IN1 : P18/U20/IN1	Name	IN1
	Number	3
	Swap Id	-1
	Type	Input
	Net Name	PWMxL
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
FAULT1 : P18/U20/FAULT1	Name	FAULT1
	Number	4
	Swap Id	-1
	Type	Open Collector
	Net Name	nFAULTx
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
VM : P18/U20/VM	Name	VM
	Number	5
	Swap Id	-1
	Type	Power
	Net Name	VM
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
OUT1 : P18/U20/OUT1	Name	OUT1
	Number	6
	Swap Id	-1
	Type	Output
	Net Name	OUTA
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
ISEN : P18/U20/ISEN	Name	ISEN
	Number	7
	Swap Id	-1
	Type	Input
	Net Name	N839657
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
OUT2 : P18/U20/OUT2	Name	OUT2
	Number	8
	Swap Id	-1
	Type	Output
	Net Name	OUTB
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
GND_PAD : P18/U20/GND_PAD	Name	GND_PAD
	Number	9
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	8
	Is No Connect	False

Object	Property Name	Property Value
INS845569 : P18/C107	Name	INS845569
	ID	2201
	Reference	C107
	Designator	
	Part Reference	C107
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Voltage rating	35V
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P18/C107/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	VM
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P18/C107/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS844413 : P18/R103	Name	INS844413
	ID	2175
	Reference	R103
	Designator	
	Part Reference	R103
	Value	33k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:311-33.0KHRCT-ND,mfr:Yageo,mpn:RC0603FR-0733KL,ul:uid}
	Digi-Key PN	311-33.0KHRCT-ND
	Description	RES SMD 33K OHM 1% 1/10W 0603
	Manufacturer PN	RC0603FR-0733KL
	Manufacturer	Yageo
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P18/R103/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P18/R103/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	QEB_OUT
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
Line	Name	I1027383
	Color	Default
	Start X-Coordinate	10
	Start Y-Coordinate	890
	End X-Coordinate	590
	End Y-Coordinate	890

Object	Property Name	Property Value
Vin = 12V Iin = 4A	Name	I1016025
	Color	Default
	Bounding Box Left	100
	Bounding Box Right	223
	Bounding Box Top	20
	Bounding Box Bottom	62
	Text	Vin = 12V Iin = 4A
	Text Location X-Coordinate	100
	Text Location Y-Coordinate	20
	Font	Courier New

Object	Property Name	Property Value
SRN8040TA-4R7M	Name	I1016031
	Color	Default
	Bounding Box Left	670
	Bounding Box Right	742
	Bounding Box Top	60
	Bounding Box Bottom	69
	Text	SRN8040TA-4R7M
	Text Location X-Coordinate	670
	Text Location Y-Coordinate	60
	Font	Courier New

Object	Property Name	Property Value
Capacitor are 0603 -20% 16V unless otherwise noted	Name	I1027371
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	565
	Bounding Box Top	920
	Bounding Box Bottom	939
	Text	Capacitor are 0603 -20% 16V unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	920
	Font	Courier New

Object	Property Name	Property Value
Resistors are 0603 -1% 1/10W unless otherwise noted	Name	I1027377
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	576
	Bounding Box Top	900
	Bounding Box Bottom	919
	Text	Resistors are 0603 -1% 1/10W unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	900
	Font	Courier New

Object	Property Name	Property Value
SRN8040TA-560M	Name	I1028559
	Color	Default
	Bounding Box Left	670
	Bounding Box Right	742
	Bounding Box Top	380
	Bounding Box Bottom	389
	Text	SRN8040TA-560M
	Text Location X-Coordinate	670
	Text Location Y-Coordinate	380
	Font	Courier New

Object	Property Name	Property Value
Power good 5V0	Name	I1032456
	Color	Default
	Bounding Box Left	1050
	Bounding Box Right	1151
	Bounding Box Top	800
	Bounding Box Bottom	811
	Text	Power good 5V0
	Text Location X-Coordinate	1050
	Text Location Y-Coordinate	800
	Font	Courier New

Object	Property Name	Property Value
>= 30V 5A	Name	I1056459
	Color	Default
	Bounding Box Left	100
	Bounding Box Right	166
	Bounding Box Top	120
	Bounding Box Bottom	131
	Text	>= 30V 5A
	Text Location X-Coordinate	100
	Text Location Y-Coordinate	120
	Font	Courier New

Object	Property Name	Property Value
Power good 3V3	Name	I1060342
	Color	Default
	Bounding Box Left	930
	Bounding Box Right	1031
	Bounding Box Top	800
	Bounding Box Bottom	811
	Text	Power good 3V3
	Text Location X-Coordinate	930
	Text Location Y-Coordinate	800
	Font	Courier New

Object	Property Name	Property Value
Vout = 3.3V Nominal Iout = 2.02A max Pd ~ 400mW	Name	I1061140
	Color	Default
	Bounding Box Left	940
	Bounding Box Right	1096
	Bounding Box Top	30
	Bounding Box Bottom	69
	Text	Vout = 3.3V Nominal Iout = 2.02A max Pd ~ 400mW
	Text Location X-Coordinate	940
	Text Location Y-Coordinate	30
	Font	Courier New

Object	Property Name	Property Value
Vout = 5.0V Nominal Iout = 1.9A max Pd ~ 380mW	Name	I1061148
	Color	Default
	Bounding Box Left	940
	Bounding Box Right	1096
	Bounding Box Top	350
	Bounding Box Bottom	389
	Text	Vout = 5.0V Nominal Iout = 1.9A max Pd ~ 380mW
	Text Location X-Coordinate	940
	Text Location Y-Coordinate	350
	Font	Courier New

Object	Property Name	Property Value
Vout = 1.8V Nominal Iout = 20mA max Pd ~ 30mW	Name	I1061156
	Color	Default
	Bounding Box Left	400
	Bounding Box Right	556
	Bounding Box Top	620
	Bounding Box Bottom	659
	Text	Vout = 1.8V Nominal Iout = 20mA max Pd ~ 30mW
	Text Location X-Coordinate	400
	Text Location Y-Coordinate	620
	Font	Courier New

Object	Property Name	Property Value
Power regulators Buck -> LDO 12V-5V2-5V0 12V-3V5	Name	I1091244
	Color	Default
	Bounding Box Left	1360
	Bounding Box Right	1492
	Bounding Box Top	10
	Bounding Box Bottom	75
	Text	Power regulators Buck -> LDO 12V-5V2-5V0 12V-3V5
	Text Location X-Coordinate	1360
	Text Location Y-Coordinate	10
	Font	Courier New

Object	Property Name	Property Value
12V : P31/12V (Wire ID = 1016131 )	Color	Default
	Name	12V

Object	Property Name	Property Value
DVDD_3V3 : P31/DVDD_3V3 (Wire ID = 1016135 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
POW_IN : P31/POW_IN (Wire ID = 1016307 )	Color	Default
	Name	POW_IN

Object	Property Name	Property Value
12V : P31/12V (Wire ID = 1016311 )	Color	Default
	Name	12V

Object	Property Name	Property Value
12V : P31/12V (Wire ID = 1016341 )	Color	Default
	Name	12V

Object	Property Name	Property Value
12V : P31/12V (Wire ID = 1016345 )	Color	Default
	Name	12V

Object	Property Name	Property Value
12V : P31/12V (Wire ID = 1016353 )	Color	Default
	Name	12V

Object	Property Name	Property Value
12V : P31/12V (Wire ID = 1016357 )	Color	Default
	Name	12V

Object	Property Name	Property Value
N1016369 : P31/N1016369 (Wire ID = 1016369 )	Color	Default
	Name	N1016369

Object	Property Name	Property Value
N1016373 : P31/N1016373 (Wire ID = 1016373 )	Color	Default
	Name	N1016373

Object	Property Name	Property Value
N1016377 : P31/N1016377 (Wire ID = 1016377 )	Color	Default
	Name	N1016377

Object	Property Name	Property Value
N1016377 : P31/N1016377 (Wire ID = 1016381 )	Color	Default
	Name	N1016377

Object	Property Name	Property Value
N1016377 : P31/N1016377 (Wire ID = 1016385 )	Color	Default
	Name	N1016377

Object	Property Name	Property Value
DVDD_3V5 : P31/DVDD_3V5 (Wire ID = 1016389 )	Color	Default
	Name	DVDD_3V5

Object	Property Name	Property Value
DVDD_3V5 : P31/DVDD_3V5 (Wire ID = 1016393 )	Color	Default
	Name	DVDD_3V5

Object	Property Name	Property Value
DVDD_3V5 : P31/DVDD_3V5 (Wire ID = 1016397 )	Color	Default
	Name	DVDD_3V5

Object	Property Name	Property Value
DVDD_3V5 : P31/DVDD_3V5 (Wire ID = 1016409 )	Color	Default
	Name	DVDD_3V5

Object	Property Name	Property Value
N1016377 : P31/N1016377 (Wire ID = 1016459 )	Color	Default
	Name	N1016377

Object	Property Name	Property Value
DGND : P31/DGND (Wire ID = 1016515 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N1016519 : P31/N1016519 (Wire ID = 1016519 )	Color	Default
	Name	N1016519

Object	Property Name	Property Value
N1016519 : P31/N1016519 (Wire ID = 1016531 )	Color	Default
	Name	N1016519

Object	Property Name	Property Value
N1016519 : P31/N1016519 (Wire ID = 1016535 )	Color	Default
	Name	N1016519

Object	Property Name	Property Value
DVDD_3V5 : P31/DVDD_3V5 (Wire ID = 1016539 )	Color	Default
	Name	DVDD_3V5

Object	Property Name	Property Value
DGND : P31/DGND (Wire ID = 1016707 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P31/DGND (Wire ID = 1016711 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P31/DGND (Wire ID = 1016723 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P31/DGND (Wire ID = 1016727 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P31/DGND (Wire ID = 1016775 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DVDD_1V8 : P31/DVDD_1V8 (Wire ID = 1020955 )	Color	Default
	Name	DVDD_1V8

Object	Property Name	Property Value
DVDD_3V3 : P31/DVDD_3V3 (Wire ID = 1021023 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P31/DVDD_3V3 (Wire ID = 1021027 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P31/DVDD_3V3 (Wire ID = 1021031 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P31/DVDD_3V3 (Wire ID = 1021035 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P31/DVDD_3V3 (Wire ID = 1021039 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P31/DVDD_3V3 (Wire ID = 1021043 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_1V8 : P31/DVDD_1V8 (Wire ID = 1021047 )	Color	Default
	Name	DVDD_1V8

Object	Property Name	Property Value
DVDD_1V8 : P31/DVDD_1V8 (Wire ID = 1021051 )	Color	Default
	Name	DVDD_1V8

Object	Property Name	Property Value
DVDD_1V8 : P31/DVDD_1V8 (Wire ID = 1021055 )	Color	Default
	Name	DVDD_1V8

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DVDD_1V8 : P31/DVDD_1V8 (Wire ID = 1021059 )	Color	Default
	Name	DVDD_1V8

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DVDD_3V3 : P31/DVDD_3V3 (Wire ID = 1021063 )	Color	Default
	Name	DVDD_3V3

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : P31/DGND (Wire ID = 1021139 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : P31/DGND (Wire ID = 1021143 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N1021147 : P31/N1021147 (Wire ID = 1021147 )	Color	Default
	Name	N1021147

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N1021147 : P31/N1021147 (Wire ID = 1021151 )	Color	Default
	Name	N1021147

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : P31/DGND (Wire ID = 1021155 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : P31/DGND (Wire ID = 1021159 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : P31/DGND (Wire ID = 1021163 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N1021147 : P31/N1021147 (Wire ID = 1021185 )	Color	Default
	Name	N1021147

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N1021147 : P31/N1021147 (Wire ID = 1021189 )	Color	Default
	Name	N1021147

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N1021147 : P31/N1021147 (Wire ID = 1021193 )	Color	Default
	Name	N1021147

Object	Property Name	Property Value
N1021147 : P31/N1021147 (Wire ID = 1021197 )	Color	Default
	Name	N1021147

Object	Property Name	Property Value
DGND : P31/DGND (Wire ID = 1021237 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P31/DGND (Wire ID = 1021241 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DVDD_3V5 : P31/DVDD_3V5 (Wire ID = 1022908 )	Color	Default
	Name	DVDD_3V5

Object	Property Name	Property Value
DGND : P31/DGND (Wire ID = 1025372 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P31/DGND (Wire ID = 1025471 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P31/DGND (Wire ID = 1025501 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DVDD_3V5 : P31/DVDD_3V5 (Wire ID = 1025526 )	Color	Default
	Name	DVDD_3V5

Object	Property Name	Property Value
DVDD_3V5 : P31/DVDD_3V5 (Wire ID = 1025541 )	Color	Default
	Name	DVDD_3V5

Object	Property Name	Property Value
DVDD_3V5 : P31/DVDD_3V5 (Wire ID = 1025545 )	Color	Default
	Name	DVDD_3V5

Object	Property Name	Property Value
DVDD_3V5 : P31/DVDD_3V5 (Wire ID = 1025549 )	Color	Default
	Name	DVDD_3V5

Object	Property Name	Property Value
DGND : P31/DGND (Wire ID = 1025650 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DVDD_3V5 : P31/DVDD_3V5 (Wire ID = 1025707 )	Color	Default
	Name	DVDD_3V5

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DVDD_3V5 : P31/DVDD_3V5 (Wire ID = 1025711 )	Color	Default
	Name	DVDD_3V5

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DVDD_3V3 : P31/DVDD_3V3 (Wire ID = 1026166 )	Color	Default
	Name	DVDD_3V3

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N1026188 : P31/N1026188 (Wire ID = 1026188 )	Color	Default
	Name	N1026188

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N1026188 : P31/N1026188 (Wire ID = 1026192 )	Color	Default
	Name	N1026188

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N1026188 : P31/N1026188 (Wire ID = 1026196 )	Color	Default
	Name	N1026188

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N1026188 : P31/N1026188 (Wire ID = 1026204 )	Color	Default
	Name	N1026188

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N1026188 : P31/N1026188 (Wire ID = 1026208 )	Color	Default
	Name	N1026188

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : P31/DGND (Wire ID = 1026252 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DVDD_3V3 : P31/DVDD_3V3 (Wire ID = 1026352 )	Color	Default
	Name	DVDD_3V3

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DVDD_3V3 : P31/DVDD_3V3 (Wire ID = 1026357 )	Color	Default
	Name	DVDD_3V3

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DVDD_3V5 : P31/DVDD_3V5 (Wire ID = 1026975 )	Color	Default
	Name	DVDD_3V5

Object	Property Name	Property Value
DVDD_3V5 : P31/DVDD_3V5 (Wire ID = 1026979 )	Color	Default
	Name	DVDD_3V5

Object	Property Name	Property Value
DVDD_5V2 : P31/DVDD_5V2 (Wire ID = 1028597 )	Color	Default
	Name	DVDD_5V2

Object	Property Name	Property Value
DVDD_5V0 : P31/DVDD_5V0 (Wire ID = 1028601 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
12V : P31/12V (Wire ID = 1028893 )	Color	Default
	Name	12V

Object	Property Name	Property Value
12V : P31/12V (Wire ID = 1028905 )	Color	Default
	Name	12V

Object	Property Name	Property Value
12V : P31/12V (Wire ID = 1028909 )	Color	Default
	Name	12V

Object	Property Name	Property Value
12V : P31/12V (Wire ID = 1028917 )	Color	Default
	Name	12V

Object	Property Name	Property Value
12V : P31/12V (Wire ID = 1028921 )	Color	Default
	Name	12V

Object	Property Name	Property Value
N1028933 : P31/N1028933 (Wire ID = 1028933 )	Color	Default
	Name	N1028933

Object	Property Name	Property Value
N1028937 : P31/N1028937 (Wire ID = 1028937 )	Color	Default
	Name	N1028937

Object	Property Name	Property Value
N1028941 : P31/N1028941 (Wire ID = 1028941 )	Color	Default
	Name	N1028941

Object	Property Name	Property Value
N1028945 : P31/N1028945 (Wire ID = 1028945 )	Color	Default
	Name	N1028945

Object	Property Name	Property Value
N1028941 : P31/N1028941 (Wire ID = 1028949 )	Color	Default
	Name	N1028941

Object	Property Name	Property Value
DVDD_5V2 : P31/DVDD_5V2 (Wire ID = 1028953 )	Color	Default
	Name	DVDD_5V2

Object	Property Name	Property Value
DVDD_5V2 : P31/DVDD_5V2 (Wire ID = 1028957 )	Color	Default
	Name	DVDD_5V2

Object	Property Name	Property Value
DVDD_5V2 : P31/DVDD_5V2 (Wire ID = 1028961 )	Color	Default
	Name	DVDD_5V2

Object	Property Name	Property Value
DVDD_5V2 : P31/DVDD_5V2 (Wire ID = 1028969 )	Color	Default
	Name	DVDD_5V2

Object	Property Name	Property Value
DVDD_5V2 : P31/DVDD_5V2 (Wire ID = 1028981 )	Color	Default
	Name	DVDD_5V2

Object	Property Name	Property Value
DVDD_5V2 : P31/DVDD_5V2 (Wire ID = 1028985 )	Color	Default
	Name	DVDD_5V2

Object	Property Name	Property Value
DVDD_5V2 : P31/DVDD_5V2 (Wire ID = 1028989 )	Color	Default
	Name	DVDD_5V2

Object	Property Name	Property Value
DVDD_5V2 : P31/DVDD_5V2 (Wire ID = 1028993 )	Color	Default
	Name	DVDD_5V2

Object	Property Name	Property Value
DVDD_5V2 : P31/DVDD_5V2 (Wire ID = 1028997 )	Color	Default
	Name	DVDD_5V2

Object	Property Name	Property Value
DVDD_5V0 : P31/DVDD_5V0 (Wire ID = 1029001 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DVDD_5V0 : P31/DVDD_5V0 (Wire ID = 1029005 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
N1028941 : P31/N1028941 (Wire ID = 1029051 )	Color	Default
	Name	N1028941

Object	Property Name	Property Value
DVDD_5V2 : P31/DVDD_5V2 (Wire ID = 1029055 )	Color	Default
	Name	DVDD_5V2

Object	Property Name	Property Value
DGND : P31/DGND (Wire ID = 1029095 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N1029099 : P31/N1029099 (Wire ID = 1029099 )	Color	Default
	Name	N1029099

Object	Property Name	Property Value
N1029099 : P31/N1029099 (Wire ID = 1029103 )	Color	Default
	Name	N1029099

Object	Property Name	Property Value
N1029099 : P31/N1029099 (Wire ID = 1029107 )	Color	Default
	Name	N1029099

Object	Property Name	Property Value
DVDD_5V2 : P31/DVDD_5V2 (Wire ID = 1029111 )	Color	Default
	Name	DVDD_5V2

Object	Property Name	Property Value
DVDD_5V2 : P31/DVDD_5V2 (Wire ID = 1029115 )	Color	Default
	Name	DVDD_5V2

Object	Property Name	Property Value
DGND : P31/DGND (Wire ID = 1029123 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P31/DGND (Wire ID = 1029127 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N1029131 : P31/N1029131 (Wire ID = 1029131 )	Color	Default
	Name	N1029131

Object	Property Name	Property Value
N1029131 : P31/N1029131 (Wire ID = 1029135 )	Color	Default
	Name	N1029131

Object	Property Name	Property Value
N1029131 : P31/N1029131 (Wire ID = 1029151 )	Color	Default
	Name	N1029131

Object	Property Name	Property Value
N1029131 : P31/N1029131 (Wire ID = 1029177 )	Color	Default
	Name	N1029131

Object	Property Name	Property Value
N1029131 : P31/N1029131 (Wire ID = 1029181 )	Color	Default
	Name	N1029131

Object	Property Name	Property Value
DGND : P31/DGND (Wire ID = 1029329 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P31/DGND (Wire ID = 1029373 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P31/DGND (Wire ID = 1029377 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P31/DGND (Wire ID = 1029405 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P31/DGND (Wire ID = 1029409 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P31/DGND (Wire ID = 1029417 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P31/DGND (Wire ID = 1029421 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P31/DGND (Wire ID = 1029499 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
12V : P31/12V (Wire ID = 1030553 )	Color	Default
	Name	12V

Object	Property Name	Property Value
12V : P31/12V (Wire ID = 1030635 )	Color	Default
	Name	12V

Object	Property Name	Property Value
12V : P31/12V (Wire ID = 1030739 )	Color	Default
	Name	12V

Object	Property Name	Property Value
DGND : P31/DGND (Wire ID = 1030882 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N1032268 : P31/N1032268 (Wire ID = 1032268 )	Color	Default
	Name	N1032268

Object	Property Name	Property Value
N1032500 : P31/N1032500 (Wire ID = 1032500 )	Color	Default
	Name	N1032500

Object	Property Name	Property Value
DVDD_3V3 : P31/DVDD_3V3 (Wire ID = 1032654 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_5V0 : P31/DVDD_5V0 (Wire ID = 1032725 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DGND : P31/DGND (Wire ID = 1033362 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P31/DGND (Wire ID = 1033366 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P31/DGND (Wire ID = 1039458 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DVDD_3V3 : P31/DVDD_3V3 (Wire ID = 1039513 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P31/DVDD_3V3 (Wire ID = 1039545 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_5V0 : P31/DVDD_5V0 (Wire ID = 1039636 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DGND : P31/DGND (Wire ID = 1039658 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DVDD_5V0 : P31/DVDD_5V0 (Wire ID = 1039718 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DVDD_3V5 : P31/DVDD_3V5 (Wire ID = 1092075 )	Color	Default
	Name	DVDD_3V5

Object	Property Name	Property Value
DVDD_3V3 : P31/DVDD_3V3 (Wire ID = 1092171 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P31/DVDD_3V3 (Wire ID = 1092175 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_5V2 : P31/DVDD_5V2 (Wire ID = 1092273 )	Color	Default
	Name	DVDD_5V2

Object	Property Name	Property Value
DVDD_5V0 : P31/DVDD_5V0 (Wire ID = 1092277 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DVDD_5V0 : P31/DVDD_5V0 (Wire ID = 1092281 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DVDD_5V2 : P31/DVDD_5V2 (Wire ID = 1092285 )	Color	Default
	Name	DVDD_5V2

Object	Property Name	Property Value
DVDD_1V8 : P31/DVDD_1V8 (Wire ID = 1092354 )	Color	Default
	Name	DVDD_1V8

Object	Property Name	Property Value
DVDD_1V8 : P31/DVDD_1V8 (Wire ID = 1092358 )	Color	Default
	Name	DVDD_1V8

Object	Property Name	Property Value
DGND : P31/DGND (Wire ID = 1092754 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P31/DGND (Wire ID = 1092807 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P31/DGND (Wire ID = 1092867 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P31/DGND (Wire ID = 1092928 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P31/DGND (Wire ID = 1093277 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P31/DGND (Wire ID = 1093281 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P31/DGND (Wire ID = 1093285 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P31/DGND (Wire ID = 1093289 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DVDD_3V5 : P31/DVDD_3V5 (Wire ID = 1128602 )	Color	Default
	Name	DVDD_3V5

Object	Property Name	Property Value
DVDD_5V2 : P31/DVDD_5V2 (Wire ID = 1128649 )	Color	Default
	Name	DVDD_5V2

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
12V	Name	12V
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DVDD_3V5	Name	DVDD_3V5
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default
Object	Property Name	Property Value
DVDD_5V2	Name	DVDD_5V2
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default
Object	Property Name	Property Value
DVDD_5V0	Name	DVDD_5V0
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default
Object	Property Name	Property Value
DVDD_1V8	Name	DVDD_1V8
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default
Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default
Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default
Object	Property Name	Property Value
DVDD_5V0	Name	DVDD_5V0
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default
Object	Property Name	Property Value
POW_IN : P31/POW_IN	Name	POW_IN
	Number	
	Swap Id	-1
	Type	Input
	Net Name	N1403399
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
TitleBlockIntellitrol : P31/TitleBlockIntellitrol	Schematic Page Count	1
	Schematic Page Number	1
	Page Number	16
	Page Count	21
	Path Name	P31/TitleBlockIntellitrol
	Schematic Path	/P31
	ID	8915
	OrgAddr4	
	OrgAddr3	
	OrgAddr2	925 Chemin ste-foy apt4, QC, CANADA
	OrgAddr1	CPI/CEP #6022173
	OrgName	Jean-Francois Bilodeau, B.E.Eng
	Title	Power supply
	Cage Code	
	RevCode	0B
	Doc	
	Name	TitleBlockIntellitrol
	Design Name	DSPEAK-V1_00-0B
	Design File Name	C:\USERS\JEANF\DESKTOP\GIT\DSPEAK\HARDWA
	Design Create Date	Friday, November 13, 2020
	Design Modify Date	Thursday, March 25, 2021
	Design Create Time	18:59:24
	Design Modify Time	19:51:15
	Schematic Name	POWER SUPPLY
	Schematic Create Date	Tuesday, December 15, 2020
	Schematic Modify Date	Thursday, March 25, 2021
	Schematic Create Time	17:06:06
	Schematic Modify Time	19:43:42
	Page Size	B
	Page Create Date	Tuesday, December 15, 2020
	Page Modify Date	Thursday, March 25, 2021
	Page Create Time	17:06:29
	Page Modify Time	19:43:40
	Color	Default
	Source Library	C:\USERS\JEANF\GOOGLE DRIVE\ORCAD16LIB\PIECE\PART.OLB
	Source Symbol	TitleBlockIntellitrol
	Page Name	Power Supply

Object	Property Name	Property Value
INS1029255 : P31/C150	Name	INS1029255
	ID	8260
	Reference	C150
	Designator	
	Part Reference	C150
	Value	22uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:1276-2909-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL21A226MOQNNNE}
	Digi-Key PN	1276-2909-1-ND
	Description	CAP CER 22UF 16V X5R 0805
	Manufacturer PN	CL21A226MOQNNNE
	Manufacturer	Samsung Electro-Mechanics
	PCB Footprint	1206_cap
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P31/C150/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P31/C150/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_5V2
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1029153 : P31/R163	Name	INS1029153
	ID	8263
	Reference	R163
	Designator	
	Part Reference	R163
	Value	10k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Tolerance	0.5%
	PCB Footprint	0603_res_ipc
	Manufacturer	Yageo
	Manufacturer PN	RT0603DRE0710KL
	Description	RES SMD 10K OHM 0.5% 1/10W 0603
	Digi-Key PN	YAG2318CT-ND
	digikey_id	{distributorPn:YAG2318CT-ND,mfr:Yageo,mpn:RT0603DRE0710KL,ul:{uid:aft}}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P31/R163/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N1029099
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P31/R163/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1039438 : P31/C159	Name	INS1039438
	ID	8451
	Reference	C159
	Designator	
	Part Reference	C159
	Value	10uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL21A106KOQNNNG
	Description	CAP CER 10UF 16V X5R 0805
	Digi-Key PN	1276-6455-1-ND
	digikey_id	{distributorPn:1276-6455-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL21A106KOQNNNG}
	PCB Footprint	1206_cap
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P31/C159/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P31/C159/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1016251 : P31/R151	Name	INS1016251
	ID	8266
	Reference	R151
	Designator	
	Part Reference	R151
	Value	30R0
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-0730RL
	Description	RES SMD 30 OHM 1% 1/10W 0603
	Digi-Key PN	311-30.0HRCT-ND
	digikey_id	{distributorPn:311-30.0HRCT-ND,mfr:Yageo,mpn:RC0603FR-0730RL,ul:(uid:311-30.0HRCT-ND)}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P31/R151/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N1016369
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P31/R151/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N1016373
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1029273 : P31/C151	Name	INS1029273
	ID	8269
	Reference	C151
	Designator	
	Part Reference	C151
	Value	22uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL21A226MOQNNNE
	Description	CAP CER 22UF 16V X5R 0805
	Digi-Key PN	1276-2909-1-ND
	digikey_id	{distributorPn:1276-2909-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL21A226MOQNNNE}
	PCB Footprint	1206_cap
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P31/C151/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P31/C151/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_5V2
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1028729 : P31/R159	Name	INS1028729
	ID	8272
	Reference	R159
	Designator	
	Part Reference	R159
	Value	30R0
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_jpc
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-0730RL
	Description	RES SMD 30 OHM 1% 1/10W 0603
	Digi-Key PN	311-30.0HRCT-ND
	digikey_id	{distributorPn:311-30.0HRCT-ND,mfr:Yageo,mpn:RC0603FR-0730RL,ul:(uid:90000000000000000000000000000000)}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P31/R159/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N1028933
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P31/R159/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N1028937
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1092649 : P31/TP85	Name	INS1092649
	ID	8801
	Reference	TP85
	Designator	
	Part Reference	TP85
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P31/TP85/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1032248 : P31/R167	Name	INS1032248
	ID	8275
	Reference	R167
	Designator	
	Part Reference	R167
	Value	120R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:311-4.70KHRDKR-ND,mfr:Yageo,mpn:RC0603FR-074K7L,ul:u}
	Digi-Key PN	311-4.70KHRDKR-ND
	Description	RES SMD 4.7K OHM 1% 1/10W 0603
	Manufacturer PN	RC0603FR-074K7L
	Manufacturer	Yageo
	PCB Footprint	0603_res_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P31/R167/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P31/R167/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N1032268
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1032520 : P31/D56	Name	INS1032520
	ID	8278
	Reference	D56
	Designator	
	Part Reference	D56
	Value	LED
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	dio_0603
	Manufacturer	Würth Elektronik
	Manufacturer PN	150060GS75000
	Description	LED GREEN CLEAR 0603 SMD
	Digi-Key PN	732-4971-1-ND
	digikey_id	{distributorPn:732-4971-1-ND,mfr:Würth Elektronik,mpn:150060GS75000}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
ANODE : P31/D56/ANODE	Name	ANODE
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N1032500
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
CATHODE : P31/D56/CATHODE	Name	CATHODE
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1021199 : P31/R171	Name	INS1021199
	ID	8281
	Reference	R171
	Designator	
	Part Reference	R171
	Value	1Meg
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:RMCF0603FT1M00CT-ND,mfr:Stackpole Electronics Inc,mpn:RMCF0603FT1M00CT-ND}
	Digi-Key PN	RMCF0603FT1M00CT-ND
	Description	RES 1M OHM 1% 1/10W 0603
	Manufacturer PN	RMCF0603FT1M00
	Manufacturer	Stackpole Electronics Inc
	PCB Footprint	0603_res_jpc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P31/R171/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P31/R171/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N1021147
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1030685 : P31/C147	Name	INS1030685
	ID	8284
	Reference	C147
	Designator	
	Part Reference	C147
	Value	100uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Voltage rating	35V
	PCB Footprint	alum_cap_6_6mm
	Manufacturer	Nichicon
	Manufacturer PN	UCL1V101MCL6GS
	Description	CAP ALUM 100uF 20% 35V SMD
	Digi-Key PN	493-3953-1-ND
	digikey_id	{distributorPn:493-3953-1-ND,mfr:Nichicon,mpn:UCL1V101MCL6GS,ul:{uid:8284}}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P31/C147/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	12V
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P31/C147/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1028747 : P31/C146	Name	INS1028747
	ID	8287
	Reference	C146
	Designator	
	Part Reference	C146
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P31/C146/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N1028941
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P31/C146/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N1028937
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1016575 : P31/C141	Name	INS1016575
	ID	8290
	Reference	C141
	Designator	
	Part Reference	C141
	Value	22uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:1276-2909-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL21A226MOQNNNE}
	Digi-Key PN	1276-2909-1-ND
	Description	CAP CER 22uF 16V X5R 0805
	Manufacturer PN	CL21A226MOQNNNE
	Manufacturer	Samsung Electro-Mechanics
	PCB Footprint	1206_cap
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P31/C141/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P31/C141/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V5
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1016269 : P31/C132	Name	INS1016269
	ID	8293
	Reference	C132
	Designator	
	Part Reference	C132
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P31/C132/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N1016377
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P31/C132/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N1016373
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1028765 : P31/L4	Name	INS1028765
	ID	8299
	Reference	L4
	Designator	
	Part Reference	L4
	Value	5.6uH
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:SRN8040TA-5R6MCT-ND,mfr:Bourns Inc.,mpn:SRN8040TA-5R6M}
	Digi-Key PN	SRN8040TA-5R6MCT-ND
	Description	FIXED IND 5.6UH 5.4A 22 MOHM SMD
	Manufacturer PN	SRN8040TA-5R6M
	Manufacturer	Bourns Inc.
	PCB Footprint	SRN8040TA
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P31/L4/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N1028941
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P31/L4/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_5V2
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1021379 : P31/D25	Name	INS1021379
	ID	8302
	Reference	D25
	Designator	
	Part Reference	D25
	Value	Schottky
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	do-214aa
	Manufacturer	STMicroelectronics
	Manufacturer PN	STPS5L60U
	Description	DIODE SCHOTTKY 60V 5A SMB
	Digi-Key PN	497-16321-1-ND
	digikey_id	{distributorPn:497-16321-1-ND,mfr:STMicroelectronics,mpn:STPS5L60U}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
ANODE : P31/D25/ANODE	Name	ANODE
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	POW_IN
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
CATHODE : P31/D25/CATHODE	Name	CATHODE
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	12V
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1093195 : P31/TP86	Name	INS1093195
	ID	8803
	Reference	TP86
	Designator	
	Part Reference	TP86
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P31/TP86/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1028783 : P31/U41	Name	INS1028783
	ID	8311
	Reference	U41
	Designator	
	Part Reference	U41
	Value	TPS7A7002
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Manufacturer	Texas Instruments
	Manufacturer PN	TPS7A7002DDA
	Description	IC REG LIN POS ADJ 3A 8SO PWRRPAD
	Digi-Key PN	296-39506-5-ND
	digikey_id	{distributorPn:296-39506-5-ND,mfr:Texas Instruments,mpn:TPS7A7002DDA,partNumber:TPS7A7002}
	PCB Footprint	PG-DSO-8
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
NC1 : P31/U41/NC1	Name	NC1
	Number	1
	Swap Id	-1
	Type	Input
	Net Name	
	Order	0
	Is No Connect	True

Object	Property Name	Property Value
EN : P31/U41/EN	Name	EN
	Number	2
	Swap Id	-1
	Type	Input
	Net Name	DVDD_5V2
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
IN : P31/U41/IN	Name	IN
	Number	3
	Swap Id	-1
	Type	Input
	Net Name	DVDD_5V2
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
NC2 : P31/U41/NC2	Name	NC2
	Number	4
	Swap Id	-1
	Type	Input
	Net Name	
	Order	3
	Is No Connect	True

Object	Property Name	Property Value
NC3 : P31/U41/NC3	Name	NC3
	Number	5
	Swap Id	-1
	Type	Input
	Net Name	
	Order	4
	Is No Connect	True

Object	Property Name	Property Value
OUT : P31/U41/OUT	Name	OUT
	Number	6
	Swap Id	-1
	Type	Power
	Net Name	DVDD_5V0
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
FB : P31/U41/FB	Name	FB
	Number	7
	Swap Id	-1
	Type	Input
	Net Name	N1029131
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
GND : P31/U41/GND	Name	GND
	Number	8
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
PAD : P31/U41/PAD	Name	PAD
	Number	9
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	8
	Is No Connect	False

Object	Property Name	Property Value
INS1016593 : P31/C142	Name	INS1016593
	ID	8321
	Reference	C142
	Designator	
	Part Reference	C142
	Value	22uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:1276-2909-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL21A226MOQNNNE}
	Digi-Key PN	1276-2909-1-ND
	Description	CAP CER 22UF 16V X5R 0805
	Manufacturer PN	CL21A226MOQNNNE
	Manufacturer	Samsung Electro-Mechanics
	PCB Footprint	1206_cap
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P31/C142/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P31/C142/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V5
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1016287 : P31/L3	Name	INS1016287
	ID	8324
	Reference	L3
	Designator	
	Part Reference	L3
	Value	4.7uH
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:587-2978-1-ND,mfr:Taiyo Yuden,mpn:NRS8040T4R7NJGJ,ul:(u)}
	Digi-Key PN	587-2978-1-ND
	Description	FIXED IND 4.7UH 4.1A 23.4 MOHM
	Manufacturer PN	NRS8040T4R7NJGJ
	Manufacturer	Taiyo Yuden
	PCB Footprint	SRN8040TA
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P31/L3/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N1016377
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P31/L3/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V5
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1029309 : P31/C153	Name	INS1029309
	ID	8327
	Reference	C153
	Designator	
	Part Reference	C153
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B1
	Digi-Key PN	1276-1000-1-ND
	Description	CAP CER 0.1UF 50V X7R 0603
	Manufacturer PN	CL10B104KB8NNNC
	Manufacturer	Samsung Electro-Mechanics
	PCB Footprint	0603_cap_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P31/C153/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P31/C153/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_5V2
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1021217 : P31/C158	Name	INS1021217
	ID	8330
	Reference	C158
	Designator	
	Part Reference	C158
	Value	1nF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	AVX Corporation
	Manufacturer PN	06035C102KAT2A
	Description	CAP CER 1000PF 50V X7R 0603
	Digi-Key PN	478-1215-1-ND
	digikey_id	{distributorPn:478-1215-1-ND,mfr:AVX Corporation,mpn:06035C102KAT2A,u
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P31/C158/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P31/C158/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N1021147
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1021065 : P31/R165	Name	INS1021065
	ID	8333
	Reference	R165
	Designator	
	Part Reference	R165
	Value	499k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:RMCF0603FT499KCT-ND,mfr:Stackpole Electronics Inc,mpn:R
	Digi-Key PN	RMCF0603FT499KCT-ND
	Description	RES 499K OHM 1% 1/10W 0603
	Manufacturer PN	RMCF0603FT499K
	Manufacturer	Stackpole Electronics Inc
	PCB Footprint	0603_res_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P31/R165/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N1021147
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P31/R165/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_1V8
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1021083 : P31/C156	Name	INS1021083
	ID	8336
	Reference	C156
	Designator	
	Part Reference	C156
	Value	1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B105MO8NNWC
	Description	CAP CER 1UF 16V X7R 0603
	Digi-Key PN	1276-6524-1-ND
	digikey_id	{distributorPn:1276-6524-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B105MO8NNWC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P31/C156/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P31/C156/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1016647 : P31/C133	Name	INS1016647
	ID	8342
	Reference	C133
	Designator	
	Part Reference	C133
	Value	22uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:445-14428-1-ND,mfr:TDK Corporation,mpn:C2012X5R1V226M125AC}
	Digi-Key PN	445-14428-1-ND
	Description	CAP CER 22UF 35V X5R 0805
	Manufacturer PN	C2012X5R1V226M125AC
	Manufacturer	TDK Corporation
	Voltage rating	35V
	PCB Footprint	1206_cap
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P31/C133/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P31/C133/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	12V
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1029057 : P31/R161	Name	INS1029057
	ID	8348
	Reference	R161
	Designator	
	Part Reference	R161
	Value	274k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-07274KL
	Description	RES SMD 274K OHM 1% 1/10W 0603
	Digi-Key PN	311-274KHRCT-ND
	digikey_id	{distributorPn:311-274KHRCT-ND,mfr:Yageo,mpn:RC0603FR-07274KL,ul:(uid)}
	PCB Footprint	0603_res_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P31/R161/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N1029131
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P31/R161/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_5V0
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1032270 : P31/D54	Name	INS1032270
	ID	8351
	Reference	D54
	Designator	
	Part Reference	D54
	Value	LED
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	dio_0603
	Manufacturer	Würth Elektronik
	Manufacturer PN	150060GS75000
	Description	LED GREEN CLEAR 0603 SMD
	Digi-Key PN	732-4971-1-ND
	digikey_id	{distributorPn:732-4971-1-ND,mfr:Würth Elektronik,mpn:150060GS75000}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
ANODE : P31/D54/ANODE	Name	ANODE
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N1032268
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
CATHODE : P31/D54/CATHODE	Name	CATHODE
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1025131 : P31/U40	Name	INS1025131
	ID	8354
	Reference	U40
	Designator	
	Part Reference	U40
	Value	TPS7A7002
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Manufacturer	Texas Instruments
	Manufacturer PN	TPS7A7002DDA
	Description	IC REG LIN POS ADJ 3A 8SO PWRRPAD
	Digi-Key PN	296-39506-5-ND
	digikey_id	{distributorPn:296-39506-5-ND,mfr:Texas Instruments,mpn:TPS7A7002DDA,partNumber:TPS7A7002DDA}
	PCB Footprint	PG-DSO-8
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
NC1 : P31/U40/NC1	Name	NC1
	Number	1
	Swap Id	-1
	Type	Input
	Net Name	
	Order	0
	Is No Connect	True

Object	Property Name	Property Value
EN : P31/U40/EN	Name	EN
	Number	2
	Swap Id	-1
	Type	Input
	Net Name	DVDD_3V5
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
IN : P31/U40/IN	Name	IN
	Number	3
	Swap Id	-1
	Type	Input
	Net Name	DVDD_3V5
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
NC2 : P31/U40/NC2	Name	NC2
	Number	4
	Swap Id	-1
	Type	Input
	Net Name	
	Order	3
	Is No Connect	True

Object	Property Name	Property Value
NC3 : P31/U40/NC3	Name	NC3
	Number	5
	Swap Id	-1
	Type	Input
	Net Name	
	Order	4
	Is No Connect	True

Object	Property Name	Property Value
OUT : P31/U40/OUT	Name	OUT
	Number	6
	Swap Id	-1
	Type	Power
	Net Name	DVDD_3V3
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
FB : P31/U40/FB	Name	FB
	Number	7
	Swap Id	-1
	Type	Input
	Net Name	N1026188
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
GND : P31/U40/GND	Name	GND
	Number	8
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
PAD : P31/U40/PAD	Name	PAD
	Number	9
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	8
	Is No Connect	False

Object	Property Name	Property Value
INS1021101 : P31/C157	Name	INS1021101
	ID	8364
	Reference	C157
	Designator	
	Part Reference	C157
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P31/C157/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P31/C157/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1093215 : P31/TP87	Name	INS1093215
	ID	8805
	Reference	TP87
	Designator	
	Part Reference	TP87
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P31/TP87/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1029075 : P31/R160	Name	INS1029075
	ID	8367
	Reference	R160
	Designator	
	Part Reference	R160
	Value	56k3
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:RNCF0603DTE56K2CT-ND,mfr:Stackpole Electronics Inc,mpn:RNCF0603DTE56K2}
	Digi-Key PN	RNCF0603DTE56K2CT-ND
	Description	RES 56.2 OHM 0.5% 1/10W 0603
	Manufacturer PN	RNCF0603DTE56K2
	Manufacturer	Stackpole Electronics Inc
	Tolerance	0.5%
	PCB Footprint	0603_res_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P31/R160/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N1029099
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P31/R160/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_5V2
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1020957 : P31/U39	Name	INS1020957
	ID	8370
	Reference	U39
	Designator	
	Part Reference	U39
	Value	TC107X
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	sot23-5
	Manufacturer	Microchip Technology
	Manufacturer PN	TC1071VCT713
	Description	IC REG LIN POS ADJ 100MA SOT23-5
	Digi-Key PN	TC1071VCT713CT-ND
	digikey_id	{distributorPn:TC1071VCT713CT-ND,mfr:Microchip Technology,mpn:TC1071V
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
VIN : P31/U39/VIN	Name	VIN
	Number	1
	Swap Id	-1
	Type	Power
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
GND : P31/U39/GND	Name	GND
	Number	2
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
SIHDIN\ : P31/U39/SIHDIN\	Name	SIHDIN\
	Number	3
	Swap Id	-1
	Type	Input
	Net Name	DVDD_3V3
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
ADJ : P31/U39/ADJ	Name	ADJ
	Number	4
	Swap Id	-1
	Type	Input
	Net Name	N1021147
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
VOUT : P31/U39/VOUT	Name	VOUT
	Number	5
	Swap Id	-1
	Type	Power
	Net Name	DVDD_1V8
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
INS1016495 : P31/R153	Name	INS1016495
	ID	8379
	Reference	R153
	Designator	
	Part Reference	R153
	Value	34k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Tolerance	0.5%
	PCB Footprint	0603_res_ipc
	Manufacturer	Stackpole Electronics Inc
	Manufacturer PN	RNCF0603DTE34K0
	Description	RES 34K OHM 0.5% 1/10W 0603
	Digi-Key PN	RNCF0603DTE34K0CT-ND
	digikey_id	{distributorPn:RNCF0603DTE34K0CT-ND,mfr:Stackpole Electronics Inc,mpn:RNCF0603DTE34K0}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P31/R153/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N1016519
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P31/R153/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V5
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1092043 : P31/TP77	Name	INS1092043
	ID	8785
	Reference	TP77
	Designator	
	Part Reference	TP77
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P31/TP77/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V5
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1092332 : P31/TP81	Name	INS1092332
	ID	8793
	Reference	TP81
	Designator	
	Part Reference	TP81
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P31/TP81/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_1V8
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1026168 : P31/R154	Name	INS1026168
	ID	8385
	Reference	R154
	Designator	
	Part Reference	R154
	Value	169k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Manufacturer	Yageo
	Manufacturer PN	RT0603DRD07169KL
	Description	RES SMD 169K OHM 0.5% 1/10W 0603
	Digi-Key PN	311-2345-1-ND
	digikey_id	{distributorPn:311-2345-1-ND,mfr:Yageo,mpn:RT0603DRD07169KL,ul:{uid:a}}
	PCB Footprint	0603_res_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P31/R154/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N1026188
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P31/R154/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1016665 : P31/C140	Name	INS1016665
	ID	8388
	Reference	C140
	Designator	
	Part Reference	C140
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B1
	Digi-Key PN	1276-1000-1-ND
	Description	CAP CER 0.1UF 50V X7R 0603
	Manufacturer PN	CL10B104KB8NNNC
	Manufacturer	Samsung Electro-Mechanics
	Voltage rating	35V
	PCB Footprint	0603_cap_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P31/C140/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P31/C140/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	12V
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1092605 : P31/TP84	Name	INS1092605
	ID	8799
	Reference	TP84
	Designator	
	Part Reference	TP84
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P31/TP84/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1053607 : P31/C148	Name	INS1053607
	ID	8757
	Reference	C148
	Designator	
	Part Reference	C148
	Value	22uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:445-14428-1-ND,mfr:TDK Corporation,mpn:C2012X5R1V226M125AC}
	Digi-Key PN	445-14428-1-ND
	Description	CAP CER 22uF 35V X5R 0805
	Manufacturer PN	C2012X5R1V226M125AC
	Manufacturer	TDK Corporation
	Voltage rating	35V
	PCB Footprint	1206_cap
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P31/C148/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P31/C148/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	12V
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1032476 : P31/R169	Name	INS1032476
	ID	8394
	Reference	R169
	Designator	
	Part Reference	R169
	Value	180R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:311-180HRCT-ND,mfr:Yageo,mpn:RC0603FR-07180RL,ul:{uid:311-180HRCT-ND}}
	Digi-Key PN	311-180HRCT-ND
	Description	RES SMD 180 OHM 1% 1/10W 0603
	Manufacturer PN	RC0603FR-07180RL
	Manufacturer	Yageo
	PCB Footprint	0603_res_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P31/R169/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_5V0
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P31/R169/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N1032500
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1092231 : P31/TP79	Name	INS1092231
	ID	8791
	Reference	TP79
	Designator	
	Part Reference	TP79
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P31/TP79/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_5V2
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1025626 : P31/C144	Name	INS1025626
	ID	8400
	Reference	C144
	Designator	
	Part Reference	C144
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B1
	Digi-Key PN	1276-1000-1-ND
	Description	CAP CER 0.1UF 50V X7R 0603
	Manufacturer PN	CL10B104KB8NNNC
	Manufacturer	Samsung Electro-Mechanics
	PCB Footprint	0603_cap_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P31/C144/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P31/C144/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V5
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1029349 : P31/R164	Name	INS1029349
	ID	8403
	Reference	R164
	Designator	
	Part Reference	R164
	Value	30k1
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:311-30.1KHRCT-ND,mfr:Yageo,mpn:RC0603FR-0730K1L,ul:{u}}
	Digi-Key PN	311-30.1KHRCT-ND
	Description	RES SMD 30.1K OHM 1% 1/10W 0603
	Manufacturer PN	RC0603FR-0730K1L
	Manufacturer	Yageo
	PCB Footprint	0603_res_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P31/R164/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P31/R164/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N1029131
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1093235 : P31/TP88	Name	INS1093235
	ID	8807
	Reference	TP88
	Designator	
	Part Reference	TP88
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P31/TP88/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1092573 : P31/TP83	Name	INS1092573
	ID	8797
	Reference	TP83
	Designator	
	Part Reference	TP83
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P31/TP83/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1016177 : P31/U37	Name	INS1016177
	ID	8406
	Reference	U37
	Designator	
	Part Reference	U37
	Value	TPS56339
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:296-53568-1-ND,mfr:Texas Instruments,mpn:TPS56339DDCR}
	Digi-Key PN	296-53568-1-ND
	Description	PWR MGMT SPECIALIZED REGULATOR
	Manufacturer PN	TPS56339DDCR
	Manufacturer	Texas Instruments
	PCB Footprint	sot23-6
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
GND : P31/U37/GND	Name	GND
	Number	1
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
SW : P31/U37/SW	Name	SW
	Number	2
	Swap Id	-1
	Type	Power
	Net Name	N1016377
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
VIN : P31/U37/VIN	Name	VIN
	Number	3
	Swap Id	-1
	Type	Power
	Net Name	12V
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
FB : P31/U37/FB	Name	FB
	Number	4
	Swap Id	-1
	Type	Input
	Net Name	N1016519
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
EN : P31/U37/EN	Name	EN
	Number	5
	Swap Id	-1
	Type	Input
	Net Name	
	Order	4
	Is No Connect	True

Object	Property Name	Property Value
BOOT : P31/U37/BOOT	Name	BOOT
	Number	6
	Swap Id	-1
	Type	Power
	Net Name	N1016369
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
INS1028655 : P31/U38	Name	INS1028655
	ID	8416
	Reference	U38
	Designator	
	Part Reference	U38
	Value	TPS56339
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:296-53568-1-ND,mfr:Texas Instruments,mpn:TPS56339DDCR,partNumber:TPS56339DDCR}
	Digi-Key PN	296-53568-1-ND
	Description	PWR MGMT SPECIALIZED REGULATOR
	Manufacturer PN	TPS56339DDCR
	Manufacturer	Texas Instruments
	PCB Footprint	sot23-6
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
GND : P31/U38/GND	Name	GND
	Number	1
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
SW : P31/U38/SW	Name	SW
	Number	2
	Swap Id	-1
	Type	Power
	Net Name	N1028941
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
VIN : P31/U38/VIN	Name	VIN
	Number	3
	Swap Id	-1
	Type	Power
	Net Name	12V
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
FB : P31/U38/FB	Name	FB
	Number	4
	Swap Id	-1
	Type	Input
	Net Name	N1029099
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
EN : P31/U38/EN	Name	EN
	Number	5
	Swap Id	-1
	Type	Input
	Net Name	
	Order	4
	Is No Connect	True

Object	Property Name	Property Value
BOOT : P31/U38/BOOT	Name	BOOT
	Number	6
	Swap Id	-1
	Type	Power
	Net Name	N1028933
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
INS1092251 : P31/TP80	Name	INS1092251
	ID	8789
	Reference	TP80
	Designator	
	Part Reference	TP80
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P31/TP80/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_5V0
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1093255 : P31/TP89	Name	INS1093255
	ID	8809
	Reference	TP89
	Designator	
	Part Reference	TP89
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P31/TP89/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1092541 : P31/TP82	Name	INS1092541
	ID	8795
	Reference	TP82
	Designator	
	Part Reference	TP82
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P31/TP82/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1016687 : P31/R156	Name	INS1016687
	ID	8426
	Reference	R156
	Designator	
	Part Reference	R156
	Value	10k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Tolerance	0.5%
	PCB Footprint	0603_res_ipc
	Manufacturer	Yageo
	Manufacturer PN	RT0603DRE0710KL
	Description	RES SMD 10K OHM 0.5% 1/10W 0603
	Digi-Key PN	YAG2318CT-ND
	digikey_id	{distributorPn:YAG2318CT-ND,mfr:Yageo,mpn:RT0603DRE0710KL,ul:{uid:a}}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P31/R156/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N1016519
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P31/R156/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1039638 : P31/C160	Name	INS1039638
	ID	8454
	Reference	C160
	Designator	
	Part Reference	C160
	Value	10uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL21A106KOQNNNG
	Description	CAP CER 10UF 16V X5R 0805
	Digi-Key PN	1276-6455-1-ND
	digikey_id	{distributorPn:1276-6455-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL21A106KOQNNNG}
	PCB Footprint	1206_cap
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P31/C160/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P31/C160/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_5V0
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1092151 : P31/TP78	Name	INS1092151
	ID	8787
	Reference	TP78
	Designator	
	Part Reference	TP78
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P31/TP78/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1044858 : P31/C155	Name	INS1044858
	ID	8531
	Reference	C155
	Designator	
	Part Reference	C155
	Value	1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B105MO8NNWC
	Description	CAP CER 1UF 16V X7R 0603
	Digi-Key PN	1276-6524-1-ND
	digikey_id	{distributorPn:1276-6524-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B105MO8NNWC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P31/C155/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P31/C155/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_1V8
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1029219 : P31/C149	Name	INS1029219
	ID	8435
	Reference	C149
	Designator	
	Part Reference	C149
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B1
	Digi-Key PN	1276-1000-1-ND
	Description	CAP CER 0.1UF 50V X7R 0603
	Manufacturer PN	CL10B104KB8NNNC
	Manufacturer	Samsung Electro-Mechanics
	Voltage rating	35V
	PCB Footprint	0603_cap_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P31/C149/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P31/C149/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	12V
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1026228 : P31/R157	Name	INS1026228
	ID	8441
	Reference	R157
	Designator	
	Part Reference	R157
	Value	30k1
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-0730K1L
	Description	RES SMD 30.1K OHM 1% 1/10W 0603
	Digi-Key PN	311-30.1KHRCT-ND
	digikey_id	{distributorPn:311-30.1KHRCT-ND,mfr:Yageo,mpn:RC0603FR-0730K1L,ul:(u)}
	PCB Footprint	0603_res_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P31/R157/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P31/R157/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N1026188
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
Line	Name	I997581
	Color	Default
	Start X-Coordinate	10
	Start Y-Coordinate	650
	End X-Coordinate	510
	End Y-Coordinate	650

Object	Property Name	Property Value
Riverdi EVE interface	Name	I994452
	Color	Default
	Bounding Box Left	130
	Bounding Box Right	143
	Bounding Box Top	230
	Bounding Box Bottom	402
	Text	Riverdi EVE interface
	Text Location X-Coordinate	130
	Text Location Y-Coordinate	230
	Font	Courier New

Object	Property Name	Property Value
Capacitor are 0603 -20% 16V unless otherwise noted	Name	I997569
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	515
	Bounding Box Top	680
	Bounding Box Bottom	696
	Text	Capacitor are 0603 -20% 16V unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	680
	Font	Courier New

Object	Property Name	Property Value
Resistors are 0603 -1% 1/10W unless otherwise noted	Name	I997575
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	525
	Bounding Box Top	660
	Bounding Box Bottom	676
	Text	Resistors are 0603 -1% 1/10W unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	660
	Font	Courier New

Object	Property Name	Property Value
BT8XX : DNP FT8XX : 0R	Name	I999997
	Color	Default
	Bounding Box Left	230
	Bounding Box Right	322
	Bounding Box Top	320
	Bounding Box Bottom	346
	Text	BT8XX : DNP FT8XX : 0R
	Text Location X-Coordinate	230
	Text Location Y-Coordinate	320
	Font	Courier New

Object	Property Name	Property Value
Riverdi EVE TFT Interface with FT/BT8xx	Name	I1088871
	Color	Default
	Bounding Box Left	750
	Bounding Box Right	938
	Bounding Box Top	10
	Bounding Box Bottom	36
	Text	Riverdi EVE TFT Interface with FT/BT8xx
	Text Location X-Coordinate	750
	Text Location Y-Coordinate	10
	Font	Courier New

Object	Property Name	Property Value
DVDD_3V3 : P12/DVDD_3V3 (Wire ID = 994522 )	Color	Default
DVDD_3V3 : P12/DVDD_3V3 (Wire ID = 994522 )	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P12/DVDD_3V3 (Wire ID = 994526 )	Color	Default
DVDD_3V3 : P12/DVDD_3V3 (Wire ID = 994526 )	Name	DVDD_3V3

Object	Property Name	Property Value
DGND : P12/DGND (Wire ID = 994530 )	Color	Default
DGND : P12/DGND (Wire ID = 994530 )	Name	DGND

Object	Property Name	Property Value
DGND : P12/DGND (Wire ID = 994538 )	Color	Default
DGND : P12/DGND (Wire ID = 994538 )	Name	DGND

Object	Property Name	Property Value
SPI_SCLK : P12/SPI_SCLK (Wire ID = 994542 )	Color	Default
SPI_SCLK : P12/SPI_SCLK (Wire ID = 994542 )	Name	SPI_SCLK

Object	Property Name	Property Value
N994548 : P12/N994548 (Wire ID = 994548 )	Color	Default
N994548 : P12/N994548 (Wire ID = 994548 )	Name	N994548

Object	Property Name	Property Value
SPI_MOSI : P12/SPI_MOSI (Wire ID = 994554 )	Color	Default
SPI_MOSI : P12/SPI_MOSI (Wire ID = 994554 )	Name	SPI_MOSI

Object	Property Name	Property Value
SPI_nCS : P12/SPI_NCS (Wire ID = 994560 )	Color	Default
SPI_nCS : P12/SPI_NCS (Wire ID = 994560 )	Name	SPI_NCS

Object	Property Name	Property Value
FT8XX_nINT : P12/FT8XX_NINT (Wire ID = 994566 )	Color	Default
	Name	FT8XX_NINT

Object	Property Name	Property Value
FT8XX_nPD : P12/FT8XX_NPD (Wire ID = 994572 )	Color	Default
	Name	FT8XX_NPD

Object	Property Name	Property Value
DVDD_3V3 : P12/DVDD_3V3 (Wire ID = 994586 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P12/DVDD_3V3 (Wire ID = 994590 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P12/DVDD_3V3 (Wire ID = 994594 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P12/DVDD_3V3 (Wire ID = 994598 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P12/DVDD_3V3 (Wire ID = 994602 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P12/DVDD_3V3 (Wire ID = 994606 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P12/DVDD_3V3 (Wire ID = 994610 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DGND : P12/DGND (Wire ID = 994614 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P12/DGND (Wire ID = 994622 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P12/DGND (Wire ID = 994626 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : P12/DGND (Wire ID = 994630 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : P12/DGND (Wire ID = 994634 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : P12/DGND (Wire ID = 994674 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : P12/DGND (Wire ID = 994678 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : P12/DGND (Wire ID = 994682 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : P12/DGND (Wire ID = 994686 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
SPI_MISO : P12/SPI_MISO (Wire ID = 994911 )	Color	Default
	Name	SPI_MISO

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : P12/DGND (Wire ID = 995996 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
FT8XX_nPD : P12/FT8XX_NPD (Wire ID = 996583 )	Color	Default
	Name	FT8XX_NPD

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
FT8XX_nPD : P12/FT8XX_NPD (Wire ID = 996587 )	Color	Default
	Name	FT8XX_NPD

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
FT8XX_nINT : P12/FT8XX_NINT (Wire ID = 996593 )	Color	Default
	Name	FT8XX_NINT

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
FT8XX_nINT : P12/FT8XX_NINT (Wire ID = 996597 )	Color	Default
	Name	FT8XX_NINT

Object	Property Name	Property Value
SPI_nCS : P12/SPI_NCS (Wire ID = 996603 )	Color	Default
	Name	SPI_NCS

Object	Property Name	Property Value
SPI_nCS : P12/SPI_NCS (Wire ID = 996607 )	Color	Default
	Name	SPI_NCS

Object	Property Name	Property Value
SPI_MOSI : P12/SPI_MOSI (Wire ID = 996613 )	Color	Default
	Name	SPI_MOSI

Object	Property Name	Property Value
SPI_MOSI : P12/SPI_MOSI (Wire ID = 996617 )	Color	Default
	Name	SPI_MOSI

Object	Property Name	Property Value
N994548 : P12/N994548 (Wire ID = 996623 )	Color	Default
	Name	N994548

Object	Property Name	Property Value
N994548 : P12/N994548 (Wire ID = 996627 )	Color	Default
	Name	N994548

Object	Property Name	Property Value
SPI_SCLK : P12/SPI_SCLK (Wire ID = 996633 )	Color	Default
	Name	SPI_SCLK

Object	Property Name	Property Value
SPI_SCLK : P12/SPI_SCLK (Wire ID = 996637 )	Color	Default
	Name	SPI_SCLK

Object	Property Name	Property Value
DGND : P12/DGND (Wire ID = 999472 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N999500 : P12/N999500 (Wire ID = 999500 )	Color	Default
	Name	N999500

Object	Property Name	Property Value
DGND : P12/DGND (Wire ID = 999545 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P12/DGND (Wire ID = 999547 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P12/DGND (Wire ID = 1001245 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P12/DGND (Wire ID = 1001368 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
SPI_SCLK : P12/SPI_SCLK (Wire ID = 1089257 )	Color	Default
	Name	SPI_SCLK

Object	Property Name	Property Value
SPI_SCLK : P12/SPI_SCLK (Wire ID = 1089261 )	Color	Default
	Name	SPI_SCLK

Object	Property Name	Property Value
N994548 : P12/N994548 (Wire ID = 1089269 )	Color	Default
	Name	N994548

Object	Property Name	Property Value
N994548 : P12/N994548 (Wire ID = 1089273 )	Color	Default
	Name	N994548

Object	Property Name	Property Value
SPI_MOSI : P12/SPI_MOSI (Wire ID = 1089281 )	Color	Default
	Name	SPI_MOSI

Object	Property Name	Property Value
SPI_MOSI : P12/SPI_MOSI (Wire ID = 1089285 )	Color	Default
	Name	SPI_MOSI

Object	Property Name	Property Value
SPI_nCS : P12/SPI_NCS (Wire ID = 1089293 )	Color	Default
	Name	SPI_NCS

Object	Property Name	Property Value
SPI_nCS : P12/SPI_NCS (Wire ID = 1089297 )	Color	Default
	Name	SPI_NCS

Object	Property Name	Property Value
FT8XX_nINT : P12/FT8XX_NINT (Wire ID = 1089305 )	Color	Default
	Name	FT8XX_NINT

Object	Property Name	Property Value
FT8XX_nINT : P12/FT8XX_NINT (Wire ID = 1089309 )	Color	Default
	Name	FT8XX_NINT

Object	Property Name	Property Value
FT8XX_nPD : P12/FT8XX_NPD (Wire ID = 1089317)	Color	Default
	Name	FT8XX_NPD

Object	Property Name	Property Value
FT8XX_nPD : P12/FT8XX_NPD (Wire ID = 1089321)	Color	Default
	Name	FT8XX_NPD

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
SPI_MOSI : P12/SPI_MOSI	Name	SPI_MOSI
	Number	
	Swap Id	-1
	Type	Input
	Net Name	SPI1_MOSI
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
SPI_SCLK : P12/SPI_SCLK	Name	SPI_SCLK
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	SPI1_SCLK
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
SPI_nCS : P12/SPI_nCS	Name	SPI_nCS
	Number	
	Swap Id	-1
	Type	Input
	Net Name	SPI1_nCS
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
SPI_MISO : P12/SPI_MISO	Name	SPI_MISO
	Number	
	Swap Id	-1
	Type	Output
	Net Name	SPI1_MISO
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
FT8XX_nINT : P12/FT8XX_nINT	Name	FT8XX_nINT
	Number	
	Swap Id	-1
	Type	Output
	Net Name	FT8XX_nINT
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
FT8XX_nPD : P12/FT8XX_nPD	Name	FT8XX_nPD
	Number	
	Swap Id	-1
	Type	Input
	Net Name	FT8XX_nPD
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
TitleBlockIntellitrol : P12/TitleBlockIntellitrol	Schematic Page Count	1
	Schematic Page Number	1
	Page Number	17
	Page Count	21
	Path Name	P12/TitleBlockIntellitrol
	Schematic Path	/P12
	ID	8916
	Doc	
	RevCode	0B
	Cage Code	
	Title	Riverdi TFT LCD EVE interface
	OrgName	Jean-Francois Bilodeau, B.E.Eng
	OrgAddr1	CPI/CEP #6022173
	OrgAddr2	925 Chemin ste-foy apt4, QC, CANADA
	OrgAddr3	
	OrgAddr4	
	Name	TitleBlockIntellitrol
	Design Name	DSPEAK-V1_00-0B
	Design File Name	C:\USERS\JEANF\DESKTOP\GIT\DSPEAK\HARDWARE\V1_00-0B\CAPTURE
	Design Create Date	Friday, November 13, 2020
	Design Modify Date	Thursday, March 25, 2021
	Design Create Time	18:59:24
	Design Modify Time	19:51:15
	Schematic Name	RIVERDI FT8XX
	Schematic Create Date	Sunday, November 22, 2020
	Schematic Modify Date	Thursday, March 25, 2021
	Schematic Create Time	08:20:46
	Schematic Modify Time	19:38:30
	Page Size	A
	Page Create Date	Sunday, November 22, 2020
	Page Modify Date	Thursday, March 25, 2021
	Page Create Time	08:20:45
	Page Modify Time	19:38:29
	Color	Default
	Source Library	C:\USERS\JEANF\GOOGLE DRIVE\ORCAD16LIB\PIECE\PART.OLB
	Source Symbol	TitleBlockIntellitrol
	Page Name	RIVERDI TFT

Object	Property Name	Property Value
INS1089095 : P12/TP100	Name	INS1089095
	ID	8811
	Reference	TP100
	Designator	
	Part Reference	TP100
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P12/TP100/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	SPI_SCLK
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1089183 : P12/TP97	Name	INS1089183
	ID	8817
	Reference	TP97
	Designator	
	Part Reference	TP97
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P12/TP97/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	SPI_nCS
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1001199 : P12/D32	Name	INS1001199
	ID	7338
	Reference	D32
	Designator	
	Part Reference	D32
	Value	TVS 3V3 DL
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	sot23-3
	Manufacturer	Diodes Incorporated
	Manufacturer PN	D1213A-02SOL-7
	Description	TVS DIODE 3.3V 10V SOT23
	Digi-Key PN	D1213A-02SOL-7DICT-ND
	digikey_id	{distributorPn:D1213A-02SOL-7DICT-ND,mfr:Diodes Incorporated,mpn:D1213A-02SOL-7DICT-ND}
	Distributor	
	Distributor PN	

Object	Property Name	Property Value
CA : P12/D32/CA	Name	CA
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
CAT1 : P12/D32/CAT1	Name	CAT1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	SPI_nCS
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
CAT2 : P12/D32/CAT2	Name	CAT2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	SPI_MOSI
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
INS1089239 : P12/TP95	Name	INS1089239
	ID	8821
	Reference	TP95
	Designator	
	Part Reference	TP95
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P12/TP95/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	FT8XX_nPD
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1089155 : P12/TP98	Name	INS1089155
	ID	8815
	Reference	TP98
	Designator	
	Part Reference	TP98
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P12/TP98/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	SPI_MOSI
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1000827 : P12/D31	Name	INS1000827
	ID	7332
	Reference	D31
	Designator	
	Part Reference	D31
	Value	TVS 3V3 DL
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	sot23-3
	Manufacturer	Diodes Incorporated
	Manufacturer PN	D1213A-02SOL-7
	Description	TVS DIODE 3.3V 10V SOT23
	Digi-Key PN	D1213A-02SOL-7DICT-ND
	digikey_id	{distributorPn:D1213A-02SOL-7DICT-ND,mfr:Diodes Incorporated,mpn:D1213A-02SOL-7DICT-ND}
	Distributor	
	Distributor PN	

Object	Property Name	Property Value
CA : P12/D31/CA	Name	CA
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
CAT1 : P12/D31/CAT1	Name	CAT1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	FT8XX_nPD
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
CAT2 : P12/D31/CAT2	Name	CAT2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	FT8XX_nINT
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
INS994891 : P12/R113	Name	INS994891
	ID	5702
	Reference	R113
	Designator	
	Part Reference	R113
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,mpn:ERJ-2RKF33R2X}
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RKF33R2X
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	0402_res_ipc

Object	Property Name	Property Value
1 : P12/R113/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N994548
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P12/R113/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	SPI_MISO
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS994636 : P12/C113	Name	INS994636
	ID	5642
	Reference	C113
	Designator	
	Part Reference	C113
	Value	10uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0805_cap
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL21A106KOQNNNG
	Description	CAP CER 10UF 16V X5R 0805
	Digi-Key PN	1276-6455-1-ND
	digikey_id	{distributorPn:1276-6455-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL21A106KOQNNNG}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P12/C113/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P12/C113/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS994654 : P12/C114	Name	INS994654
	ID	5639
	Reference	C114
	Designator	
	Part Reference	C114
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P12/C114/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P12/C114/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1001322 : P12/D33	Name	INS1001322
	ID	7342
	Reference	D33
	Designator	
	Part Reference	D33
	Value	TVS 3V3 DL
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	sot23-3
	Manufacturer	Diodes Incorporated
	Manufacturer PN	D1213A-02SOL-7
	Description	TVS DIODE 3.3V 10V SOT23
	Digi-Key PN	D1213A-02SOL-7DICT-ND
	digikey_id	{distributorPn:D1213A-02SOL-7DICT-ND,mfr:Diodes Incorporated,mpn:D1213A-02SOL-7DICT-ND}
	Distributor	
	Distributor PN	

Object	Property Name	Property Value
CA : P12/D33/CA	Name	CA
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
CAT1 : P12/D33/CAT1	Name	CAT1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N994548
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
CAT2 : P12/D33/CAT2	Name	CAT2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	SPI_SCLK
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
INS994462 : P12/J29	Name	INS994462
	ID	5645
	Reference	J29
	Designator	
	Part Reference	J29
	Value	HEADER 22
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:WM11287CT-ND,mfr:Molex,mpn:5051102091}
	Digi-Key PN	WM11287CT-ND
	Description	CONN FFC/FPC BOTTOM 20P .5MM R/A
	Manufacturer PN	5051102091
	Manufacturer	Molex
	PCB Footprint	zif20
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P12/J29/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P12/J29/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
3 : P12/J29/3	Name	3
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	SPI_SCLK
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
4 : P12/J29/4	Name	4
	Number	4
	Swap Id	-1
	Type	Passive
	Net Name	N994548
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
5 : P12/J29/5	Name	5
	Number	5
	Swap Id	-1
	Type	Passive
	Net Name	SPI_MOSI
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
6 : P12/J29/6	Name	6
	Number	6
	Swap Id	-1
	Type	Passive
	Net Name	SPI_nCS
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
7 : P12/J29/7	Name	7
	Number	7
	Swap Id	-1
	Type	Passive
	Net Name	FT8XX_nINT
	Order	6
	Is No Connect	True

Object	Property Name	Property Value
8 : P12/J29/8	Name	8
	Number	8
	Swap Id	-1
	Type	Passive
	Net Name	FT8XX_nPD
	Order	7
	Is No Connect	True

Object	Property Name	Property Value
9 : P12/J29/9	Name	9
	Number	9
	Swap Id	-1
	Type	Passive
	Net Name	N999500
	Order	8
	Is No Connect	False

Object	Property Name	Property Value
10 : P12/J29/10	Name	10
	Number	10
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	9
	Is No Connect	True

Object	Property Name	Property Value
11 : P12/J29/11	Name	11
	Number	11
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	10
	Is No Connect	True

Object	Property Name	Property Value
12 : P12/J29/12	Name	12
	Number	12
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	11
	Is No Connect	True

Object	Property Name	Property Value
13 : P12/J29/13	Name	13
	Number	13
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	12
	Is No Connect	True

Object	Property Name	Property Value
14 : P12/J29/14	Name	14
	Number	14
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	13
	Is No Connect	True

Object	Property Name	Property Value
15 : P12/J29/15	Name	15
	Number	15
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	14
	Is No Connect	True

Object	Property Name	Property Value
16 : P12/J29/16	Name	16
	Number	16
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	15
	Is No Connect	True

Object	Property Name	Property Value
17 : P12/J29/17	Name	17
	Number	17
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	16
	Is No Connect	False

Object	Property Name	Property Value
18 : P12/J29/18	Name	18
	Number	18
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	17
	Is No Connect	False

Object	Property Name	Property Value
19 : P12/J29/19	Name	19
	Number	19
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	18
	Is No Connect	False

Object	Property Name	Property Value
20 : P12/J29/20	Name	20
	Number	20
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	19
	Is No Connect	False

Object	Property Name	Property Value
21 : P12/J29/21	Name	21
	Number	21
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	20
	Is No Connect	False

Object	Property Name	Property Value
22 : P12/J29/22	Name	22
	Number	22
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	21
	Is No Connect	False

Object	Property Name	Property Value
INS1089211 : P12/TP96	Name	INS1089211
	ID	8819
	Reference	TP96
	Designator	
	Part Reference	TP96
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P12/TP96/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	FT8XX_nINT
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS999366 : P12/R112	Name	INS999366
	ID	7179
	Reference	R112
	Designator	
	Part Reference	R112
	Value	0R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:311-0.0GRCT-ND,mfr:Yageo,mpn:RC0603JR-070RL,ul:{uid:9b3}}
	Digi-Key PN	311-0.0GRCT-ND
	Description	RES SMD 0 OHM JUMPER 1/10W 0603
	Manufacturer PN	RC0603JR-070RL
	Manufacturer	Yageo
	PCB Footprint	0402_res_ipc

Object	Property Name	Property Value
1 : P12/R112/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N999500
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P12/R112/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1089127 : P12/TP99	Name	INS1089127
	ID	8813
	Reference	TP99
	Designator	
	Part Reference	TP99
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P12/TP99/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N994548
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
Line	Name	I992112
	Color	Default
	Start X-Coordinate	10
	Start Y-Coordinate	650
	End X-Coordinate	510
	End Y-Coordinate	650

Object	Property Name	Property Value
Capacitor are 0603 -20% 16V unless otherwise noted	Name	I992100
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	515
	Bounding Box Top	680
	Bounding Box Bottom	696
	Text	Capacitor are 0603 -20% 16V unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	680
	Font	Courier New

Object	Property Name	Property Value
Resistors are 0603 -1% 1/10W unless otherwise noted	Name	I992106
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	525
	Bounding Box Top	660
	Bounding Box Bottom	676
	Text	Resistors are 0603 -1% 1/10W unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	660
	Font	Courier New

Object	Property Name	Property Value
Place as close as possible to the 485 connector	Name	I994128
	Color	Default
	Bounding Box Left	740
	Bounding Box Right	880
	Bounding Box Top	330
	Bounding Box Bottom	369
	Text	Place as close as possible to the 485 connector
	Text Location X-Coordinate	740
	Text Location Y-Coordinate	330
	Font	Courier New

Object	Property Name	Property Value
Fc = 564kHz	Name	I1080789
	Color	Default
	Bounding Box Left	550
	Bounding Box Right	642
	Bounding Box Top	380
	Bounding Box Bottom	393
	Text	Fc = 564kHz
	Text Location X-Coordinate	550
	Text Location Y-Coordinate	380
	Font	Courier New

Object	Property Name	Property Value
RS485 bus interface Max bitrate 550kbps	Name	I1088877
	Color	Default
	Bounding Box Left	780
	Bounding Box Right	936
	Bounding Box Top	10
	Bounding Box Bottom	36
	Text	RS485 bus interface Max bitrate 550kbps
	Text Location X-Coordinate	780
	Text Location Y-Coordinate	10
	Font	Courier New

Object	Property Name	Property Value
DVDD_3V3 : P5/DVDD_3V3 (Wire ID = 983334 )	Color	Default
DVDD_3V3 : P5/DVDD_3V3 (Wire ID = 983334 )	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P5/DVDD_3V3 (Wire ID = 983338 )	Color	Default
DVDD_3V3 : P5/DVDD_3V3 (Wire ID = 983338 )	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P5/DVDD_3V3 (Wire ID = 983342 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P5/DVDD_3V3 (Wire ID = 983346 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P5/DVDD_3V3 (Wire ID = 983350 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P5/DVDD_3V3 (Wire ID = 983354 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DGND : P5/DGND (Wire ID = 983394 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P5/DGND (Wire ID = 983398 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
485_B : P5/485_B (Wire ID = 985130 )	Color	Default
	DIFFERENTIAL_PAIR	
	Name	485_B

Object	Property Name	Property Value
485_B : P5/485_B (Wire ID = 985134 )	Color	Default
	DIFFERENTIAL_PAIR	
	Name	485_B

Object	Property Name	Property Value
485_B : P5/485_B (Wire ID = 985138 )	Color	Default
	DIFFERENTIAL_PAIR	
	Name	485_B

Object	Property Name	Property Value
485_B : P5/485_B (Wire ID = 985142 )	Color	Default
	DIFFERENTIAL_PAIR	
	Name	485_B

Object	Property Name	Property Value
485_B : P5/485_B (Wire ID = 985146 )	Color	Default
	DIFFERENTIAL_PAIR	
	Name	485_B

Object	Property Name	Property Value
485_B : P5/485_B (Wire ID = 985198 )	Color	Default
	DIFFERENTIAL_PAIR	
	Name	485_B

Object	Property Name	Property Value
N985250 : P5/N985250 (Wire ID = 985250 )	Color	Default
	Name	N985250

Object	Property Name	Property Value
485_B : P5/485_B (Wire ID = 985254 )	Color	Default
	DIFFERENTIAL_PAIR	
	Name	485_B

Object	Property Name	Property Value
485_A : P5/485_A (Wire ID = 985258 )	Color	Default
	DIFFERENTIAL_PAIR	
	Name	485_A

Object	Property Name	Property Value
485_A : P5/485_A (Wire ID = 985274 )	Color	Default
	DIFFERENTIAL_PAIR	
	Name	485_A

Object	Property Name	Property Value
DGND : P5/DGND (Wire ID = 985278 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P5/DGND (Wire ID = 985282 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N985250 : P5/N985250 (Wire ID = 985290 )	Color	Default
	Name	N985250

Object	Property Name	Property Value
485_A : P5/485_A (Wire ID = 985294 )	Color	Default
	DIFFERENTIAL_PAIR	
	Name	485_A

Object	Property Name	Property Value
485_A : P5/485_A (Wire ID = 985298 )	Color	Default
	DIFFERENTIAL_PAIR	
	Name	485_A

Object	Property Name	Property Value
485_A : P5/485_A (Wire ID = 985362 )	Color	Default
	DIFFERENTIAL_PAIR	
	Name	485_A

Object	Property Name	Property Value
485_A : P5/485_A (Wire ID = 985366 )	Color	Default
	DIFFERENTIAL_PAIR	
	Name	485_A

Object	Property Name	Property Value
485_A : P5/485_A (Wire ID = 985370 )	Color	Default
	DIFFERENTIAL_PAIR	
	Name	485_A

Object	Property Name	Property Value
DVDD_3V3 : P5/DVDD_3V3 (Wire ID = 985631 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DGND : P5/DGND (Wire ID = 985940 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P5/DGND (Wire ID = 985942 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N985953 : P5/N985953 (Wire ID = 985953 )	Color	Default
	Name	N985953

Object	Property Name	Property Value
N985953 : P5/N985953 (Wire ID = 985957 )	Color	Default
	Name	N985953

Object	Property Name	Property Value
N985953 : P5/N985953 (Wire ID = 985962 )	Color	Default
	Name	N985953

Object	Property Name	Property Value
UART1_TX : P5/UART1_TX (Wire ID = 986038 )	Color	Default
	Name	UART1_TX

Object	Property Name	Property Value
UART1_TX : P5/UART1_TX (Wire ID = 986040 )	Color	Default
	Name	UART1_TX

Object	Property Name	Property Value
N986060 : P5/N986060 (Wire ID = 986060 )	Color	Default
	Name	N986060

Object	Property Name	Property Value
N986060 : P5/N986060 (Wire ID = 986414 )	Color	Default
	Name	N986060

Object	Property Name	Property Value
N985953 : P5/N985953 (Wire ID = 986466 )	Color	Default
	Name	N985953

Object	Property Name	Property Value
UART1_CTS : P5/UART1_CTS (Wire ID = 986504 )	Color	Default
	Name	UART1_CTS

Object	Property Name	Property Value
UART1_CTS : P5/UART1_CTS (Wire ID = 986508 )	Color	Default
	Name	UART1_CTS

Object	Property Name	Property Value
UART1_CTS : P5/UART1_CTS (Wire ID = 986510 )	Color	Default
	Name	UART1_CTS

Object	Property Name	Property Value
UART1_CTS : P5/UART1_CTS (Wire ID = 986514 )	Color	Default
	Name	UART1_CTS

Object	Property Name	Property Value
DGND : P5/DGND (Wire ID = 986541 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P5/DGND (Wire ID = 986543 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DVDD_3V3 : P5/DVDD_3V3 (Wire ID = 986646 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P5/DVDD_3V3 (Wire ID = 986650 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P5/DVDD_3V3 (Wire ID = 986658 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DGND : P5/DGND (Wire ID = 986702 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DVDD_3V3 : P5/DVDD_3V3 (Wire ID = 986814 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P5/DVDD_3V3 (Wire ID = 986862 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
N986060 : P5/N986060 (Wire ID = 988992 )	Color	Default
	Name	N986060

Object	Property Name	Property Value
UART1_RX : P5/UART1_RX (Wire ID = 988998 )	Color	Default
	Name	UART1_RX

Object	Property Name	Property Value
N985250 : P5/N985250 (Wire ID = 991739 )	Color	Default
	Name	N985250

Object	Property Name	Property Value
DGND : P5/DGND (Wire ID = 994150 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
UART1_TX : P5/UART1_TX (Wire ID = 994448 )	Color	Default
	Name	UART1_TX

Object	Property Name	Property Value
485_A : P5/485_A (Wire ID = 1002668 )	Color	Default
	DIFFERENTIAL_PAIR	
	Name	485_A

Object	Property Name	Property Value
485_A : P5/485_A (Wire ID = 1002672 )	Color	Default
	DIFFERENTIAL_PAIR	
	Name	485_A

Object	Property Name	Property Value
485_B : P5/485_B (Wire ID = 1002684 )	Color	Default
	DIFFERENTIAL_PAIR	
	Name	485_B

Object	Property Name	Property Value
485_B : P5/485_B (Wire ID = 1002692 )	Color	Default
	DIFFERENTIAL_PAIR	
	Name	485_B

Object	Property Name	Property Value
UART1_RX : P5/UART1_RX (Wire ID = 1079606 )	Color	Default
	Name	UART1_RX

Object	Property Name	Property Value
UART1_TX : P5/UART1_TX (Wire ID = 1079650 )	Color	Default
	Name	UART1_TX

Object	Property Name	Property Value
N985953 : P5/N985953 (Wire ID = 1079685 )	Color	Default
	Name	N985953

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
485_B : P5/485_B	Name	485_B
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	485_B
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
485_A : P5/485_A	Name	485_A
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	485_A
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
UART1_TX : P5/UART1_TX	Name	UART1_TX
	Number	
	Swap Id	-1
	Type	Input
	Net Name	UART1_TX
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
UART1_RTS : P5/UART1_RTS	Name	UART1_RTS
	Number	
	Swap Id	-1
	Type	Input
	Net Name	UART1_RTS
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
UART1_RX : P5/UART1_RX	Name	UART1_RX
	Number	
	Swap Id	-1
	Type	Output
	Net Name	UART1_RX
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
UART1_CTS : P5/UART1_CTS	Name	UART1_CTS
	Number	
	Swap Id	-1
	Type	Output
	Net Name	UART1_CTS
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
TitleBlockIntellitrol : P5/TitleBlockIntellitrol	Schematic Page Count	1
	Schematic Page Number	1
	Page Number	18
	Page Count	21
	Path Name	P5/TitleBlockIntellitrol
	Schematic Path	/P5
	ID	8917
	OrgAddr4	
	OrgAddr3	
	OrgAddr2	925 Chemin ste-foy apt4, QC, CANADA
	OrgAddr1	CPI/CEP #6022173
	OrgName	Jean-Francois Bilodeau, B.E.Eng
	Title	RS-485 bus interface
	Cage Code	
	RevCode	0B
	Doc	
	Name	TitleBlockIntellitrol
	Design Name	DSPEAK-V1_00-0B
	Design File Name	C:\USERS\JEANF\DESKTOP\GIT\DSPEAK\HARDWA
	Design Create Date	Friday, November 13, 2020
	Design Modify Date	Thursday, March 25, 2021
	Design Create Time	18:59:24
	Design Modify Time	19:51:15
	Schematic Name	RS-485
	Schematic Create Date	Thursday, November 19, 2020
	Schematic Modify Date	Thursday, March 25, 2021
	Schematic Create Time	18:47:38
	Schematic Modify Time	19:37:30
	Page Size	A
	Page Create Date	Thursday, November 19, 2020
	Page Modify Date	Thursday, March 25, 2021
	Page Create Time	18:47:37
	Page Modify Time	19:37:29
	Color	Default
	Source Library	C:\USERS\JEANF\GOOGLE DRIVE\ORCAD16LIB\PIECE\PART.OLB
	Source Symbol	TitleBlockIntellitrol
	Page Name	RS-485

Object	Property Name	Property Value
INS983356 : P5/C117	Name	INS983356
	ID	3442
	Reference	C117
	Designator	
	Part Reference	C117
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Digi-Key PN	1276-1000-1-ND
	Description	CAP CER 0.1UF 50V X7R 0603
	Manufacturer PN	CL10B104KB8NNNC
	Manufacturer	Samsung Electro-Mechanics
	PCB Footprint	0603_cap_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P5/C117/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P5/C117/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS983374 : P5/C116	Name	INS983374
	ID	3439
	Reference	C116
	Designator	
	Part Reference	C116
	Value	10uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:1276-6455-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL21A106KOQNNNG}
	Digi-Key PN	1276-6455-1-ND
	Description	CAP CER 10UF 16V X5R 0805
	Manufacturer PN	CL21A106KOQNNNG
	Manufacturer	Samsung Electro-Mechanics
	PCB Footprint	0805_cap
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P5/C116/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P5/C116/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1079630 : P5/TP67	Name	INS1079630
	ID	8575
	Reference	TP67
	Designator	
	Part Reference	TP67
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P5/TP67/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	UART1_TX
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS70 : P5/U27	Name	INS70
	ID	3428
	Reference	U27
	Designator	
	Part Reference	U27
	Value	SN65HVD75
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	SOIC-8
	Manufacturer	Texas Instruments
	Manufacturer PN	SN65HVD75DR
	Description	IC TRANSCEIVER HALF 1/1 8SOIC
	Digi-Key PN	296-38570-1-ND
	digikey_id	{distributorPn:296-38570-1-ND,mfr:Texas Instruments,mpn:SN65HVD75DR,u
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
R : P5/U27/R	Name	R
	Number	1
	Swap Id	-1
	Type	Output
	Net Name	N986060
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
R\E\ : P5/U27/R\E\	Name	R\E\
	Number	2
	Swap Id	-1
	Type	Input
	Net Name	N985953
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
DE : P5/U27/DE	Name	DE
	Number	3
	Swap Id	-1
	Type	Input
	Net Name	N985953
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
D : P5/U27/D	Name	D
	Number	4
	Swap Id	-1
	Type	Input
	Net Name	UART1_TX
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
GND : P5/U27/GND	Name	GND
	Number	5
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
A : P5/U27/A	Name	A
	Number	6
	Swap Id	-1
	Type	Bidirectional
	Net Name	485_A
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
B : P5/U27/B	Name	B
	Number	7
	Swap Id	-1
	Type	Bidirectional
	Net Name	485_B
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
VCC : P5/U27/VCC	Name	VCC
	Number	8
	Swap Id	-1
	Type	Power
	Net Name	DVDD_3V3
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
INS1079665 : P5/TP66	Name	INS1079665
	ID	8577
	Reference	TP66
	Designator	
	Part Reference	TP66
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P5/TP66/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N985953
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS985230 : P5/C118	Name	INS985230
	ID	3504
	Reference	C118
	Designator	
	Part Reference	C118
	Value	4.7nF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:1276-1098-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B472KB8NNNC}
	Digi-Key PN	1276-1098-1-ND
	Description	CAP CER 4700PF 50V X7R 0603
	Manufacturer PN	CL10B472KB8NNNC
	Manufacturer	Samsung Electro-Mechanics
	PCB Footprint	0603_cap_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P5/C118/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P5/C118/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N985250
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS985148 : P5/R115	Name	INS985148
	ID	3498
	Reference	R115
	Designator	
	Part Reference	R115
	Value	60R4
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Manufacturer	Yageo
	Manufacturer PN	RC0805FR-0760R4L
	Description	RES SMD 60.4 OHM 1% 1/8W 0805
	Digi-Key PN	311-60.4CRCT-ND
	digikey_id	{distributorPn:311-60.4CRCT-ND,mfr:Yageo,mpn:RC0805FR-0760R4L,ul:(uid:0805_res_ipc)}
	PCB Footprint	0805_res_ipc

Object	Property Name	Property Value
1 : P5/R115/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N985250
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P5/R115/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	485_B
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS988974 : P5/R114	Name	INS988974
	ID	5571
	Reference	R114
	Designator	
	Part Reference	R114
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,mpn:ERJ-2RKF33R2X}
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RKF33R2X
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	0402_res_ipc

Object	Property Name	Property Value
1 : P5/R114/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N986060
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P5/R114/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	UART1_RX
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS986664 : P5/C115	Name	INS986664
	ID	3557
	Reference	C115
	Designator	
	Part Reference	C115
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B1
	Digi-Key PN	1276-1000-1-ND
	Description	CAP CER 0.1UF 50V X7R 0603
	Manufacturer PN	CL10B104KB8NNNC
	Manufacturer	Samsung Electro-Mechanics
	PCB Footprint	0603_cap_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P5/C115/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P5/C115/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1079586 : P5/TP65	Name	INS1079586
	ID	8573
	Reference	TP65
	Designator	
	Part Reference	TP65
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P5/TP65/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	UART1_RX
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS985306 : P5/R116	Name	INS985306
	ID	3495
	Reference	R116
	Designator	
	Part Reference	R116
	Value	60R4
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Manufacturer	Yageo
	Manufacturer PN	RC0805FR-0760R4L
	Description	RES SMD 60.4 OHM 1% 1/8W 0805
	Digi-Key PN	311-60.4CRCT-ND
	digikey_id	{distributorPn:311-60.4CRCT-ND,mfr:Yageo,mpn:RC0805FR-0760R4L,ul:{uid}}
	PCB Footprint	0805_res_ipc

Object	Property Name	Property Value
1 : P5/R116/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	485_A
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P5/R116/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N985250
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS986099 : P5/U26	Name	INS986099
	ID	3546
	Reference	U26
	Designator	
	Part Reference	U26
	Value	SN74LVC1G14
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	sot23-5
	Manufacturer	Texas Instruments
	Manufacturer PN	SN74LVC1G14DBVR
	Description	IC INVERTER 1CH 1-INP SOT23-5
	Digi-Key PN	296-11607-1-ND
	digikey_id	{distributorPn:296-11607-1-ND,mfr:Texas Instruments,mpn:SN74LVC1G14DBVR}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
NC : P5/U26/NC	Name	NC
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	0
	Is No Connect	True

Object	Property Name	Property Value
A : P5/U26/A	Name	A
	Number	2
	Swap Id	-1
	Type	Input
	Net Name	UART1_CTS
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
GND : P5/U26/GND	Name	GND
	Number	3
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
Y : P5/U26/Y	Name	Y
	Number	4
	Swap Id	-1
	Type	Output
	Net Name	N985953
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
VCC : P5/U26/VCC	Name	VCC
	Number	5
	Swap Id	-1
	Type	Power
	Net Name	DVDD_3V3
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
INS994130 : P5/D34	Name	INS994130
	ID	7324
	Reference	D34
	Designator	
	Part Reference	D34
	Value	SZNUP2105LT1G
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:SZNUP2105LT1GOSCT-ND,mfr:ON Semiconductor,mpn:SZNUP2105LT1G}
	Digi-Key PN	SZNUP2105LT1GOSCT-ND
	Description	TVS DIODE 24V 44V SOT23-3
	Manufacturer PN	SZNUP2105LT1G
	Manufacturer	ON Semiconductor
	PCB Footprint	sot23-3
	Distributor	
	Distributor PN	

Object	Property Name	Property Value
CAT1 : P5/D34/CAT1	Name	CAT1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	485_B
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
CAT2 : P5/D34/CAT2	Name	CAT2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	485_A
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
CA : P5/D34/CA	Name	CA
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
Line	Name	I988619
	Color	Default
	Start X-Coordinate	10
	Start Y-Coordinate	890
	End X-Coordinate	610
	End Y-Coordinate	890

Object	Property Name	Property Value
Resistors are 0603 -1% 1/10W unless otherwise noted	Name	I988607
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	576
	Bounding Box Top	900
	Bounding Box Bottom	919
	Text	Resistors are 0603 -1% 1/10W unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	900
	Font	Courier New

Object	Property Name	Property Value
Capacitor are 0603 -20% 16V unless otherwise noted	Name	I988613
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	565
	Bounding Box Top	920
	Bounding Box Bottom	939
	Text	Capacitor are 0603 -20% 16V unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	920
	Font	Courier New

Object	Property Name	Property Value
R/C DAC output 2x Servo-motor PWM 3x 0-5V PWM 5V Servo power	Name	I1088865
	Color	Default
	Bounding Box Left	1340
	Bounding Box Right	1488
	Bounding Box Top	10
	Bounding Box Bottom	62
	Text	R/C DAC output 2x Servo-motor PWM 3x 0-5V PWM 5V Servo power
	Text Location X-Coordinate	1340
	Text Location Y-Coordinate	10
	Font	Courier New

Object	Property Name	Property Value
ADR = 0x58 SCL <= 400kHz	Name	I1089543
	Color	Default
	Bounding Box Left	560
	Bounding Box Right	668
	Bounding Box Top	390
	Bounding Box Bottom	416
	Text	ADR = 0x58 SCL <= 400kHz
	Text Location X-Coordinate	560
	Text Location Y-Coordinate	390
	Font	Courier New

Object	Property Name	Property Value
ADR = 0x5A SCL <= 400kHz	Name	I1089551
	Color	Default
	Bounding Box Left	560
	Bounding Box Right	668
	Bounding Box Top	60
	Bounding Box Bottom	86
	Text	ADR = 0x5A SCL <= 400kHz
	Text Location X-Coordinate	560
	Text Location Y-Coordinate	60
	Font	Courier New

Object	Property Name	Property Value
Jumper 1-2 -> Servo PWM output Jumper 2-3 -> RC DAC output	Name	I1089565
	Color	Default
	Bounding Box Left	110
	Bounding Box Right	354
	Bounding Box Top	390
	Bounding Box Bottom	416
	Text	Jumper 1-2 -> Servo PWM output Jumper 2-3 -> RC DAC output
	Text Location X-Coordinate	110
	Text Location Y-Coordinate	390
	Font	Courier New

Object	Property Name	Property Value
Jumper 1-2 -> Servo PWM output Jumper 2-3 -> RC DAC output	Name	I1089657
	Color	Default
	Bounding Box Left	110
	Bounding Box Right	354
	Bounding Box Top	60
	Bounding Box Bottom	86
	Text	Jumper 1-2 -> Servo PWM output Jumper 2-3 -> RC DAC output
	Text Location X-Coordinate	110
	Text Location Y-Coordinate	60
	Font	Courier New

Object	Property Name	Property Value
SCL : P15/SCL (Wire ID = 394 )	Color	Default
SCL : P15/SCL (Wire ID = 394 )	Name	SCL

Object	Property Name	Property Value
SDA : P15/SDA (Wire ID = 398 )	Color	Default
SDA : P15/SDA (Wire ID = 398 )	Name	SDA

Object	Property Name	Property Value
AVDD_3V3 : P15/AVDD_3V3 (Wire ID = 985427 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P15/AVDD_3V3 (Wire ID = 985431 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P15/AVDD_3V3 (Wire ID = 985439 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
DGND : P15/DGND (Wire ID = 985483 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
AVDD_3V3 : P15/AVDD_3V3 (Wire ID = 985510 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P15/AVDD_3V3 (Wire ID = 985512 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P15/AVDD_3V3 (Wire ID = 985597 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
DGND : P15/DGND (Wire ID = 985641 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
AVDD_3V3 : P15/AVDD_3V3 (Wire ID = 985707 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P15/AVDD_3V3 (Wire ID = 985711 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P15/AVDD_3V3 (Wire ID = 985715 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P15/AVDD_3V3 (Wire ID = 985719 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
N986622 : P15/N986622 (Wire ID = 986622 )	Color	Default
	Name	N986622

Object	Property Name	Property Value
AVDD_3V3 : P15/AVDD_3V3 (Wire ID = 986649 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
N986732 : P15/N986732 (Wire ID = 986732 )	Color	Default
	Name	N986732

Object	Property Name	Property Value
DGND : P15/DGND (Wire ID = 986736 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P15/DGND (Wire ID = 986808 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P15/DGND (Wire ID = 987082 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P15/DGND (Wire ID = 987120 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P15/DGND (Wire ID = 987152 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P15/DGND (Wire ID = 987156 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
VRC_PWM6L_UNBUF : P15/VRC_PWM6L_UNBUF (Wire ID = 988815 )	Color	Default
	Name	VRC_PWM6L_UNBUF

Object	Property Name	Property Value
VRC_PWM6L_UNBUF : P15/VRC_PWM6L_UNBUF (Wire ID = 988856 )	Color	Default
	Name	VRC_PWM6L_UNBUF

Object	Property Name	Property Value
DGND : P15/DGND (Wire ID = 988894 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
VRC_PWM6H_UNBUF : P15/VRC_PWM6H_UNBUF (Wire ID = 989083)	Color	Default
	Name	VRC_PWM6H_UNBUF

Object	Property Name	Property Value
VRC_PWM6H_UNBUF : P15/VRC_PWM6H_UNBUF (Wire ID = 989087)	Color	Default
	Name	VRC_PWM6H_UNBUF

Object	Property Name	Property Value
DGND : P15/DGND (Wire ID = 989011)	Color	Default
	Name	DGND

Object	Property Name	Property Value
PWM6L_OUT : P15/PWM6L_OUT (Wire ID = 989105)	Color	Default
	Name	PWM6L_OUT

Object	Property Name	Property Value
N989120 : P15/N989120 (Wire ID = 989120)	Color	Default
	Name	N989120

Object	Property Name	Property Value
PWM6H_OUT : P15/PWM6H_OUT (Wire ID = 989256)	Color	Default
	Name	PWM6H_OUT

Object	Property Name	Property Value
VRC_PWM6L_UNBUF : P15/VRC_PWM6L_UNBUF (Wire ID = 989325)	Color	Default
	Name	VRC_PWM6L_UNBUF

Object	Property Name	Property Value
PWM6L_OUT : P15/PWM6L_OUT (Wire ID = 989485)	Color	Default
	Name	PWM6L_OUT

Object	Property Name	Property Value
DGND : P15/DGND (Wire ID = 989507)	Color	Default
	Name	DGND

Object	Property Name	Property Value
PWM6L_OUT : P15/PWM6L_OUT (Wire ID = 989535)	Color	Default
	Name	PWM6L_OUT

Object	Property Name	Property Value
PWM6H_OUT : P15/PWM6H_OUT (Wire ID = 989596)	Color	Default
	Name	PWM6H_OUT

Object	Property Name	Property Value
DGND : P15/DGND (Wire ID = 989618)	Color	Default
	Name	DGND

Object	Property Name	Property Value
PWM6H_OUT : P15/PWM6H_OUT (Wire ID = 989628)	Color	Default
	Name	PWM6H_OUT

Object	Property Name	Property Value
DGND : P15/DGND (Wire ID = 991085 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P15/DGND (Wire ID = 991184 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
VRC_PWM6L_BUF : P15/VRC_PWM6L_BUF (Wire ID = 99542 )	Color	Default
	Name	VRC_PWM6L_BUF

Object	Property Name	Property Value
VRC_PWM6L_BUF : P15/VRC_PWM6L_BUF (Wire ID = 99546 )	Color	Default
	Name	VRC_PWM6L_BUF

Object	Property Name	Property Value
VRC_PWM6L_BUF : P15/VRC_PWM6L_BUF (Wire ID = 99551 )	Color	Default
	Name	VRC_PWM6L_BUF

Object	Property Name	Property Value
VRC_PWM6L_BUF : P15/VRC_PWM6L_BUF (Wire ID = 99557 )	Color	Default
	Name	VRC_PWM6L_BUF

Object	Property Name	Property Value
VRC_PWM6L_BUF : P15/VRC_PWM6L_BUF (Wire ID = 99559 )	Color	Default
	Name	VRC_PWM6L_BUF

Object	Property Name	Property Value
VRC_PWM6L_BUF : P15/VRC_PWM6L_BUF (Wire ID = 99579 )	Color	Default
	Name	VRC_PWM6L_BUF

Object	Property Name	Property Value
VRC_PWM6L_BUF : P15/VRC_PWM6L_BUF (Wire ID = 99528 )	Color	Default
	Name	VRC_PWM6L_BUF

Object	Property Name	Property Value
VRC_PWM6L_BUF : P15/VRC_PWM6L_BUF (Wire ID = 99538 )	Color	Default
	Name	VRC_PWM6L_BUF

Object	Property Name	Property Value
AVDD_3V3 : P15/AVDD_3V3 (Wire ID = 991782 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P15/AVDD_3V3 (Wire ID = 991786 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P15/AVDD_3V3 (Wire ID = 991790 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
DGND : P15/DGND (Wire ID = 991812 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P15/DGND (Wire ID = 991967 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
AVDD_3V3 : P15/AVDD_3V3 (Wire ID = 992007 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P15/AVDD_3V3 (Wire ID = 992066 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P15/AVDD_3V3 (Wire ID = 992080 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
SCL : P15/SCL (Wire ID = 992621 )	Color	Default
	Name	SCL

Object	Property Name	Property Value
SDA : P15/SDA (Wire ID = 992631 )	Color	Default
	Name	SDA

Object	Property Name	Property Value
AVDD_3V3 : P15/AVDD_3V3 (Wire ID = 992982 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P15/AVDD_3V3 (Wire ID = 992986 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P15/AVDD_3V3 (Wire ID = 992990 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P15/AVDD_3V3 (Wire ID = 992994 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P15/AVDD_3V3 (Wire ID = 992998 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P15/AVDD_3V3 (Wire ID = 993002 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
DGND : P15/DGND (Wire ID = 993042 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P15/DGND (Wire ID = 993046 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
VRC_PWM6H_UNBUF : P15/VRC_PWM6H_UNBUF (Wire ID = 993124 )	Color	Default
	Name	VRC_PWM6H_UNBUF

Object	Property Name	Property Value
VRC_PWM6H_BUF : P15/VRC_PWM6H_BUF (Wire ID = 993136 )	Color	Default
	Name	VRC_PWM6H_BUF

Object	Property Name	Property Value
VRC_PWM6H_BUF : P15/VRC_PWM6H_BUF (Wire ID = 993140 )	Color	Default
	Name	VRC_PWM6H_BUF

Object	Property Name	Property Value
VRC_PWM6H_BUF : P15/VRC_PWM6H_BUF (Wire ID = 993144 )	Color	Default
	Name	VRC_PWM6H_BUF

Object	Property Name	Property Value
VRC_PWM6H_BUF : P15/VRC_PWM6H_BUF (Wire ID = 993148 )	Color	Default
	Name	VRC_PWM6H_BUF

Object	Property Name	Property Value
VRC_PWM6H_BUF : P15/VRC_PWM6H_BUF (Wire ID = 993152 )	Color	Default
	Name	VRC_PWM6H_BUF

Object	Property Name	Property Value
VRC_PWM6H_BUF : P15/VRC_PWM6H_BUF (Wire ID = 993156 )	Color	Default
	Name	VRC_PWM6H_BUF

Object	Property Name	Property Value
VRC_PWM6H_BUF : P15/VRC_PWM6H_BUF (Wire ID = 993160 )	Color	Default
	Name	VRC_PWM6H_BUF

Object	Property Name	Property Value
DGND : P15/DGND (Wire ID = 993182 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P15/DGND (Wire ID = 993186 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
VRC_PWM6H_BUF : P15/VRC_PWM6H_BUF (Wire ID = 993186 )	Color	Default
	Name	VRC_PWM6H_BUF

Object	Property Name	Property Value
DGND : P15/DGND (Wire ID = 993445 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
PWM5H_OUT : P15/PWM5H_OUT (Wire ID = 993491 )	Color	Default
	Name	PWM5H_OUT

Object	Property Name	Property Value
N997666 : P15/N997666 (Wire ID = 997666 )	Color	Default
	Name	N997666

Object	Property Name	Property Value
N997666 : P15/N997666 (Wire ID = 997668 )	Color	Default
	Name	N997666

Object	Property Name	Property Value
N997666 : P15/N997666 (Wire ID = 997673 )	Color	Default
	Name	N997666

Object	Property Name	Property Value
DVDD_3V3 : P15/DVDD_3V3 (Wire ID = 997731 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P15/DVDD_3V3 (Wire ID = 997735 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P15/DVDD_3V3 (Wire ID = 997740 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_5V0 : P15/DVDD_5V0 (Wire ID = 997746 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
PWM6L_OUT : P15/PWM6L_OUT (Wire ID = 997750 )	Color	Default
	Name	PWM6L_OUT

Object	Property Name	Property Value
PWM6L_OUT : P15/PWM6L_OUT (Wire ID = 997754 )	Color	Default
	Name	PWM6L_OUT

Object	Property Name	Property Value
PWM6L_OUT : P15/PWM6L_OUT (Wire ID = 997759 )	Color	Default
	Name	PWM6L_OUT

Object	Property Name	Property Value
DVDD_3V3 : P15/DVDD_3V3 (Wire ID = 997832 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
PWM6L_IN : P15/PWM6L_IN (Wire ID = 998624 )	Color	Default
	Name	PWM6L_IN

Object	Property Name	Property Value
N997666 : P15/N997666 (Wire ID = 999018 )	Color	Default
	Name	N997666

Object	Property Name	Property Value
N997666 : P15/N997666 (Wire ID = 999022 )	Color	Default
	Name	N997666

Object	Property Name	Property Value
DVDD_3V3 : P15/DVDD_3V3 (Wire ID = 999276 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_5V0 : P15/DVDD_5V0 (Wire ID = 999280 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DVDD_3V3 : P15/DVDD_3V3 (Wire ID = 999284 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P15/DVDD_3V3 (Wire ID = 999288 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P15/DVDD_3V3 (Wire ID = 999292 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
N999350 : P15/N999350 (Wire ID = 999350 )	Color	Default
	Name	N999350

Object	Property Name	Property Value
PWM6H_OUT : P15/PWM6H_OUT (Wire ID = 999354 )	Color	Default
	Name	PWM6H_OUT

Object	Property Name	Property Value
N999350 : P15/N999350 (Wire ID = 999358 )	Color	Default
	Name	N999350

Object	Property Name	Property Value
PWM6H_OUT : P15/PWM6H_OUT (Wire ID = 999362 )	Color	Default
	Name	PWM6H_OUT

Object	Property Name	Property Value
PWM6H_OUT : P15/PWM6H_OUT (Wire ID = 999366 )	Color	Default
	Name	PWM6H_OUT

Object	Property Name	Property Value
DVDD_3V3 : P15/DVDD_3V3 (Wire ID = 999535 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_5V0 : P15/DVDD_5V0 (Wire ID = 999539 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DVDD_3V3 : P15/DVDD_3V3 (Wire ID = 999543 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P15/DVDD_3V3 (Wire ID = 999547 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P15/DVDD_3V3 (Wire ID = 999551 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
PWM5H_IN : P15/PWM5H_IN (Wire ID = 999609 )	Color	Default
	Name	PWM5H_IN

Object	Property Name	Property Value
PWM5H_OUT : P15/PWM5H_OUT (Wire ID = 999613)	Color	Default
	Name	PWM5H_OUT

Object	Property Name	Property Value
PWM5H_IN : P15/PWM5H_IN (Wire ID = 999617 )	Color	Default
	Name	PWM5H_IN

Object	Property Name	Property Value
PWM5H_OUT : P15/PWM5H_OUT (Wire ID = 999621)	Color	Default
	Name	PWM5H_OUT

Object	Property Name	Property Value
PWM5H_OUT : P15/PWM5H_OUT (Wire ID = 999625)	Color	Default
	Name	PWM5H_OUT

Object	Property Name	Property Value
N1000279 : P15/N1000279 (Wire ID = 1000279 )	Color	Default
	Name	N1000279

Object	Property Name	Property Value
PWM6H_IN : P15/PWM6H_IN (Wire ID = 1000283 )	Color	Default
	Name	PWM6H_IN

Object	Property Name	Property Value
N999350 : P15/N999350 (Wire ID = 1000287 )	Color	Default
	Name	N999350

Object	Property Name	Property Value
N999350 : P15/N999350 (Wire ID = 1000291 )	Color	Default
	Name	N999350

Object	Property Name	Property Value
N999350 : P15/N999350 (Wire ID = 1000295 )	Color	Default
	Name	N999350

Object	Property Name	Property Value
PWM5H_IN : P15/PWM5H_IN (Wire ID = 1000406 )	Color	Default
	Name	PWM5H_IN

Object	Property Name	Property Value
PWM5H_OUT : P15/PWM5H_OUT (Wire ID = 1000422)	Color	Default
	Name	PWM5H_OUT

Object	Property Name	Property Value
PWM5H_OUT : P15/PWM5H_OUT (Wire ID = 1000424)	Color	Default
	Name	PWM5H_OUT

Object	Property Name	Property Value
PWM6H_OUT : P15/PWM6H_OUT (Wire ID = 1000446)	Color	Default
	Name	PWM6H_OUT

Object	Property Name	Property Value
PWM6L_OUT : P15/PWM6L_OUT (Wire ID = 1000468)	Color	Default
	Name	PWM6L_OUT

Object	Property Name	Property Value
DVDD_5V0 : P15/DVDD_5V0 (Wire ID = 1073799 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DVDD_5V0 : P15/DVDD_5V0 (Wire ID = 1073803 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DVDD_5V0 : P15/DVDD_5V0 (Wire ID = 1073807 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DGND : P15/DGND (Wire ID = 1073865 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P15/DGND (Wire ID = 1073869 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P15/DGND (Wire ID = 1073873 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
PWM5H_OUT : P15/PWM5H_OUT (Wire ID = 1079021)	Color	Default
	Name	PWM5H_OUT

Object	Property Name	Property Value
AVDD_3V3	Name	AVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
AVDD_3V3	Name	AVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
AVDD_3V3	Name	AVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
AVDD_3V3	Name	AVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
AVDD_3V3	Name	AVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DVDD_5V0	Name	DVDD_5V0
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DVDD_5V0	Name	DVDD_5V0
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DVDD_5V0	Name	DVDD_5V0
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DVDD_5V0	Name	DVDD_5V0
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DVDD_5V0	Name	DVDD_5V0
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DVDD_5V0	Name	DVDD_5V0
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
PWM6L_IN : P15/PWM6L_IN	Name	PWM6L_IN
	Number	
	Swap Id	-1
	Type	Input
	Net Name	PWM6L
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
PWM6H_IN : P15/PWM6H_IN	Name	PWM6H_IN
	Number	
	Swap Id	-1
	Type	Input
	Net Name	PWM6H
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
PWM5H_IN : P15/PWM5H_IN	Name	PWM5H_IN
	Number	
	Swap Id	-1
	Type	Input
	Net Name	PWM5H
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
PWM6L_OUT : P15/PWM6L_OUT	Name	PWM6L_OUT
	Number	
	Swap Id	-1
	Type	Output
	Net Name	SERVO2
	Order	8
	Is No Connect	False

Object	Property Name	Property Value
PWM6H_OUT : P15/PWM6H_OUT	Name	PWM6H_OUT
	Number	
	Swap Id	-1
	Type	Output
	Net Name	SERVO3
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
VRC_PWM6L_BUF : P15/VRC_PWM6L_BUF	Name	VRC_PWM6L_BUF
	Number	
	Swap Id	-1
	Type	Output
	Net Name	RCDAC1
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
PWM5H_OUT : P15/PWM5H_OUT	Name	PWM5H_OUT
	Number	
	Swap Id	-1
	Type	Output
	Net Name	SERVO1
	Order	9
	Is No Connect	False

Object	Property Name	Property Value
SCL : P15/SCL	Name	SCL
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	ASCL2
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
SDA : P15/SDA	Name	SDA
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	ASDA2
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
SCL : P15/SCL	Name	SCL
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	ASCL2
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
SDA : P15/SDA	Name	SDA
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	ASDA2
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
VRC_PWM6H_BUF : P15/VRC_PWM6H_BUF	Name	VRC_PWM6H_BUF
	Number	
	Swap Id	-1
	Type	Output
	Net Name	RCDAC2
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
TitleBlockIntellitrol : P15/TitleBlockIntellitrol	Schematic Page Count	1
	Schematic Page Number	1
	Page Number	19
	Page Count	21
	Path Name	P15/TitleBlockIntellitrol
	Schematic Path	/P15
	ID	8918
	Doc	
	RevCode	0B
	Cage Code	
	Title	Servo motor - RC DAC
	OrgName	Jean-Francois Bilodeau, B.E.Eng
	OrgAddr1	CPI/CEP #6022173
	OrgAddr2	925 Chemin ste-foy apt4, QC, CANADA
	OrgAddr3	
	OrgAddr4	
	Name	TitleBlockIntellitrol
	Design Name	DSPEAK-V1_00-0B
	Design File Name	C:\USERS\JEANF\DESKTOP\GIT\DSPEAK\HARDWA
	Design Create Date	RE\V1_00-0B\CAPTURED
	Design Modify Date	Friday, November 13, 2020
	Design Create Time	Thursday, March 25, 2021
	Design Modify Time	18:59:24
	Schematic Name	
	Schematic Create Date	19:51:15
	Schematic Modify Date	Servo motor
	Schematic Create Time	Thursday, November 19, 2020
	Schematic Modify Time	Thursday, March 25, 2021
	Page Size	21:27:14
	Page Create Date	21:27:14
	Page Modify Date	Thursday, November 19, 2020
	Page Create Time	Thursday, March 25, 2021
	Page Modify Time	21:27:13
	Color	19:36:47
	Source Library	Default
	Source Symbol	C:\USERS\JEANF\GOOGLE DRIVE\ORCAD16LIB\PIECE\PART.OLB
	Page Name	TitleBlockIntellitrol
		SERVO

Object	Property Name	Property Value
INS986704 : P15/R124	Name	INS986704
	ID	3705
	Reference	R124
	Designator	
	Part Reference	R124
	Value	10k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_jpc
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-0710KL
	Description	RES SMD 10K OHM 1% 1/10W 0603
	Digi-Key PN	311-10.0KHRCT-ND
	digikey_id	{distributorPn:311-10.0KHRCT-ND,mfr:Yageo,mpn:RC0603FR-0710KL,ul:{uid}}

Object	Property Name	Property Value
1 : P15/R124/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N986732
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P15/R124/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS990911 : P15/U30	Name	INS990911
	ID	3805
	Reference	U30
	Designator	
	Part Reference	U30
	Value	MCP6L91
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:MCP6L91T-E/OTCT-ND,mfr:Microchip Technology,mpn:MCP6L91T-E/OTCT-ND}
	Digi-Key PN	MCP6L91T-E/OTCT-ND
	Description	IC OPAMP GP 1 CIRCUIT SOT23-5
	Manufacturer PN	MCP6L91T-E/OT
	Manufacturer	Microchip Technology
	PCB Footprint	sot23-5

Object	Property Name	Property Value
OUT : P15/U30/OUT	Name	OUT
	Number	1
	Swap Id	-1
	Type	Power
	Net Name	VRC_PWM6L_BUF
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
V- : P15/U30/V-	Name	V-
	Number	2
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
IN+ : P15/U30/IN+	Name	IN+
	Number	3
	Swap Id	-1
	Type	Input
	Net Name	VRC_PWM6L_UNBUF
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
IN- : P15/U30/IN-	Name	IN-
	Number	4
	Swap Id	-1
	Type	Input
	Net Name	VRC_PWM6L_BUF
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
V+ : P15/U30/V+	Name	V+
	Number	5
	Swap Id	-1
	Type	Power
	Net Name	AVDD_3V3
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
INS997703 : P15/R120	Name	INS997703
	ID	6904
	Reference	R120
	Designator	
	Part Reference	R120
	Value	10k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_jpc
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-0710KL
	Description	RES SMD 10K OHM 1% 1/10W 0603
	Digi-Key PN	311-10.0KHRCT-ND
	digikey_id	{distributorPn:311-10.0KHRCT-ND,mfr:Yageo,mpn:RC0603FR-0710KL,ul:{uid}}

Object	Property Name	Property Value
1 : P15/R120/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	PWMGL_OUT
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P15/R120/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_5V0
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1002190 : P15/Q1	Name	INS1002190
	ID	7030
	Reference	Q1
	Designator	
	Part Reference	Q1
	Value	BS170FTA
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:BS170FCT-ND,mfr:Diodes Incorporated,mpn:BS170FTA,ul:{uid}}
	Digi-Key PN	BS170FCT-ND
	Description	MOSFET N-CH 60V 0.15MA SOT23-3
	Manufacturer PN	BS170FTA
	Manufacturer	Diodes Incorporated
	PCB Footprint	sot23-3
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
G : P15/Q1/G	Name	G
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
D : P15/Q1/D	Name	D
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	PWM6L_OUT
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
S : P15/Q1/S	Name	S
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N99766
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
INS996727 : P15/D36	Name	INS996727
	ID	6478
	Reference	D36
	Designator	
	Part Reference	D36
	Value	TVS 3V3 SL
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	SOD323
	Manufacturer	ON Semiconductor
	Manufacturer PN	SZESD8351HT1G
	Description	TVS DIODE 3.3VWM 11.2VC SOD323
	Digi-Key PN	SZESD8351HT1GOSCT-ND
	digikey_id	{distributorPn:SZESD8351HT1GOSCT-ND,mfr:ON Semiconductor,mpn:SZESD8351HT1G}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
ANODE : P15/D36/ANODE	Name	ANODE
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
CATHODE : P15/D36/CATHODE	Name	CATHODE
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	VRC_PWM6L_BUF
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS996882 : P15/D38	Name	INS996882
	ID	6484
	Reference	D38
	Designator	
	Part Reference	D38
	Value	TVS 3V3 SL
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	SOD323
	Manufacturer	ON Semiconductor
	Manufacturer PN	SZESD8351HT1G
	Description	TVS DIODE 3.3VWM 11.2VC SOD323
	Digi-Key PN	SZESD8351HT1GOSCT-ND
	digikey_id	{distributorPn:SZESD8351HT1GOSCT-ND,mfr:ON Semiconductor,mpn:SZESD8351HT1G}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
ANODE : P15/D38/ANODE	Name	ANODE
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
CATHODE : P15/D38/CATHODE	Name	CATHODE
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	VRC_PWM6H_BUF
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1002532 : P15/Q3	Name	INS1002532
	ID	7038
	Reference	Q3
	Designator	
	Part Reference	Q3
	Value	BS170FTA
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:BS170FCT-ND,mfr:Diodes Incorporated,mpn:BS170FTA,ul:{uid}}
	Digi-Key PN	BS170FCT-ND
	Description	MOSFET N-CH 60V 0.15MA SOT23-3
	Manufacturer PN	BS170FTA
	Manufacturer	Diodes Incorporated
	PCB Footprint	sot23-3
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
G : P15/Q3/G	Name	G
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
D : P15/Q3/D	Name	D
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	PWM5H_OUT
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
S : P15/Q3/S	Name	S
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	PWM5H_IN
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
INS985603 : P15/C122	Name	INS985603
	ID	3674
	Reference	C122
	Designator	
	Part Reference	C122
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P15/C122/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P15/C122/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS986206 : P15/U28	Name	INS986206
	ID	3689
	Reference	U28
	Designator	
	Part Reference	U28
	Value	AD5245BRJZ5
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:AD5245BRJZ50-RL7CT-ND,mfr:Analog Devices Inc.,mpn:AD5245BRJZ50-RL7CT-ND}
	Digi-Key PN	AD5245BRJZ50-RL7CT-ND
	Description	IC DGT POT 50KOHM 256TAP SOT23-8
	Manufacturer PN	AD5245BRJZ50-RL7CT-ND
	Manufacturer	Analog Devices Inc.
	PCB Footprint	SOT23-8
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
W : P15/U28/W	Name	W
	Number	1
	Swap Id	-1
	Type	Input
	Net Name	VRC_PWM6L_UNBUF
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
VDD : P15/U28/VDD	Name	VDD
	Number	2
	Swap Id	-1
	Type	Power
	Net Name	AVDD_3V3
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
GND : P15/U28/GND	Name	GND
	Number	3
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
SCL : P15/U28/SCL	Name	SCL
	Number	4
	Swap Id	-1
	Type	Bidirectional
	Net Name	SCL
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
SDA : P15/U28/SDA	Name	SDA
	Number	5
	Swap Id	-1
	Type	Bidirectional
	Net Name	SDA
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
AD0 : P15/U28/AD0	Name	AD0
	Number	6
	Swap Id	-1
	Type	Input
	Net Name	N986622
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
B : P15/U28/B	Name	B
	Number	7
	Swap Id	-1
	Type	Bidirectional
	Net Name	
	Order	6
	Is No Connect	True

Object	Property Name	Property Value
A : P15/U28/A	Name	A
	Number	8
	Swap Id	-1
	Type	Bidirectional
	Net Name	N989120
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
INS991792 : P15/C125	Name	INS991792
	ID	3824
	Reference	C125
	Designator	
	Part Reference	C125
	Value	1nF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	AVX Corporation
	Manufacturer PN	06035C102KAT2A
	Description	CAP CER 1000PF 50V X7R 0603
	Digi-Key PN	478-1215-1-ND
	digikey_id	{distributorPn:478-1215-1-ND,mfr:AVX Corporation,mpn:06035C102KAT2A,uln:
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P15/C125/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P15/C125/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS997588 : P15/JP3	Name	INS997588
	ID	6892
	Reference	JP3
	Designator	
	Part Reference	JP3
	Value	header3p100
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:S1012EC-03-ND,mfr:Sullins Connector Solutions,mpn:PREC003SAAN-RC}
	Digi-Key PN	S1012EC-03-ND
	Description	CONN HEADER VERT 3POS 2.54MM
	Manufacturer PN	PREC003SAAN-RC
	Manufacturer	Sullins Connector Solutions
	PCB Footprint	small_header3p100
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P15/JP3/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N997666
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P15/JP3/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	PWM6L_IN
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
3 : P15/JP3/3	Name	3
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	N989120
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
INS993060 : P15/U31	Name	INS993060
	ID	3840
	Reference	U31
	Designator	
	Part Reference	U31
	Value	MCP6L91
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:MCP6L91T-E/OTCT-ND,mfr:Microchip Technology,mpn:MCP6L91T-E/OTCT-ND}
	Digi-Key PN	MCP6L91T-E/OTCT-ND
	Description	IC OPAMP GP 1 CIRCUIT SOT23-5
	Manufacturer PN	MCP6L91T-E/OT
	Manufacturer	Microchip Technology
	PCB Footprint	sot23-5

Object	Property Name	Property Value
OUT : P15/U31/OUT	Name	OUT
	Number	1
	Swap Id	-1
	Type	Power
	Net Name	VRC_PWM6H_BUF
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
V- : P15/U31/V-	Name	V-
	Number	2
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
IN+ : P15/U31/IN+	Name	IN+
	Number	3
	Swap Id	-1
	Type	Input
	Net Name	VRC_PWM6H_UNBUF
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
IN- : P15/U31/IN-	Name	IN-
	Number	4
	Swap Id	-1
	Type	Input
	Net Name	VRC_PWM6H_BUF
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
V+ : P15/U31/V+	Name	V+
	Number	5
	Swap Id	-1
	Type	Power
	Net Name	AVDD_3V3
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
INS988836 : P15/C119	Name	INS988836
	ID	3752
	Reference	C119
	Designator	
	Part Reference	C119
	Value	4.7nF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B472KB8NNNC
	Description	CAP CER 4700PF 50V X7R 0603
	Digi-Key PN	1276-1098-1-ND
	digikey_id	{distributorPn:1276-1098-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B472KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P15/C119/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	VRC_PWM6L_UNBUF
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P15/C119/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS996801 : P15/D37	Name	INS996801
	ID	6481
	Reference	D37
	Designator	
	Part Reference	D37
	Value	TVS 5V0 SL
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	DO-219AB
	Manufacturer	Vishay General Semiconductor - Diodes Division
	Manufacturer PN	SMF5V0A-E3-08
	Description	TVS DIODE 5V 9.2V SMF
	Digi-Key PN	SMF5V0A-E3-08CT-ND
	digkey_id	{distributorPn:SMF5V0A-E3-08CT-ND,mfr:Vishay General Semiconductor - Diodes Division}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
ANODE : P15/D37/ANODE	Name	ANODE
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
CATHODE : P15/D37/CATHODE	Name	CATHODE
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	PWM6H_OUT
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1085720 : P15/TP69	Name	INS1085720
	ID	8637
	Reference	TP69
	Designator	
	Part Reference	TP69
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P15/TP69/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	VRC_PWM6H_UNBUF
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1000259 : P15/JP4	Name	INS1000259
	ID	6942
	Reference	JP4
	Designator	
	Part Reference	JP4
	Value	header3p100
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:S1012EC-03-ND,mfr:Sullins Connector Solutions,mpn:PRECO003SAAN-RC}
	Digi-Key PN	S1012EC-03-ND
	Description	CONN HEADER VERT 3POS 2.54MM
	Manufacturer PN	PRECO003SAAN-RC
	Manufacturer	Sullins Connector Solutions
	PCB Footprint	small_header3p100
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P15/JP4/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N999350
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P15/JP4/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	PWM6H_IN
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
3 : P15/JP4/3	Name	3
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	N1000279
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
INS991932 : P15/C123	Name	INS991932
	ID	3829
	Reference	C123
	Designator	
	Part Reference	C123
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P15/C123/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P15/C123/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS988991 : P15/C120	Name	INS988991
	ID	3759
	Reference	C120
	Designator	
	Part Reference	C120
	Value	4.7nF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B472KB8NNNC
	Description	CAP CER 4700PF 50V X7R 0603
	Digi-Key PN	1276-1098-1-ND
	digikey_id	{distributorPn:1276-1098-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B472KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P15/C120/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	VRC_PWM6H_UNBUF
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P15/C120/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS996956 : P15/D39	Name	INS996956
	ID	6487
	Reference	D39
	Designator	
	Part Reference	D39
	Value	TVS 5V0 SL
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	DO-219AB
	Manufacturer	Vishay General Semiconductor - Diodes Division
	Manufacturer PN	SMF5V0A-E3-08
	Description	TVS DIODE 5V 9.2V SMF
	Digi-Key PN	SMF5V0A-E3-08CT-ND
	digikey_id	{distributorPn:SMF5V0A-E3-08CT-ND,mfr:Vishay General Semiconductor - Diodes Division}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
ANODE : P15/D39/ANODE	Name	ANODE
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
CATHODE : P15/D39/CATHODE	Name	CATHODE
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	PWM5H_OUT
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS993004 : P15/C124	Name	INS993004
	ID	3849
	Reference	C124
	Designator	
	Part Reference	C124
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P15/C124/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P15/C124/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS999294 : P15/R118	Name	INS999294
	ID	6917
	Reference	R118
	Designator	
	Part Reference	R118
	Value	10k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-0710KL
	Description	RES SMD 10K OHM 1% 1/10W 0603
	Digi-Key PN	311-10.0KHRCT-ND
	digikey_id	{distributorPn:311-10.0KHRCT-ND,mfr:Yageo,mpn:RC0603FR-0710KL,ul:{uid}}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P15/R118/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N999350
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P15/R118/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS999312 : P15/R121	Name	INS999312
	ID	6924
	Reference	R121
	Designator	
	Part Reference	R121
	Value	10k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-0710KL
	Description	RES SMD 10K OHM 1% 1/10W 0603
	Digi-Key PN	311-10.0KHRCT-ND
	digikey_id	{distributorPn:311-10.0KHRCT-ND,mfr:Yageo,mpn:RC0603FR-0710KL,ul:{uid}}

Object	Property Name	Property Value
1 : P15/R121/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	PWM6H_OUT
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P15/R121/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_5V0
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS993022 : P15/C126	Name	INS993022
	ID	3852
	Reference	C126
	Designator	
	Part Reference	C126
	Value	1nF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	AVX Corporation
	Manufacturer PN	06035C102KAT2A
	Description	CAP CER 1000PF 50V X7R 0603
	Digi-Key PN	478-1215-1-ND
	digkey_id	{distributorPn:478-1215-1-ND,mfr:AVX Corporation,mpn:06035C102KAT2A,u
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P15/C126/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P15/C126/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1085690 : P15/TP68	Name	INS1085690
	ID	8635
	Reference	TP68
	Designator	
	Part Reference	TP68
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P15/TP68/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	VRC_PWM6L_UNBUF
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS986445 : P15/R123	Name	INS986445
	ID	3700
	Reference	R123
	Designator	
	Part Reference	R123
	Value	10k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-0710KL
	Description	RES SMD 10K OHM 1% 1/10W 0603
	Digi-Key PN	311-10.0KHRCT-ND
	digikey_id	{distributorPn:311-10.0KHRCT-ND,mfr:Yageo,mpn:RC0603FR-0710KL,ul:{uid}}

Object	Property Name	Property Value
1 : P15/R123/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N986622
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P15/R123/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS997648 : P15/R117	Name	INS997648
	ID	6900
	Reference	R117
	Designator	
	Part Reference	R117
	Value	10k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-0710KL
	Description	RES SMD 10K OHM 1% 1/10W 0603
	Digi-Key PN	311-10.0KHRCT-ND
	digikey_id	{distributorPn:311-10.0KHRCT-ND,mfr:Yageo,mpn:RC0603FR-0710KL,ul:{uid}}

Object	Property Name	Property Value
1 : P15/R117/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N997666
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P15/R117/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1073809 : P15/C127	Name	INS1073809
	ID	7050
	Reference	C127
	Designator	
	Part Reference	C127
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P15/C127/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_5V0
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P15/C127/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1002390 : P15/Q2	Name	INS1002390
	ID	7034
	Reference	Q2
	Designator	
	Part Reference	Q2
	Value	BS170FTA
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:BS170FCT-ND,mfr:Diodes Incorporated,mpn:BS170FTA,ul:{uid}}
	Digi-Key PN	BS170FCT-ND
	Description	MOSFET N-CH 60V 0.15MA SOT23-3
	Manufacturer PN	BS170FTA
	Manufacturer	Diodes Incorporated
	PCB Footprint	sot23-3
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
G : P15/Q2/G	Name	G
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
D : P15/Q2/D	Name	D
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	PWM6H_OUT
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
S : P15/Q2/S	Name	S
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N999350
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
INS999553 : P15/R119	Name	INS999553
	ID	6934
	Reference	R119
	Designator	
	Part Reference	R119
	Value	10k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-0710KL
	Description	RES SMD 10K OHM 1% 1/10W 0603
	Digi-Key PN	311-10.0KHRCT-ND
	digikey_id	{distributorPn:311-10.0KHRCT-ND,mfr:Yageo,mpn:RC0603FR-0710KL,ul:{uid}}

Object	Property Name	Property Value
1 : P15/R119/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	PWM5H_IN
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P15/R119/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS996485 : P15/D35	Name	INS996485
	ID	6475
	Reference	D35
	Designator	
	Part Reference	D35
	Value	TVS 5V0 SL
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	DO-219AB
	Manufacturer	Vishay General Semiconductor - Diodes Division
	Manufacturer PN	SMF5V0A-E3-08
	Description	TVS DIODE 5V 9.2V SMF
	Digi-Key PN	SMF5V0A-E3-08CT-ND
	digikey_id	{distributorPn:SMF5V0A-E3-08CT-ND,mfr:Vishay General Semiconductor - Diodes Division}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
ANODE : P15/D35/ANODE	Name	ANODE
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
CATHODE : P15/D35/CATHODE	Name	CATHODE
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	PWM6L_OUT
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS999571 : P15/R122	Name	INS999571
	ID	6937
	Reference	R122
	Designator	
	Part Reference	R122
	Value	10k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-0710KL
	Description	RES SMD 10K OHM 1% 1/10W 0603
	Digi-Key PN	311-10.0KHRCT-ND
	digikey_id	{distributorPn:311-10.0KHRCT-ND,mfr:Yageo,mpn:RC0603FR-0710KL,ul:{uid}}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P15/R122/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	PWM5H_OUT
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P15/R122/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_5V0
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS986879 : P15/U29	Name	INS986879
	ID	3710
	Reference	U29
	Designator	
	Part Reference	U29
	Value	AD5245BRJZ50
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:AD5245BRJZ50-RL7CT-ND,mfr:Analog Devices Inc.,mpn:AD5245BRJZ50-RL7CT-ND}
	Digi-Key PN	AD5245BRJZ50-RL7CT-ND
	Description	IC DGT POT 50KOHM 256TAP SOT23-8
	Manufacturer PN	AD5245BRJZ50-RL7
	Manufacturer	Analog Devices Inc.
	PCB Footprint	SOT23-8
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
W : P15/U29/W	Name	W
	Number	1
	Swap Id	-1
	Type	Input
	Net Name	VRC_PWM6H_UNBUF
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
VDD : P15/U29/VDD	Name	VDD
	Number	2
	Swap Id	-1
	Type	Power
	Net Name	AVDD_3V3
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
GND : P15/U29/GND	Name	GND
	Number	3
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
SCL : P15/U29/SCL	Name	SCL
	Number	4
	Swap Id	-1
	Type	Bidirectional
	Net Name	SCL
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
SDA : P15/U29/SDA	Name	SDA
	Number	5
	Swap Id	-1
	Type	Bidirectional
	Net Name	SDA
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
AD0 : P15/U29/AD0	Name	AD0
	Number	6
	Swap Id	-1
	Type	Input
	Net Name	N986732
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
B : P15/U29/B	Name	B
	Number	7
	Swap Id	-1
	Type	Bidirectional
	Net Name	
	Order	6
	Is No Connect	True

Object	Property Name	Property Value
A : P15/U29/A	Name	A
	Number	8
	Swap Id	-1
	Type	Bidirectional
	Net Name	N1000279
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
INS1073827 : P15/C128	Name	INS1073827
	ID	7053
	Reference	C128
	Designator	
	Part Reference	C128
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P15/C128/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_5V0
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P15/C128/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS985445 : P15/C121	Name	INS985445
	ID	3666
	Reference	C121
	Designator	
	Part Reference	C121
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P15/C121/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P15/C121/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1073845 : P15/C129	Name	INS1073845
	ID	7047
	Reference	C129
	Designator	
	Part Reference	C129
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P15/C129/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_5V0
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P15/C129/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
Line	Name	I1062257
	Color	Default
	Start X-Coordinate	10
	Start Y-Coordinate	650
	End X-Coordinate	510
	End Y-Coordinate	650

Object	Property Name	Property Value
Capacitor are 0603 -20% 16V unless otherwise noted	Name	I1062251
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	515
	Bounding Box Top	680
	Bounding Box Bottom	696
	Text	Capacitor are 0603 -20% 16V unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	680
	Font	Courier New

Object	Property Name	Property Value
Resistors are 0603 -1% 1/10W unless otherwise noted	Name	I1062263
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	525
	Bounding Box Top	660
	Bounding Box Bottom	676
	Text	Resistors are 0603 -1% 1/10W unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	660
	Font	Courier New

Object	Property Name	Property Value
USB-UART Converter SW debug interface	Name	I1081272
	Color	Default
	Bounding Box Left	790
	Bounding Box Right	938
	Bounding Box Top	10
	Bounding Box Bottom	36
	Text	USB-UART Converter SW debug interface
	Text Location X-Coordinate	790
	Text Location Y-Coordinate	10
	Font	Courier New

Object	Property Name	Property Value
Self-powered configuration	Name	I1090808
	Color	Default
	Bounding Box Left	410
	Bounding Box Right	622
	Bounding Box Top	400
	Bounding Box Bottom	413
	Text	Self-powered configuration
	Text Location X-Coordinate	410
	Text Location Y-Coordinate	400
	Font	Courier New

Object	Property Name	Property Value
UART_RX : P3/UART_RX (Wire ID = 851783 )	Color	Default
	Name	UART_RX

Object	Property Name	Property Value
UART_RX : P3/UART_RX (Wire ID = 851789 )	Color	Default
	Name	UART_RX

Object	Property Name	Property Value
UART_TX : P3/UART_TX (Wire ID = 851793 )	Color	Default
	Name	UART_TX

Object	Property Name	Property Value
UART_TX : P3/UART_TX (Wire ID = 851799 )	Color	Default
	Name	UART_TX

Object	Property Name	Property Value
DVDD_3V3 : P3/DVDD_3V3 (Wire ID = 851819 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P3/DVDD_3V3 (Wire ID = 851843 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P3/DVDD_3V3 (Wire ID = 851847 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
RSTb : P3/RSTB (Wire ID = 852169 )	Color	Default
	Name	RSTB

Object	Property Name	Property Value
N852175 : P3/N852175 (Wire ID = 852175 )	Color	Default
	Name	N852175

Object	Property Name	Property Value
N852179 : P3/N852179 (Wire ID = 852179 )	Color	Default
	Name	N852179

Object	Property Name	Property Value
DGND : P3/DGND (Wire ID = 852183 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P3/DGND (Wire ID = 852187 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
D+ : P3/D+ (Wire ID = 852209 )	Color	Default
	Name	D+

Object	Property Name	Property Value
D- : P3/D- (Wire ID = 852241 )	Color	Default
	Name	D-

Object	Property Name	Property Value
DVDD_3V3 : P3/DVDD_3V3 (Wire ID = 852247 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
TX_led : P3/TX_LED (Wire ID = 852251 )	Color	Default
	Name	TX_LED

Object	Property Name	Property Value
DVDD_3V3 : P3/DVDD_3V3 (Wire ID = 852255 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P3/DVDD_3V3 (Wire ID = 852259 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
TX_led : P3/TX_LED (Wire ID = 852263 )	Color	Default
	Name	TX_LED

Object	Property Name	Property Value
RX_led : P3/RX_LED (Wire ID = 852269 )	Color	Default
	Name	RX_LED

Object	Property Name	Property Value
DVDD_3V3 : P3/DVDD_3V3 (Wire ID = 852273 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P3/DVDD_3V3 (Wire ID = 852277 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
RX_led : P3/RX_LED (Wire ID = 852281 )	Color	Default
	Name	RX_LED

Object	Property Name	Property Value
DGND : P3/DGND (Wire ID = 852287 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P3/DGND (Wire ID = 852291 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DVDD_3V3 : P3/DVDD_3V3 (Wire ID = 852299 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P3/DVDD_3V3 (Wire ID = 852303 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
RSTb : P3/RSTB (Wire ID = 852307 )	Color	Default
	Name	RSTB

Object	Property Name	Property Value
DVDD_3V3 : P3/DVDD_3V3 (Wire ID = 852313 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P3/DVDD_3V3 (Wire ID = 852317 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P3/DVDD_3V3 (Wire ID = 852321 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P3/DVDD_3V3 (Wire ID = 852325 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P3/DVDD_3V3 (Wire ID = 852337 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DGND : P3/DGND (Wire ID = 852417 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P3/DGND (Wire ID = 852421 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DVDD_3V3 : P3/DVDD_3V3 (Wire ID = 852629 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P3/DVDD_3V3 (Wire ID = 852634 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P3/DVDD_3V3 (Wire ID = 852645 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
UART_RX : P3/UART_RX (Wire ID = 1073844 )	Color	Default
	Name	UART_RX

Object	Property Name	Property Value
D+ : P3/D+ (Wire ID = 1073862 )	Color	Default
	Name	D+

Object	Property Name	Property Value
D- : P3/D- (Wire ID = 1073875 )	Color	Default
	Name	D-

Object	Property Name	Property Value
UART_TX : P3/UART_TX (Wire ID = 1073888 )	Color	Default
	Name	UART_TX

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
D+ : P3/D+	Name	D+
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	USB_UART_D+_BRIDGE
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
D- : P3/D-	Name	D-
	Number	
	Swap Id	-1
	Type	Bidirectional
	Net Name	USB_UART_D-_BRIDGE
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
UART_RX : P3/UART_RX	Name	UART_RX
	Number	
	Swap Id	-1
	Type	Output
	Net Name	UART3_RX
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
UART_TX : P3/UART_TX	Name	UART_TX
	Number	
	Swap Id	-1
	Type	Input
	Net Name	UART3_TX
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
TitleBlockIntellitrol : P3/TitleBlockIntellitrol	Schematic Page Count	1
	Schematic Page Number	1
	Page Number	20
	Page Count	21
	Path Name	P3/TitleBlockIntellitrol
	Schematic Path	/P3
	ID	8919
	Doc	
	RevCode	0B
	Cage Code	
	Title	USB - UART CP2102N bridge
	OrgName	Jean-Francois Bilodeau, B.E.Eng
	OrgAddr1	CPI/CEP #6022173
	OrgAddr2	925 Chemin ste-foy apt4, QC, CANADA
	OrgAddr3	
	OrgAddr4	
	Name	TitleBlockIntellitrol
	Design Name	DSPEAK-V1_00-0B
	Design File Name	C:\USERS\JEANF\Desktop\GIT\DSPEAK\HARDWA
	Design Create Date	Friday, November 13, 2020
	Design Modify Date	Thursday, March 25, 2021
	Design Create Time	18:59:24
	Design Modify Time	19:51:15
	Schematic Name	USB-UART
	Schematic Create Date	Sunday, November 29, 2020
	Schematic Modify Date	Thursday, March 25, 2021
	Schematic Create Time	09:21:18
	Schematic Modify Time	19:36:18
	Page Size	A
	Page Create Date	Sunday, November 29, 2020
	Page Modify Date	Thursday, March 25, 2021
	Page Create Time	09:21:17
	Page Modify Time	19:36:16
	Color	Default
	Source Library	C:\USERS\JEANF\GOOGLE DRIVE\ORCAD16LIB\PIECE\PART.OLB
	Source Symbol	TitleBlockIntellitrol
	Page Name	USB-UART

Object	Property Name	Property Value
INS851903 : P3/U32	Name	INS851903
	ID	7064
	Reference	U32
	Designator	
	Part Reference	U32
	Value	CP1202N-QFN24
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:336-5888-1-ND,mfr:Silicon Labs,mpn:CP2102N-A02-GQFN24R}
	Digi-Key PN	336-5888-1-ND
	Description	IC USB TO UART BRIDGE QFN24
	Manufacturer PN	CP2102N-A02-GQFN24R
	Manufacturer	Silicon Labs
	PCB Footprint	QFN24_PAD
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
CLK : P3/U32/CLK	Name	CLK
	Number	1
	Swap Id	-1
	Type	Bidirectional
	Net Name	
	Order	0
	Is No Connect	True

Object	Property Name	Property Value
GND : P3/U32/GND	Name	GND
	Number	2
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
D+ : P3/U32/D+	Name	D+
	Number	3
	Swap Id	-1
	Type	Bidirectional
	Net Name	D+
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
D- : P3/U32/D-	Name	D-
	Number	4
	Swap Id	-1
	Type	Bidirectional
	Net Name	D-
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
VIO : P3/U32/VIO	Name	VIO
	Number	5
	Swap Id	-1
	Type	Power
	Net Name	DVDD_3V3
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
VDD : P3/U32/VDD	Name	VDD
	Number	6
	Swap Id	-1
	Type	Power
	Net Name	DVDD_3V3
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
VREGIN : P3/U32/VREGIN	Name	VREGIN
	Number	7
	Swap Id	-1
	Type	Power
	Net Name	DVDD_3V3
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
VBUS : P3/U32/VBUS	Name	VBUS
	Number	8
	Swap Id	-1
	Type	Power
	Net Name	DVDD_3V3
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
RSTB : P3/U32/RSTB	Name	RSTB
	Number	9
	Swap Id	-1
	Type	Input
	Net Name	RSTb
	Order	8
	Is No Connect	False

Object	Property Name	Property Value
NC1 : P3/U32/NC1	Name	NC1
	Number	10
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	9
	Is No Connect	True

Object	Property Name	Property Value
IO3 : P3/U32/IO3	Name	IO3
	Number	11
	Swap Id	-1
	Type	Bidirectional
	Net Name	
	Order	10
	Is No Connect	True

Object	Property Name	Property Value
IO2 : P3/U32/IO2	Name	IO2
	Number	12
	Swap Id	-1
	Type	Bidirectional
	Net Name	
	Order	11
	Is No Connect	True

Object	Property Name	Property Value
IO1 : P3/U32/IO1	Name	IO1
	Number	13
	Swap Id	-1
	Type	Bidirectional
	Net Name	RX_led
	Order	12
	Is No Connect	False

Object	Property Name	Property Value
IO0 : P3/U32/IO0	Name	IO0
	Number	14
	Swap Id	-1
	Type	Bidirectional
	Net Name	TX_led
	Order	13
	Is No Connect	False

Object	Property Name	Property Value
SUSPB : P3/U32/SUSPB	Name	SUSPB
	Number	15
	Swap Id	-1
	Type	Bidirectional
	Net Name	
	Order	14
	Is No Connect	True

Object	Property Name	Property Value
NC2 : P3/U32/NC2	Name	NC2
	Number	16
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	15
	Is No Connect	True

Object	Property Name	Property Value
SUSP : P3/U32/SUSP	Name	SUSP
	Number	17
	Swap Id	-1
	Type	Bidirectional
	Net Name	
	Order	16
	Is No Connect	True

Object	Property Name	Property Value
CTS : P3/U32/CTS	Name	CTS
	Number	18
	Swap Id	-1
	Type	Bidirectional
	Net Name	
	Order	17
	Is No Connect	True

Object	Property Name	Property Value
RTS : P3/U32/RTS	Name	RTS
	Number	19
	Swap Id	-1
	Type	Bidirectional
	Net Name	
	Order	18
	Is No Connect	True

Object	Property Name	Property Value
RXD : P3/U32/RXD	Name	RXD
	Number	20
	Swap Id	-1
	Type	Bidirectional
	Net Name	UART_RX
	Order	19
	Is No Connect	False

Object	Property Name	Property Value
TXD : P3/U32/TXD	Name	TXD
	Number	21
	Swap Id	-1
	Type	Bidirectional
	Net Name	UART_RX
	Order	20
	Is No Connect	False

Object	Property Name	Property Value
DSR : P3/U32/DSR	Name	DSR
	Number	22
	Swap Id	-1
	Type	Bidirectional
	Net Name	
	Order	21
	Is No Connect	True

Object	Property Name	Property Value
DTR : P3/U32/DTR	Name	DTR
	Number	23
	Swap Id	-1
	Type	Bidirectional
	Net Name	
	Order	22
	Is No Connect	True

Object	Property Name	Property Value
DCD : P3/U32/DCD	Name	DCD
	Number	24
	Swap Id	-1
	Type	Bidirectional
	Net Name	
	Order	23
	Is No Connect	True

Object	Property Name	Property Value
PAD : P3/U32/PAD	Name	PAD
	Number	25
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	24
	Is No Connect	False

Object	Property Name	Property Value
INS1079546 : P3/TP70	Name	INS1079546
	ID	8564
	Reference	TP70
	Designator	
	Part Reference	TP70
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P3/TP70/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	UART_RX
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS852189 : P3/R126	Name	INS852189
	ID	7105
	Reference	R126
	Designator	
	Part Reference	R126
	Value	120R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:311-4.70KHRDKR-ND,mfr:Yageo,mpn:RC0603FR-074K7L,ul:u}
	Digi-Key PN	311-4.70KHRDKR-ND
	Description	RES SMD 4.7K OHM 1% 1/10W 0603
	Manufacturer PN	RC0603FR-074K7L
	Manufacturer	Yageo
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P3/R126/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	TX_led
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P3/R126/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N852175
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS851849 : P3/R125	Name	INS851849
	ID	7093
	Reference	R125
	Designator	
	Part Reference	R125
	Value	10k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-0710KL
	Description	RES SMD 10K OHM 1% 1/10W 0603
	Digi-Key PN	311-10.0KHRCT-ND
	digikey_id	{distributorPn:311-10.0KHRCT-ND,mfr:Yageo,mpn:RC0603FR-0710KL,ul:{uid}}

Object	Property Name	Property Value
1 : P3/R125/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P3/R125/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	RSTb
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS851867 : P3/D40	Name	INS851867
	ID	7099
	Reference	D40
	Designator	
	Part Reference	D40
	Value	LED
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	dio_0603
	Manufacturer	Würth Elektronik
	Manufacturer PN	150060GS75000
	Description	LED GREEN CLEAR 0603 SMD
	Digi-Key PN	732-4971-1-ND
	digikey_id	{distributorPn:732-4971-1-ND,mfr:Würth Elektronik,mpn:150060GS75000}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
ANODE : P3/D40/ANODE	Name	ANODE
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
CATHODE : P3/D40/CATHODE	Name	CATHODE
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N852175
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS852343 : P3/C130	Name	INS852343
	ID	7102
	Reference	C130
	Designator	
	Part Reference	C130
	Value	10uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0805_cap
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL21A106KOQNNNG
	Description	CAP CER 10uF 16V X5R 0805
	Digi-Key PN	1276-6455-1-ND
	digikey_id	{distributorPn:1276-6455-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL21A106KOQNNNG}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P3/C130/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P3/C130/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS851885 : P3/D41	Name	INS851885
	ID	7058
	Reference	D41
	Designator	
	Part Reference	D41
	Value	LED
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	dio_0603
	Manufacturer	Würth Elektronik
	Manufacturer PN	150060GS75000
	Description	LED GREEN CLEAR 0603 SMD
	Digi-Key PN	732-4971-1-ND
	digikey_id	{distributorPn:732-4971-1-ND,mfr:Würth Elektronik,mpn:150060GS75000}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
ANODE : P3/D41/ANODE	Name	ANODE
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
CATHODE : P3/D41/CATHODE	Name	CATHODE
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N852179
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS852361 : P3/C131	Name	INS852361
	ID	7108
	Reference	C131
	Designator	
	Part Reference	C131
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P3/C131/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P3/C131/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1079602 : P3/TP71	Name	INS1079602
	ID	8566
	Reference	TP71
	Designator	
	Part Reference	TP71
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P3/TP71/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	UART_TX
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS852213 : P3/R127	Name	INS852213
	ID	7096
	Reference	R127
	Designator	
	Part Reference	R127
	Value	120R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:311-4.70KHRDKR-ND,mfr:Yageo,mpn:RC0603FR-074K7L,ul:u}
	Digi-Key PN	311-4.70KHRDKR-ND
	Description	RES SMD 4.7K OHM 1% 1/10W 0603
	Manufacturer PN	RC0603FR-074K7L
	Manufacturer	Yageo
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P3/R127/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	RX_led
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P3/R127/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N852179
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
Line	Name	I998112
	Color	Default
	Start X-Coordinate	10
	Start Y-Coordinate	890
	End X-Coordinate	610
	End Y-Coordinate	890

Object	Property Name	Property Value
Resistors are 0603 -1% 1/10W unless otherwise noted	Name	I998100
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	576
	Bounding Box Top	900
	Bounding Box Bottom	919
	Text	Resistors are 0603 -1% 1/10W unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	900
	Font	Courier New

Object	Property Name	Property Value
Capacitor are 0603 -20% 16V unless otherwise noted	Name	I998106
	Color	Default
	Bounding Box Left	10
	Bounding Box Right	565
	Bounding Box Top	920
	Bounding Box Bottom	939
	Text	Capacitor are 0603 -20% 16V unless otherwise noted
	Text Location X-Coordinate	10
	Text Location Y-Coordinate	920
	Font	Courier New

Object	Property Name	Property Value
Analog potentiometer	Name	I1091220
	Color	Default
	Bounding Box Left	150
	Bounding Box Right	314
	Bounding Box Top	310
	Bounding Box Bottom	323
	Text	Analog potentiometer
	Text Location X-Coordinate	150
	Text Location Y-Coordinate	310
	Font	Courier New

Object	Property Name	Property Value
General purpose I/O	Name	I1091226
	Color	Default
	Bounding Box Left	1334
	Bounding Box Right	1490
	Bounding Box Top	17
	Bounding Box Bottom	30
	Text	General purpose I/O
	Text Location X-Coordinate	1334
	Text Location Y-Coordinate	17
	Font	Courier New

Object	Property Name	Property Value
Software PWM Buzzer	Name	I1091242
	Color	Default
	Bounding Box Left	144
	Bounding Box Right	300
	Bounding Box Top	590
	Bounding Box Bottom	603
	Text	Software PWM Buzzer
	Text Location X-Coordinate	144
	Text Location Y-Coordinate	590
	Font	Courier New

Object	Property Name	Property Value
RGB LED	Name	I1091250
	Color	Default
	Bounding Box Left	238
	Bounding Box Right	298
	Bounding Box Top	820
	Bounding Box Bottom	833
	Text	RGB LED
	Text Location X-Coordinate	238
	Text Location Y-Coordinate	820
	Font	Courier New

Object	Property Name	Property Value
4x SPST buttons	Name	I1091258
	Color	Default
	Bounding Box Left	710
	Bounding Box Right	834
	Bounding Box Top	850
	Bounding Box Bottom	863
	Text	4x SPST buttons
	Text Location X-Coordinate	710
	Text Location Y-Coordinate	850
	Font	Courier New

Object	Property Name	Property Value
4x LEDs	Name	I1091266
	Color	Default
	Bounding Box Left	1258
	Bounding Box Right	1318
	Bounding Box Top	790
	Bounding Box Bottom	803
	Text	4x LEDs
	Text Location X-Coordinate	1258
	Text Location Y-Coordinate	790
	Font	Courier New

Object	Property Name	Property Value
DVDD_5V0 : P19/DVDD_5V0 (Wire ID = 996892 )	Color	Default
DVDD_5V0 : P19/DVDD_5V0 (Wire ID = 996892 )	Name	DVDD_5V0

Object	Property Name	Property Value
DVDD_5V0 : P19/DVDD_5V0 (Wire ID = 996896 )	Color	Default
DVDD_5V0 : P19/DVDD_5V0 (Wire ID = 996896 )	Name	DVDD_5V0

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DVDD_5V0 : P19/DVDD_5V0 (Wire ID = 996900 )	Color	Default
	Name	DVDD_5V0

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DVDD_5V0 : P19/DVDD_5V0 (Wire ID = 996904 )	Color	Default
	Name	DVDD_5V0

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
DGND : P19/DGND (Wire ID = 996926 )	Color	Default
	Name	DGND

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
ENC_A : P19/ENC_A (Wire ID = 997042 )	Color	Default
	Name	ENC_A

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N997070 : P19/N997070 (Wire ID = 997070 )	Color	Default
	Name	N997070

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N997070 : P19/N997070 (Wire ID = 997074 )	Color	Default
	Name	N997070

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N997070 : P19/N997070 (Wire ID = 997078 )	Color	Default
	Name	N997070

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
ROT_ENC_A : P19/ROT_ENC_A (Wire ID = 997082 )	Color	Default
	Name	ROT_ENC_A

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
ROT_ENC_A : P19/ROT_ENC_A (Wire ID = 997086 )	Color	Default
	Name	ROT_ENC_A

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
ROT_ENC_A : P19/ROT_ENC_A (Wire ID = 997090 )	Color	Default
	Name	ROT_ENC_A

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N997070 : P19/N997070 (Wire ID = 997094 )	Color	Default
	Name	N997070

<b>Object</b>	<b>Property Name</b>	<b>Property Value</b>
N997070 : P19/N997070 (Wire ID = 997098 )	Color	Default
	Name	N997070

Object	Property Name	Property Value
ENC_B : P19/ENC_B (Wire ID = 997152 )	Color	Default
	Name	ENC_B

Object	Property Name	Property Value
DGND : P19/DGND (Wire ID = 997232 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P19/DGND (Wire ID = 997236 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N997070 : P19/N997070 (Wire ID = 997272 )	Color	Default
	Name	N997070

Object	Property Name	Property Value
DVDD_5V0 : P19/DVDD_5V0 (Wire ID = 997284 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DVDD_5V0 : P19/DVDD_5V0 (Wire ID = 997288 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DVDD_5V0 : P19/DVDD_5V0 (Wire ID = 997292 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DVDD_5V0 : P19/DVDD_5V0 (Wire ID = 997296 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DGND : P19/DGND (Wire ID = 997318 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N997420 : P19/N997420 (Wire ID = 997420 )	Color	Default
	Name	N997420

Object	Property Name	Property Value
N997420 : P19/N997420 (Wire ID = 997424 )	Color	Default
	Name	N997420

Object	Property Name	Property Value
N997420 : P19/N997420 (Wire ID = 997428 )	Color	Default
	Name	N997420

Object	Property Name	Property Value
ROT_ENC_B : P19/ROT_ENC_B (Wire ID = 997432 )	Color	Default
	Name	ROT_ENC_B

Object	Property Name	Property Value
ROT_ENC_B : P19/ROT_ENC_B (Wire ID = 997436 )	Color	Default
	Name	ROT_ENC_B

Object	Property Name	Property Value
ROT_ENC_B : P19/ROT_ENC_B (Wire ID = 997440 )	Color	Default
	Name	ROT_ENC_B

Object	Property Name	Property Value
N997420 : P19/N997420 (Wire ID = 997444 )	Color	Default
	Name	N997420

Object	Property Name	Property Value
N997420 : P19/N997420 (Wire ID = 997448 )	Color	Default
	Name	N997420

Object	Property Name	Property Value
DGND : P19/DGND (Wire ID = 997470 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P19/DGND (Wire ID = 997474 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N997420 : P19/N997420 (Wire ID = 997490 )	Color	Default
	Name	N997420

Object	Property Name	Property Value
DGND : P19/DGND (Wire ID = 998559 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P19/DGND (Wire ID = 998561 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DVDD_3V3 : P19/DVDD_3V3 (Wire ID = 998645 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
ROT_ENC_SW : P19/ROT_ENC_SW (Wire ID = 998645 )	Color	Default
	Name	ROT_ENC_SW

Object	Property Name	Property Value
ROT_ENC_SW : P19/ROT_ENC_SW (Wire ID = 99865)	Color	Default
	Name	ROT_ENC_SW

Object	Property Name	Property Value
DGND : P19/DGND (Wire ID = 998902 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P19/DGND (Wire ID = 998906 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N999245 : P19/N999245 (Wire ID = 999245 )	Color	Default
	Name	N999245

Object	Property Name	Property Value
ROT_ENC_SW : P19/ROT_ENC_SW (Wire ID = 999245)	Color	Default
	Name	ROT_ENC_SW

Object	Property Name	Property Value
ROT_ENC_SW : P19/ROT_ENC_SW (Wire ID = 99925)	Color	Default
	Name	ROT_ENC_SW

Object	Property Name	Property Value
DGND : P19/DGND (Wire ID = 999800 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P19/DGND (Wire ID = 999881 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N999996 : P19/N999996 (Wire ID = 999996 )	Color	Default
	Name	N999996

Object	Property Name	Property Value
N1000001 : P19/N1000001 (Wire ID = 1000001 )	Color	Default
	Name	N1000001

Object	Property Name	Property Value
N1000001 : P19/N1000001 (Wire ID = 1000003 )	Color	Default
	Name	N1000001

Object	Property Name	Property Value
N999996 : P19/N999996 (Wire ID = 1000120 )	Color	Default
	Name	N999996

Object	Property Name	Property Value
N1000001 : P19/N1000001 (Wire ID = 1000128 )	Color	Default
	Name	N1000001

Object	Property Name	Property Value
ENC_B : P19/ENC_B (Wire ID = 1000156 )	Color	Default
	Name	ENC_B

Object	Property Name	Property Value
ENC_A : P19/ENC_A (Wire ID = 1000160 )	Color	Default
	Name	ENC_A

Object	Property Name	Property Value
ENC_A : P19/ENC_A (Wire ID = 1000259 )	Color	Default
	Name	ENC_A

Object	Property Name	Property Value
ENC_A : P19/ENC_A (Wire ID = 1000263 )	Color	Default
	Name	ENC_A

Object	Property Name	Property Value
ENC_B : P19/ENC_B (Wire ID = 1000269 )	Color	Default
	Name	ENC_B

Object	Property Name	Property Value
ENC_B : P19/ENC_B (Wire ID = 1000273 )	Color	Default
	Name	ENC_B

Object	Property Name	Property Value
DVDD_5V0 : P19/DVDD_5V0 (Wire ID = 1000658 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
DVDD_5V0 : P19/DVDD_5V0 (Wire ID = 1000696 )	Color	Default
	Name	DVDD_5V0

Object	Property Name	Property Value
LED_1 : P19/LED_1 (Wire ID = 1002106 )	Color	Default
	Name	LED_1

Object	Property Name	Property Value
LED_2 : P19/LED_2 (Wire ID = 1002110 )	Color	Default
	Name	LED_2

Object	Property Name	Property Value
LED_3 : P19/LED_3 (Wire ID = 1002114 )	Color	Default
	Name	LED_3

Object	Property Name	Property Value
LED_4 : P19/LED_4 (Wire ID = 1002118 )	Color	Default
	Name	LED_4

Object	Property Name	Property Value
N1002357 : P19/N1002357 (Wire ID = 1002357 )	Color	Default
	Name	N1002357

Object	Property Name	Property Value
N1002361 : P19/N1002361 (Wire ID = 1002361 )	Color	Default
	Name	N1002361

Object	Property Name	Property Value
N1002365 : P19/N1002365 (Wire ID = 1002365 )	Color	Default
	Name	N1002365

Object	Property Name	Property Value
N1002369 : P19/N1002369 (Wire ID = 1002369 )	Color	Default
	Name	N1002369

Object	Property Name	Property Value
DGND : P19/DGND (Wire ID = 1002432 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P19/DGND (Wire ID = 1002434 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P19/DGND (Wire ID = 1002454 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P19/DGND (Wire ID = 1002456 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P19/DGND (Wire ID = 1002480 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P19/DGND (Wire ID = 1002482 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P19/DGND (Wire ID = 1002508 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P19/DGND (Wire ID = 1002510 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
AVDD_3V3 : P19/AVDD_3V3 (Wire ID = 1002832 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P19/AVDD_3V3 (Wire ID = 1002836 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
DGND : P19/DGND (Wire ID = 1002858 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
AVDD_3V3 : P19/AVDD_3V3 (Wire ID = 1002900 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AVDD_3V3 : P19/AVDD_3V3 (Wire ID = 1002904 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
AIN_AN2_POT : P19/AIN_AN2_POT (Wire ID = 1002914 )	Color	Default
	Name	AIN_AN2_POT

Object	Property Name	Property Value
AIN_AN2_POT : P19/AIN_AN2_POT (Wire ID = 1002918 )	Color	Default
	Name	AIN_AN2_POT

Object	Property Name	Property Value
AIN_AN2_POT : P19/AIN_AN2_POT (Wire ID = 1002922 )	Color	Default
	Name	AIN_AN2_POT

Object	Property Name	Property Value
AIN_AN2_POT : P19/AIN_AN2_POT (Wire ID = 1002926 )	Color	Default
	Name	AIN_AN2_POT

Object	Property Name	Property Value
DGND : P19/DGND (Wire ID = 1002950 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
AIN_AN2_POT : P19/AIN_AN2_POT (Wire ID = 1003318 )	Color	Default
	Name	AIN_AN2_POT

Object	Property Name	Property Value
N1003420 : P19/N1003420 (Wire ID = 1003420 )	Color	Default
	Name	N1003420

Object	Property Name	Property Value
AVDD_3V3 : P19/AVDD_3V3 (Wire ID = 1003445 )	Color	Default
	Name	AVDD_3V3

Object	Property Name	Property Value
DGND : P19/DGND (Wire ID = 1003499 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N1003420 : P19/N1003420 (Wire ID = 1003729 )	Color	Default
	Name	N1003420

Object	Property Name	Property Value
N1003420 : P19/N1003420 (Wire ID = 1003733 )	Color	Default
	Name	N1003420

Object	Property Name	Property Value
RGB_R : P19/RGB_R (Wire ID = 1004224 )	Color	Default
	Name	RGB_R

Object	Property Name	Property Value
N1004229 : P19/N1004229 (Wire ID = 1004229 )	Color	Default
	Name	N1004229

Object	Property Name	Property Value
DVDD_3V3 : P19/DVDD_3V3 (Wire ID = 1004268 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P19/DVDD_3V3 (Wire ID = 1004282 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
RGB_G : P19/RGB_G (Wire ID = 1004352 )	Color	Default
	Name	RGB_G

Object	Property Name	Property Value
N1004356 : P19/N1004356 (Wire ID = 1004356 )	Color	Default
	Name	N1004356

Object	Property Name	Property Value
N1004427 : P19/N1004427 (Wire ID = 1004427 )	Color	Default
	Name	N1004427

Object	Property Name	Property Value
RGB_B : P19/RGB_B (Wire ID = 1004431 )	Color	Default
	Name	RGB_B

Object	Property Name	Property Value
DGND : P19/DGND (Wire ID = 1005445 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P19/DGND (Wire ID = 1005541 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P19/DGND (Wire ID = 1005583 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P19/DGND (Wire ID = 1005585 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P19/DGND (Wire ID = 1005623 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P19/DGND (Wire ID = 1005625 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P19/DGND (Wire ID = 1005667 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P19/DGND (Wire ID = 1005669 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
BTN_1 : P19/BTN_1 (Wire ID = 1006458 )	Color	Default
	Name	BTN_1

Object	Property Name	Property Value
BTN_3 : P19/BTN_3 (Wire ID = 1006661 )	Color	Default
	Name	BTN_3

Object	Property Name	Property Value
BTN_4 : P19/BTN_4 (Wire ID = 1006672 )	Color	Default
	Name	BTN_4

Object	Property Name	Property Value
BTN_1 : P19/BTN_1 (Wire ID = 1007395 )	Color	Default
	Name	BTN_1

Object	Property Name	Property Value
BTN_1 : P19/BTN_1 (Wire ID = 1007405 )	Color	Default
	Name	BTN_1

Object	Property Name	Property Value
BTN_1 : P19/BTN_1 (Wire ID = 1007413 )	Color	Default
	Name	BTN_1

Object	Property Name	Property Value
BTN_2 : P19/BTN_2 (Wire ID = 1007445 )	Color	Default
	Name	BTN_2

Object	Property Name	Property Value
BTN_2 : P19/BTN_2 (Wire ID = 1007453 )	Color	Default
	Name	BTN_2

Object	Property Name	Property Value
BTN_3 : P19/BTN_3 (Wire ID = 1007461 )	Color	Default
	Name	BTN_3

Object	Property Name	Property Value
BTN_3 : P19/BTN_3 (Wire ID = 1007465 )	Color	Default
	Name	BTN_3

Object	Property Name	Property Value
BTN_4 : P19/BTN_4 (Wire ID = 1007471 )	Color	Default
	Name	BTN_4

Object	Property Name	Property Value
BTN_4 : P19/BTN_4 (Wire ID = 1007475 )	Color	Default
	Name	BTN_4

Object	Property Name	Property Value
BTN_4 : P19/BTN_4 (Wire ID = 1007481 )	Color	Default
	Name	BTN_4

Object	Property Name	Property Value
BTN_3 : P19/BTN_3 (Wire ID = 1007490 )	Color	Default
	Name	BTN_3

Object	Property Name	Property Value
BTN_2 : P19/BTN_2 (Wire ID = 1007499 )	Color	Default
	Name	BTN_2

Object	Property Name	Property Value
DVDD_3V3 : P19/DVDD_3V3 (Wire ID = 1007604 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P19/DVDD_3V3 (Wire ID = 1007618 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P19/DVDD_3V3 (Wire ID = 1007633 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P19/DVDD_3V3 (Wire ID = 1007649 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
BUZZ : P19/BUZZ (Wire ID = 1009457 )	Color	Default
	Name	BUZZ

Object	Property Name	Property Value
N1009461 : P19/N1009461 (Wire ID = 1009461 )	Color	Default
	Name	N1009461

Object	Property Name	Property Value
DGND : P19/DGND (Wire ID = 1009526 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N1009950 : P19/N1009950 (Wire ID = 1009950 )	Color	Default
	Name	N1009950

Object	Property Name	Property Value
N1009950 : P19/N1009950 (Wire ID = 1009952 )	Color	Default
	Name	N1009950

Object	Property Name	Property Value
DVDD_3V3 : P19/DVDD_3V3 (Wire ID = 1009957 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P19/DVDD_3V3 (Wire ID = 1009961 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P19/DVDD_3V3 (Wire ID = 1010105 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DVDD_3V3 : P19/DVDD_3V3 (Wire ID = 1010162 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
N1009950 : P19/N1009950 (Wire ID = 1010178 )	Color	Default
	Name	N1009950

Object	Property Name	Property Value
N1009950 : P19/N1009950 (Wire ID = 1010180 )	Color	Default
	Name	N1009950

Object	Property Name	Property Value
N1009950 : P19/N1009950 (Wire ID = 1011301 )	Color	Default
	Name	N1009950

Object	Property Name	Property Value
DVDD_3V3 : P19/DVDD_3V3 (Wire ID = 1013185 )	Color	Default
	Name	DVDD_3V3

Object	Property Name	Property Value
DGND : P19/DGND (Wire ID = 1020003 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
N1003420 : P19/N1003420 (Wire ID = 1020017 )	Color	Default
	Name	N1003420

Object	Property Name	Property Value
N1003420 : P19/N1003420 (Wire ID = 1020019 )	Color	Default
	Name	N1003420

Object	Property Name	Property Value
BTN_2 : P19/BTN_2 (Wire ID = 1066250 )	Color	Default
	Name	BTN_2

Object	Property Name	Property Value
BTN_2 : P19/BTN_2 (Wire ID = 1066260 )	Color	Default
	Name	BTN_2

Object	Property Name	Property Value
BTN_1 : P19/BTN_1 (Wire ID = 1066271 )	Color	Default
	Name	BTN_1

Object	Property Name	Property Value
BTN_1 : P19/BTN_1 (Wire ID = 1066273 )	Color	Default
	Name	BTN_1

Object	Property Name	Property Value
BTN_4 : P19/BTN_4 (Wire ID = 1066354 )	Color	Default
	Name	BTN_4

Object	Property Name	Property Value
BTN_4 : P19/BTN_4 (Wire ID = 1066366 )	Color	Default
	Name	BTN_4

Object	Property Name	Property Value
BTN_3 : P19/BTN_3 (Wire ID = 1066379 )	Color	Default
	Name	BTN_3

Object	Property Name	Property Value
BTN_3 : P19/BTN_3 (Wire ID = 1066381 )	Color	Default
	Name	BTN_3

Object	Property Name	Property Value
DGND : P19/DGND (Wire ID = 1066405 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P19/DGND (Wire ID = 1066472 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P19/DGND (Wire ID = 1067768 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
DGND : P19/DGND (Wire ID = 1069859 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
ROT_ENC_SW : P19/ROT_ENC_SW (Wire ID = 1070769 )	Color	Default
	Name	ROT_ENC_SW

Object	Property Name	Property Value
N999996 : P19/N999996 (Wire ID = 1073438 )	Color	Default
	Name	N999996

Object	Property Name	Property Value
N999996 : P19/N999996 (Wire ID = 1073537 )	Color	Default
	Name	N999996

Object	Property Name	Property Value
N999996 : P19/N999996 (Wire ID = 1073539 )	Color	Default
	Name	N999996

Object	Property Name	Property Value
N1000001 : P19/N1000001 (Wire ID = 1073564 )	Color	Default
	Name	N1000001

Object	Property Name	Property Value
N1000001 : P19/N1000001 (Wire ID = 1073566 )	Color	Default
	Name	N1000001

Object	Property Name	Property Value
N1000001 : P19/N1000001 (Wire ID = 1073570 )	Color	Default
	Name	N1000001

Object	Property Name	Property Value
N999996 : P19/N999996 (Wire ID = 1073775 )	Color	Default
	Name	N999996

Object	Property Name	Property Value
DGND : P19/DGND (Wire ID = 1074085 )	Color	Default
	Name	DGND

Object	Property Name	Property Value
ROT_ENC_SW : P19/ROT_ENC_SW (Wire ID = 108446290 )	Color	Default
	Name	ROT_ENC_SW

Object	Property Name	Property Value
ROT_ENC_SW : P19/ROT_ENC_SW (Wire ID = 108446290 )	Color	Default
	Name	ROT_ENC_SW

Object	Property Name	Property Value
BUZZ : P19/BUZZ (Wire ID = 1084571 )	Color	Default
	Name	BUZZ

Object	Property Name	Property Value
BUZZ : P19/BUZZ (Wire ID = 1084575 )	Color	Default
	Name	BUZZ

Object	Property Name	Property Value
BTN_2 : P19/BTN_2 (Wire ID = 1088676 )	Color	Default
	Name	BTN_2

Object	Property Name	Property Value
DVDD_5V0	Name	DVDD_5V0
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DVDD_5V0	Name	DVDD_5V0
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DVDD_5V0	Name	DVDD_5V0
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DVDD_5V0	Name	DVDD_5V0
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
AVDD_3V3	Name	AVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
AVDD_3V3	Name	AVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DVDD_3V3	Name	DVDD_3V3
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	VCC_BAR
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
DGND	Name	DGND
	Source Library	C:\CADENCE\SPB_17.2\TOOLS\CAPTURE\LIBRARY\CAPSYM.OLB
	Source Symbol	GND
	Color	Default

Object	Property Name	Property Value
ROT_ENC_A : P19/ROT_ENC_A	Name	ROT_ENC_A
	Number	
	Swap Id	-1
	Type	Output
	Net Name	ROT_ENC_A
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
ROT_ENC_B : P19/ROT_ENC_B	Name	ROT_ENC_B
	Number	
	Swap Id	-1
	Type	Output
	Net Name	ROT_ENC_B
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
ROT_ENC_SW : P19/ROT_ENC_SW	Name	ROT_ENC_SW
	Number	
	Swap Id	-1
	Type	Output
	Net Name	ROT_ENC_SW
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
LED_1 : P19/LED_1	Name	LED_1
	Number	
	Swap Id	-1
	Type	Input
	Net Name	LED_1
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
LED_2 : P19/LED_2	Name	LED_2
	Number	
	Swap Id	-1
	Type	Input
	Net Name	LED_2
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
LED_3 : P19/LED_3	Name	LED_3
	Number	
	Swap Id	-1
	Type	Input
	Net Name	LED_3
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
LED_4 : P19/LED_4	Name	LED_4
	Number	
	Swap Id	-1
	Type	Input
	Net Name	LED_4
	Order	10
	Is No Connect	False

Object	Property Name	Property Value
AIN_AN2_POT : P19/AIN_AN2_POT	Name	AIN_AN2_POT
	Number	
	Swap Id	-1
	Type	Output
	Net Name	AIN_AN2_POT
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
RGB_R : P19/RGB_R	Name	RGB_R
	Number	
	Swap Id	-1
	Type	Input
	Net Name	SWPWM_RGB_R
	Order	7
	Is No Connect	False

Object	Property Name	Property Value
RGB_G : P19/RGB_G	Name	RGB_G
	Number	
	Swap Id	-1
	Type	Input
	Net Name	SWPWM_RGB_G
	Order	9
	Is No Connect	False

Object	Property Name	Property Value
RGB_B : P19/RGB_B	Name	RGB_B
	Number	
	Swap Id	-1
	Type	Input
	Net Name	SWPWM_RGB_B
	Order	8
	Is No Connect	False

Object	Property Name	Property Value
BTN_1 : P19/BTN_1	Name	BTN_1
	Number	
	Swap Id	-1
	Type	Output
	Net Name	BTN_1
	Order	14
	Is No Connect	False

Object	Property Name	Property Value
BTN_2 : P19/BTN_2	Name	BTN_2
	Number	
	Swap Id	-1
	Type	Output
	Net Name	BTN_2
	Order	12
	Is No Connect	False

Object	Property Name	Property Value
BTN_3 : P19/BTN_3	Name	BTN_3
	Number	
	Swap Id	-1
	Type	Output
	Net Name	BTN_3
	Order	13
	Is No Connect	False

Object	Property Name	Property Value
BTN_4 : P19/BTN_4	Name	BTN_4
	Number	
	Swap Id	-1
	Type	Output
	Net Name	BTN_4
	Order	11
	Is No Connect	False

Object	Property Name	Property Value
BUZZ : P19/BUZZ	Name	BUZZ
	Number	
	Swap Id	-1
	Type	Input
	Net Name	BUZZER
	Order	15
	Is No Connect	False

Object	Property Name	Property Value
TitleBlockIntellitrol : P19/TitleBlockIntellitrol	Schematic Page Count	1
	Schematic Page Number	1
	Page Number	21
	Page Count	21
	Path Name	P19/TitleBlockIntellitrol
	Schematic Path	/P19
	ID	8920
	Doc	
	RevCode	0B
	Cage Code	
	Title	User input / output
	OrgName	Jean-Francois Bilodeau, B.E.Eng
	OrgAddr1	CPI/CEP #6022173
	OrgAddr2	925 Chemin ste-foy apt4, QC, CANADA
	OrgAddr3	
	OrgAddr4	
	Name	TitleBlockIntellitrol
	Design Name	DSPEAK-V1_00-0B
	Design File Name	C:\USERS\JEANF\Desktop\GIT\DSPEAK\HARDWA
	Design Create Date	Friday, November 13, 2020
	Design Modify Date	Thursday, March 25, 2021
	Design Create Time	18:59:24
	Design Modify Time	19:51:15
	Schematic Name	USER I/O
	Schematic Create Date	Wednesday, November 25, 2020
	Schematic Modify Date	Thursday, March 25, 2021
	Schematic Create Time	18:42:30
	Schematic Modify Time	19:48:26
	Page Size	B
	Page Create Date	Wednesday, November 25, 2020
	Page Modify Date	Thursday, March 25, 2021
	Page Create Time	18:42:29
	Page Modify Time	19:48:24
	Color	Default
	Source Library	C:\USERS\JEANF\GOOGLE DRIVE\ORCAD16LIB\PIECE\PART.OLB
	Source Symbol	TitleBlockIntellitrol
	Page Name	USER I/O

Object	Property Name	Property Value
INS1006560 : P19/R138	Name	INS1006560
	ID	6831
	Reference	R138
	Designator	
	Part Reference	R138
	Value	10k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-0710KL
	Description	RES SMD 10K OHM 1% 1/10W 0603
	Digi-Key PN	311-10.0KHRCT-ND
	digikey_id	{distributorPn:311-10.0KHRCT-ND,mfr:Yageo,mpn:RC0603FR-0710KL,ul:{uid}}

Object	Property Name	Property Value
1 : P19/R138/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	BTN_3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P19/R138/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1004401 : P19/R132	Name	INS1004401
	ID	6764
	Reference	R132
	Designator	
	Part Reference	R132
	Value	39R2
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-0739R2L
	Description	RES SMD 39.2 OHM 1% 1/10W 0603
	Digi-Key PN	311-39.2HRCT-ND
	digikey_id	{distributorPn:311-39.2HRCT-ND,mfr:Yageo,mpn:RC0603FR-0739R2L,ul:{uid}}

Object	Property Name	Property Value
1 : P19/R132/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	RGB_B
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P19/R132/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N1004427
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1005354 : P19/SW3	Name	INS1005354
	ID	6803
	Reference	SW3
	Designator	
	Part Reference	SW3
	Value	btmsmt
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:CKN10283CT-ND,mfr:C&K,mpn:KSR233G LFG}
	Digi-Key PN	CKN10283CT-ND
	Description	SWITCH TACTILE SPST-NO 0.01A 32V
	Manufacturer PN	KSR233G LFG
	Manufacturer	C&K
	PCB Footprint	KSR233G
	Filename	

Object	Property Name	Property Value
1 : P19/SW3/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	BTN_2
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P19/SW3/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1002022 : P19/R144	Name	INS1002022
	ID	6642
	Reference	R144
	Designator	
	Part Reference	R144
	Value	120R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:311-4.70KHRDKR-ND,mfr:Yageo,mpn:RC0603FR-074K7L,ul:u}
	Digi-Key PN	311-4.70KHRDKR-ND
	Description	RES SMD 4.7K OHM 1% 1/10W 0603
	Manufacturer PN	RC0603FR-074K7L
	Manufacturer	Yageo
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P19/R144/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	LED_2
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P19/R144/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N1002365
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1002838 : P19/C135	Name	INS1002838
	ID	6726
	Reference	C135
	Designator	
	Part Reference	C135
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P19/C135/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P19/C135/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1004110 : P19/D44	Name	INS1004110
	ID	6748
	Reference	D44
	Designator	
	Part Reference	D44
	Value	RGB LED 4PLCC
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:CLV1A-FKB-CK1VW1DE1BB7C3C3CT-ND,mfr:Cree Inc.,mpn:CLV1A-FKB-CK1VW1DE1BB7C3C3CT-ND}
	Digi-Key PN	CLV1A-FKB-CK1VW1DE1BB7C3C3CT-ND
	Description	LED RGB 4PLCC SMD
	Manufacturer PN	CLV1A-FKB-CK1VW1DE1BB7C3C3
	Manufacturer	Cree Inc.
	PCB Footprint	RGB-LED-4PLCC
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
R : P19/D44/R	Name	R
	Number	1
	Swap Id	-1
	Type	Bidirectional
	Net Name	N1004229
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
G : P19/D44/G	Name	G
	Number	2
	Swap Id	-1
	Type	Bidirectional
	Net Name	N1004356
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
B : P19/D44/B	Name	B
	Number	3
	Swap Id	-1
	Type	Bidirectional
	Net Name	N1004427
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
CA : P19/D44/CA	Name	CA
	Number	4
	Swap Id	-1
	Type	Power
	Net Name	DVDD_3V3
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
INS996906 : P19/C138	Name	INS996906
	ID	6531
	Reference	C138
	Designator	
	Part Reference	C138
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B1
	Digi-Key PN	1276-1000-1-ND
	Description	CAP CER 0.1UF 50V X7R 0603
	Manufacturer PN	CL10B104KB8NNNC
	Manufacturer	Samsung Electro-Mechanics
	PCB Footprint	0603_cap_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P19/C138/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_5V0
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P19/C138/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS997450 : P19/R150	Name	INS997450
	ID	6513
	Reference	R150
	Designator	
	Part Reference	R150
	Value	33k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-0733KL
	Description	RES SMD 33K OHM 1% 1/10W 0603
	Digi-Key PN	311-33.0KHRCT-ND
	digikey_id	{distributorPn:311-33.0KHRCT-ND,mfr:Yageo,mpn:RC0603FR-0733KL,ul:{uid}}
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P19/R150/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P19/R150/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	ROT_ENC_B
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1084440 : P19/TP72	Name	INS1084440
	ID	8709
	Reference	TP72
	Designator	
	Part Reference	TP72
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P19/TP72/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	ROT_ENC_SW
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS997298 : P19/C139	Name	INS997298
	ID	6543
	Reference	C139
	Designator	
	Part Reference	C139
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Manufacturer	Samsung Electro-Mechanics
	Manufacturer PN	CL10B104KB8NNNC
	Description	CAP CER 0.1UF 50V X7R 0603
	Digi-Key PN	1276-1000-1-ND
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B104KB8NNNC}
	PCB Footprint	0603_cap_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P19/C139/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_5V0
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P19/C139/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1002279 : P19/D50	Name	INS1002279
	ID	6667
	Reference	D50
	Designator	
	Part Reference	D50
	Value	LED
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	dio_0603
	Manufacturer	Würth Elektronik
	Manufacturer PN	150060GS75000
	Description	LED GREEN CLEAR 0603 SMD
	Digi-Key PN	732-4971-1-ND
	digikey_id	{distributorPn:732-4971-1-ND,mfr:Würth Elektronik,mpn:150060GS75000}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
ANODE : P19/D50/ANODE	Name	ANODE
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N1002365
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
CATHODE : P19/D50/CATHODE	Name	CATHODE
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS999780 : P19/C137	Name	INS999780
	ID	6598
	Reference	C137
	Designator	
	Part Reference	C137
	Value	10nF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	AVX Corporation
	Manufacturer PN	06035C103KAT2A
	Description	CAP CER 10000PF 50V X7R 0603
	Digi-Key PN	478-1227-1-ND
	digikey_id	{distributorPn:478-1227-1-ND,mfr:AVX Corporation,mpn:06035C103KAT2A,uln:06035C103KAT2A}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P19/C137/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	ENC_A
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P19/C137/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1006530 : P19/R137	Name	INS1006530
	ID	6828
	Reference	R137
	Designator	
	Part Reference	R137
	Value	10k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-0710KL
	Description	RES SMD 10K OHM 1% 1/10W 0603
	Digi-Key PN	311-10.0KHRCT-ND
	digikey_id	{distributorPn:311-10.0KHRCT-ND,mfr:Yageo,mpn:RC0603FR-0710KL,ul:{uid}}

Object	Property Name	Property Value
1 : P19/R137/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	BTN_4
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P19/R137/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS997044 : P19/R147	Name	INS997044
	ID	6537
	Reference	R147
	Designator	
	Part Reference	R147
	Value	10k7
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:RMCF0603FT10K7CT-ND,mfr:Stackpole Electronics Inc,mpn:RMCF0603FT10K7CT-ND}
	Digi-Key PN	RMCF0603FT10K7CT-ND
	Description	RES 10.7K OHM 1% 1/10W 0603
	Manufacturer PN	RMCF0603FT10K7
	Manufacturer	Stackpole Electronics Inc
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P19/R147/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	ROT_ENC_A
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P19/R147/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N997070
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS999679 : P19/R136	Name	INS999679
	ID	6589
	Reference	R136
	Designator	
	Part Reference	R136
	Value	10k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-0710KL
	Description	RES SMD 10K OHM 1% 1/10W 0603
	Digi-Key PN	311-10.0KHRCT-ND
	digikey_id	{distributorPn:311-10.0KHRCT-ND,mfr:Yageo,mpn:RC0603FR-0710KL,ul:{uid}}

Object	Property Name	Property Value
1 : P19/R136/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	ENC_A
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P19/R136/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N999996
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1005324 : P19/SW2	Name	INS1005324
	ID	6800
	Reference	SW2
	Designator	
	Part Reference	SW2
	Value	btmsmt
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:CKN10283CT-ND,mfr:C&K,mpn:KSR233G LFG}
	Digi-Key PN	CKN10283CT-ND
	Description	SWITCH TACTILE SPST-NO 0.01A 32V
	Manufacturer PN	KSR233G LFG
	Manufacturer	C&K
	PCB Footprint	KSR233G
	Filename	

Object	Property Name	Property Value
1 : P19/SW2/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	BTN_1
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P19/SW2/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1084408 : P19/TP75	Name	INS1084408
	ID	8707
	Reference	TP75
	Designator	
	Part Reference	TP75
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P19/TP75/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	ROT_ENC_B
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1001992 : P19/R143	Name	INS1001992
	ID	6639
	Reference	R143
	Designator	
	Part Reference	R143
	Value	120R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:311-4.70KHRDKR-ND,mfr:Yageo,mpn:RC0603FR-074K7L,u:u}
	Digi-Key PN	311-4.70KHRDKR-ND
	Description	RES SMD 4.7K OHM 1% 1/10W 0603
	Manufacturer PN	RC0603FR-074K7L
	Manufacturer	Yageo
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P19/R143/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	LED_1
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P19/R143/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N1002369
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1009890 : P19/SP1	Name	INS1009890
	ID	6978
	Reference	SP1
	Designator	
	Part Reference	SP1
	Value	Buzzer
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:102-1458-ND,mfr:CUI Devices,mpn:CST-931AP}
	Digi-Key PN	102-1458-ND
	Description	AUDIO MAGNETIC XDCR 2-4V TH
	Manufacturer PN	CST-931AP
	Manufacturer	CUI Devices
	PCB Footprint	CST-931AP
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
+ : P19/SP1/+	Name	+
	Number	1
	Swap Id	-1
	Type	Power
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
- : P19/SP1/-	Name	-
	Number	2
	Swap Id	-1
	Type	Power
	Net Name	N1009950
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS998627 : P19/R142	Name	INS998627
	ID	6572
	Reference	R142
	Designator	
	Part Reference	R142
	Value	10k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-0710KL
	Description	RES SMD 10K OHM 1% 1/10W 0603
	Digi-Key PN	311-10.0KHRCT-ND
	digikey_id	{distributorPn:311-10.0KHRCT-ND,mfr:Yageo,mpn:RC0603FR-0710KL,ul:{uid}}

Object	Property Name	Property Value
1 : P19/R142/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P19/R142/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	ROT_ENC_SW
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1009439 : P19/R129	Name	INS1009439
	ID	6974
	Reference	R129
	Designator	
	Part Reference	R129
	Value	180R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:311-180HRCT-ND,mfr:Yageo,mpn:RC0603FR-07180RL,ul:{uid:311-180HRCT-ND}}
	Digi-Key PN	311-180HRCT-ND
	Description	RES SMD 180 OHM 1% 1/10W 0603
	Manufacturer PN	RC0603FR-07180RL
	Manufacturer	Yageo
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P19/R129/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N1009461
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P19/R129/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	BUZZ
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1003402 : P19/R128	Name	INS1003402
	ID	6733
	Reference	R128
	Designator	
	Part Reference	R128
	Value	3386F-1-104TLF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Manufacturer	Bourns Inc.
	Manufacturer PN	3386F-1-104TLF
	Description	TRIMMER 100K OHM 0.5W PC PIN TOP
	Digi-Key PN	3386F-1-104TLF-ND
	digikey_id	(distributorPn:3386F-1-104TLF-ND,mfr:Bourns Inc.,mpn:3386F-1-104TLF,ul:(u
	PCB Footprint	3386F
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
A : P19/R128/A	Name	A
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	AVDD_3V3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
B : P19/R128/B	Name	B
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
WIPER : P19/R128/WIPER	Name	WIPER
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N1003420
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
INS997326 : P19/U36	Name	INS997326
	ID	6546
	Reference	U36
	Designator	
	Part Reference	U36
	Value	MCP6L91
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Manufacturer	Microchip Technology
	Manufacturer PN	MCP6L91T-E/OT
	Description	IC OPAMP GP 1 CIRCUIT SOT23-5
	Digi-Key PN	MCP6L91T-E/OTCT-ND
	digikey_id	(distributorPn:MCP6L91T-E/OTCT-ND,mfr:Microchip Technology,mpn:MCP6L91T-E/OT)
	PCB Footprint	sot23-5
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
OUT : P19/U36/OUT	Name	OUT
	Number	1
	Swap Id	-1
	Type	Power
	Net Name	N997420
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
V- : P19/U36/V-	Name	V-
	Number	2
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
IN+ : P19/U36/IN+	Name	IN+
	Number	3
	Swap Id	-1
	Type	Input
	Net Name	ENC_B
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
IN- : P19/U36/IN-	Name	IN-
	Number	4
	Swap Id	-1
	Type	Input
	Net Name	N997420
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
V+ : P19/U36/V+	Name	V+
	Number	5
	Swap Id	-1
	Type	Power
	Net Name	DVDD_5V0
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
INS1084376 : P19/TP74	Name	INS1084376
	ID	8705
	Reference	TP74
	Designator	
	Part Reference	TP74
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P19/TP74/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	ROT_ENC_A
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1004204 : P19/R130	Name	INS1004204
	ID	6754
	Reference	R130
	Designator	
	Part Reference	R130
	Value	143R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P143HCT-ND,mfr:Panasonic Electronic Components,mpn:ERJ-3EK
	Digi-Key PN	P143HCT-ND
	Description	RES SMD 143 OHM 1% 1/10W 0603
	Manufacturer PN	ERJ-3EKF1430V
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P19/R130/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	RGB_R
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P19/R130/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N1004229
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1002131 : P19/D49	Name	INS1002131
	ID	6651
	Reference	D49
	Designator	
	Part Reference	D49
	Value	LED
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	dio_0603
	Manufacturer	Würth Elektronik
	Manufacturer PN	150060GS75000
	Description	LED GREEN CLEAR 0603 SMD
	Digi-Key PN	732-4971-1-ND
	digikey_id	{distributorPn:732-4971-1-ND,mfr:Würth Elektronik,mpn:150060GS75000}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
ANODE : P19/D49/ANODE	Name	ANODE
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N1002369
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
CATHODE : P19/D49/CATHODE	Name	CATHODE
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS999649 : P19/R134	Name	INS999649
	ID	6586
	Reference	R134
	Designator	
	Part Reference	R134
	Value	10k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-0710KL
	Description	RES SMD 10K OHM 1% 1/10W 0603
	Digi-Key PN	311-10.0KHRCT-ND
	digikey_id	{distributorPn:311-10.0KHRCT-ND,mfr:Yageo,mpn:RC0603FR-0710KL,ul:{uid}}

Object	Property Name	Property Value
1 : P19/R134/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N1000001
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P19/R134/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	ENC_B
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS997100 : P19/R149	Name	INS997100
	ID	6525
	Reference	R149
	Designator	
	Part Reference	R149
	Value	33k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:311-33.0KHRCT-ND,mfr:Yageo,mpn:RC0603FR-0733KL,ul:{uid}}
	Digi-Key PN	311-33.0KHRCT-ND
	Description	RES SMD 33K OHM 1% 1/10W 0603
	Manufacturer PN	RC0603FR-0733KL
	Manufacturer	Yageo
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P19/R149/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P19/R149/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	ROT_ENC_A
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1072345 : P19/D45	Name	INS1072345
	ID	8078
	Reference	D45
	Designator	
	Part Reference	D45
	Value	TVS 5V0 DL
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Manufacturer	ON Semiconductor
	Manufacturer PN	SM05T1G
	Description	TVS DIODE 5V 9.8V SOT23-3
	Digi-Key PN	SM05T1GOSCT-ND
	digikey_id	{distributorPn:SM05T1GOSCT-ND,mfr:ON Semiconductor,mpn:SM05T1G}
	PCB Footprint	sot23-3
	Distributor	
	Distributor PN	

Object	Property Name	Property Value
CA : P19/D45/CA	Name	CA
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
CAT1 : P19/D45/CAT1	Name	CAT1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N999996
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
CAT2 : P19/D45/CAT2	Name	CAT2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N1000001
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
INS1084480 : P19/TP73	Name	INS1084480
	ID	8711
	Reference	TP73
	Designator	
	Part Reference	TP73
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P19/TP73/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	AIN_AN2_POT
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS1006620 : P19/R141	Name	INS1006620
	ID	6837
	Reference	R141
	Designator	
	Part Reference	R141
	Value	10k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-0710KL
	Description	RES SMD 10K OHM 1% 1/10W 0603
	Digi-Key PN	311-10.0KHZCT-ND
	digikey_id	{distributorPn:311-10.0KHZCT-ND,mfr:Yageo,mpn:RC0603FR-0710KL,ul:uid}

Object	Property Name	Property Value
1 : P19/R141/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	BTN_1
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P19/R141/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1066310 : P19/D46	Name	INS1066310
	ID	8050
	Reference	D46
	Designator	
	Part Reference	D46
	Value	TVS 3V3 DL
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	sot23-3
	Manufacturer	Diodes Incorporated
	Manufacturer PN	D1213A-02SOL-7
	Description	TVS DIODE 3.3V 10V SOT23
	Digi-Key PN	D1213A-02SOL-7DICT-ND
	digikey_id	{distributorPn:D1213A-02SOL-7DICT-ND,mfr:Diodes Incorporated,mpn:D1213A-02SOL-7DICT-ND}
	Distributor	
	Distributor PN	

Object	Property Name	Property Value
CA : P19/D46/CA	Name	CA
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
CAT1 : P19/D46/CAT1	Name	CAT1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	BTN_4
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
CAT2 : P19/D46/CAT2	Name	CAT2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	BTN_3
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
INS64 : P19/U34	Name	INS64
	ID	6504
	Reference	U34
	Designator	
	Part Reference	U34
	Value	PEC12R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	PEC12R
	Manufacturer	Bourns Inc.
	Manufacturer PN	PEC12R-4220F-S0024
	Description	ROTARY ENCODER MECHANICAL 24PPR
	Digi-Key PN	PEC12R-4220F-S0024-ND
	digikey_id	{distributorPn:PEC12R-4220F-S0024-ND,mfr:Bourns Inc.,mpn:PEC12R-4220F-S0024}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
A : P19/U34/A	Name	A
	Number	1
	Swap Id	-1
	Type	Bidirectional
	Net Name	N999996
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
C : P19/U34/C	Name	C
	Number	2
	Swap Id	-1
	Type	Bidirectional
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
B : P19/U34/B	Name	B
	Number	3
	Swap Id	-1
	Type	Bidirectional
	Net Name	N1000001
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
COM : P19/U34/COM	Name	COM
	Number	4
	Swap Id	-1
	Type	Bidirectional
	Net Name	DGND
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
NO : P19/U34/NO	Name	NO
	Number	5
	Swap Id	-1
	Type	Bidirectional
	Net Name	N999245
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
DGND : P19/U34/DGND	Name	DGND
	Number	6
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	5
	Is No Connect	False

Object	Property Name	Property Value
DGND : P19/U34/DGND	Name	DGND
	Number	7
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	6
	Is No Connect	False

Object	Property Name	Property Value
INS1069813 : P19/D48	Name	INS1069813
	ID	8074
	Reference	D48
	Designator	
	Part Reference	D48
	Value	TVS 3V3 DL
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	sot23-3
	Manufacturer	Diodes Incorporated
	Manufacturer PN	D1213A-02SOL-7
	Description	TVS DIODE 3.3V 10V SOT23
	Digi-Key PN	D1213A-02SOL-7DICT-ND
	digikey_id	{distributorPn:D1213A-02SOL-7DICT-ND,mfr:Diodes Incorporated,mpn:D1213A-02SOL-7DICT-ND}
	Distributor	
	Distributor PN	

Object	Property Name	Property Value
CA : P19/D48/CA	Name	CA
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
CAT1 : P19/D48/CAT1	Name	CAT1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	ROT_ENC_SW
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
CAT2 : P19/D48/CAT2	Name	CAT2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	2
	Is No Connect	True

Object	Property Name	Property Value
INS1005414 : P19/SW5	Name	INS1005414
	ID	6809
	Reference	SW5
	Designator	
	Part Reference	SW5
	Value	btmsmt
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPh:CKN10283CT-ND,mfr:C&K,mpn:KSR233G LFG}
	Digi-Key PN	CKN10283CT-ND
	Description	SWITCH TACTILE SPST-NO 0.01A 32V
	Manufacturer PN	KSR233G LFG
	Manufacturer	C&K
	PCB Footprint	KSR233G
	Filename	

Object	Property Name	Property Value
1 : P19/SW5/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	BTN_4
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P19/SW5/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1067722 : P19/D42	Name	INS1067722
	ID	8070
	Reference	D42
	Designator	
	Part Reference	D42
	Value	TVS 3V3 DL
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Manufacturer	Diodes Incorporated
	Manufacturer PN	D1213A-02SOL-7
	Description	TVS DIODE 3.3V 10V SOT23
	Digi-Key PN	D1213A-02SOL-7DICT-ND
	digikey_id	{distributorPn:D1213A-02SOL-7DICT-ND,mfr:Diodes Incorporated,mpn:D1213A-02SOL-7DICT-ND}
	PCB Footprint	sot23-3
	Distributor	
	Distributor PN	

Object	Property Name	Property Value
CA : P19/D42/CA	Name	CA
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
CAT1 : P19/D42/CAT1	Name	CAT1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N1003420
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
CAT2 : P19/D42/CAT2	Name	CAT2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	
	Order	2
	Is No Connect	True

Object	Property Name	Property Value
INS1019983 : P19/C134	Name	INS1019983
	ID	7355
	Reference	C134
	Designator	
	Part Reference	C134
	Value	0.1uF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:1276-1000-1-ND,mfr:Samsung Electro-Mechanics,mpn:CL10B1
	Digi-Key PN	1276-1000-1-ND
	Description	CAP CER 0.1UF 50V X7R 0603
	Manufacturer PN	CL10B104KB8NNNC
	Manufacturer	Samsung Electro-Mechanics
	PCB Footprint	0603_cap_ipc
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P19/C134/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N1003420
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P19/C134/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS996940 : P19/U35	Name	INS996940
	ID	6516
	Reference	U35
	Designator	
	Part Reference	U35
	Value	MCP6L91
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:MCP6L91T-E/OTCT-ND,mfr:Microchip Technology,mpn:MCP6L91T-E/OTCT-ND}
	Digi-Key PN	MCP6L91T-E/OTCT-ND
	Description	IC OPAMP GP 1 CIRCUIT SOT23-5
	Manufacturer PN	MCP6L91T-E/OT
	Manufacturer	Microchip Technology
	PCB Footprint	sot23-5
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
OUT : P19/U35/OUT	Name	OUT
	Number	1
	Swap Id	-1
	Type	Power
	Net Name	N997070
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
V- : P19/U35/V-	Name	V-
	Number	2
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
IN+ : P19/U35/IN+	Name	IN+
	Number	3
	Swap Id	-1
	Type	Input
	Net Name	ENC_A
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
IN- : P19/U35/IN-	Name	IN-
	Number	4
	Swap Id	-1
	Type	Input
	Net Name	N997070
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
V+ : P19/U35/V+	Name	V+
	Number	5
	Swap Id	-1
	Type	Power
	Net Name	DVDD_5V0
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
INS1002066 : P19/R145	Name	INS1002066
	ID	6648
	Reference	R145
	Designator	
	Part Reference	R145
	Value	120R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:311-4.70KHRDKR-ND,mfr:Yageo,mpn:RC0603FR-074K7L,ul:u}
	Digi-Key PN	311-4.70KHRDKR-ND
	Description	RES SMD 4.7K OHM 1% 1/10W 0603
	Manufacturer PN	RC0603FR-074K7L
	Manufacturer	Yageo
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P19/R145/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	LED_3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P19/R145/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N1002361
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1002339 : P19/D52	Name	INS1002339
	ID	6673
	Reference	D52
	Designator	
	Part Reference	D52
	Value	LED
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	dio_0603
	Manufacturer	Würth Elektronik
	Manufacturer PN	150060GS75000
	Description	LED GREEN CLEAR 0603 SMD
	Digi-Key PN	732-4971-1-ND
	digikey_id	{distributorPn:732-4971-1-ND,mfr:Würth Elektronik,mpn:150060GS75000}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
ANODE : P19/D52/ANODE	Name	ANODE
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N1002357
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
CATHODE : P19/D52/CATHODE	Name	CATHODE
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS999721 : P19/R135	Name	INS999721
	ID	6595
	Reference	R135
	Designator	
	Part Reference	R135
	Value	10k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-0710KL
	Description	RES SMD 10K OHM 1% 1/10W 0603
	Digi-Key PN	311-10.0KHRCT-ND
	digikey_id	{distributorPn:311-10.0KHRCT-ND,mfr:Yageo,mpn:RC0603FR-0710KL,ul:{uid}}

Object	Property Name	Property Value
1 : P19/R135/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_5V0
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P19/R135/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N999996
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1066194 : P19/D47	Name	INS1066194
	ID	8046
	Reference	D47
	Designator	
	Part Reference	D47
	Value	TVS 3V3 DL
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	sot23-3
	Manufacturer	Diodes Incorporated
	Manufacturer PN	D1213A-02SOL-7
	Description	TVS DIODE 3.3V 10V SOT23
	Digi-Key PN	D1213A-02SOL-7DICT-ND
	digikey_id	{distributorPn:D1213A-02SOL-7DICT-ND,mfr:Diodes Incorporated,mpn:D1213A-02SOL-7DICT-ND}
	Distributor	
	Distributor PN	

Object	Property Name	Property Value
CA : P19/D47/CA	Name	CA
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
CAT1 : P19/D47/CAT1	Name	CAT1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	BTN_2
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
CAT2 : P19/D47/CAT2	Name	CAT2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	BTN_1
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
INS1002084 : P19/R146	Name	INS1002084
	ID	6645
	Reference	R146
	Designator	
	Part Reference	R146
	Value	120R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:311-4.70KHRDKR-ND,mfr:Yageo,mpn:RC0603FR-074K7L,u:u}
	Digi-Key PN	311-4.70KHRDKR-ND
	Description	RES SMD 4.7K OHM 1% 1/10W 0603
	Manufacturer PN	RC0603FR-074K7L
	Manufacturer	Yageo
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P19/R146/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	LED_4
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P19/R146/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N1002357
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1013013 : P19/Q4	Name	INS1013013
	ID	7042
	Reference	Q4
	Designator	
	Part Reference	Q4
	Value	MMBT2222L
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:MMBT2222LT1GOSCT-ND,mfr:ON Semiconductor,mpn:MMBT2222LT1GOSCT-ND,u:u}
	Digi-Key PN	MMBT2222LT1GOSCT-ND
	Description	TRANS NPN 30V 600MA SOT23-3
	Manufacturer PN	MMBT2222LT1G
	Manufacturer	ON Semiconductor
	PCB Footprint	sot23-3
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
B : P19/Q4/B	Name	B
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N1009461
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
C : P19/Q4/C	Name	C
	Number	3
	Swap Id	-1
	Type	Passive
	Net Name	N1009950
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
E : P19/Q4/E	Name	E
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
INS999093 : P19/R140	Name	INS999093
	ID	6578
	Reference	R140
	Designator	
	Part Reference	R140
	Value	33R
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:P33.2LCT-ND,mfr:Panasonic Electronic Components,mprn:ERJ-2RKF33R2X}
	Digi-Key PN	P33.2LCT-ND
	Description	RES SMD 33.2 OHM 1% 1/10W 0402
	Manufacturer PN	ERJ-2RKF33R2X
	Manufacturer	Panasonic Electronic Components
	PCB Footprint	0402_res_ipc

Object	Property Name	Property Value
1 : P19/R140/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	N999245
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P19/R140/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	ROT_ENC_SW
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1002705 : P19/U33	Name	INS1002705
	ID	6717
	Reference	U33
	Designator	
	Part Reference	U33
	Value	MCP6L91
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:MCP6L91T-E/OTCT-ND,mfr:Microchip Technology,mpn:MCP6L91T-E/OTCT-ND}
	Digi-Key PN	MCP6L91T-E/OTCT-ND
	Description	IC OPAMP GP 1 CIRCUIT SOT23-5
	Manufacturer PN	MCP6L91T-E/OT
	Manufacturer	Microchip Technology
	PCB Footprint	sot23-5
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
OUT : P19/U33/OUT	Name	OUT
	Number	1
	Swap Id	-1
	Type	Power
	Net Name	AIN_AN2_POT
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
V- : P19/U33/V-	Name	V-
	Number	2
	Swap Id	-1
	Type	Power
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
IN+ : P19/U33/IN+	Name	IN+
	Number	3
	Swap Id	-1
	Type	Input
	Net Name	N1003420
	Order	2
	Is No Connect	False

Object	Property Name	Property Value
IN- : P19/U33/IN-	Name	IN-
	Number	4
	Swap Id	-1
	Type	Input
	Net Name	AIN_AN2_POT
	Order	3
	Is No Connect	False

Object	Property Name	Property Value
V+ : P19/U33/V+	Name	V+
	Number	5
	Swap Id	-1
	Type	Power
	Net Name	AVDD_3V3
	Order	4
	Is No Connect	False

Object	Property Name	Property Value
INS1010007 : P19/D43	Name	INS1010007
	ID	6985
	Reference	D43
	Designator	
	Part Reference	D43
	Value	LL4148
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	MiniMELF-SOD80
	Manufacturer	ON Semiconductor
	Manufacturer PN	LL4148
	Description	DIODE GEN PURP 100V 200MA SOD80
	Digi-Key PN	LL4148FSCT-ND
	digikey_id	{distributorPn:LL4148FSCT-ND,mfr:ON Semiconductor,mpn:LL4148}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
A : P19/D43/A	Name	A
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N1009950
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
K : P19/D43/K	Name	K
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1006590 : P19/R139	Name	INS1006590
	ID	6834
	Reference	R139
	Designator	
	Part Reference	R139
	Value	10k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-0710KL
	Description	RES SMD 10K OHM 1% 1/10W 0603
	Digi-Key PN	311-10.0KHRCT-ND
	digikey_id	{distributorPn:311-10.0KHRCT-ND,mfr:Yageo,mpn:RC0603FR-0710KL,ul:{uid}}

Object	Property Name	Property Value
1 : P19/R139/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	BTN_2
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P19/R139/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_3V3
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS999739 : P19/R133	Name	INS999739
	ID	6592
	Reference	R133
	Designator	
	Part Reference	R133
	Value	10k
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-0710KL
	Description	RES SMD 10K OHM 1% 1/10W 0603
	Digi-Key PN	311-10.0KHRCT-ND
	digikey_id	{distributorPn:311-10.0KHRCT-ND,mfr:Yageo,mpn:RC0603FR-0710KL,ul:{uid}}

Object	Property Name	Property Value
1 : P19/R133/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DVDD_5V0
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P19/R133/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N1000001
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1084553 : P19/TP76	Name	INS1084553
	ID	8713
	Reference	TP76
	Designator	
	Part Reference	TP76
	Value	test_pad
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	tp_cir_45mil

Object	Property Name	Property Value
Test : P19/TP76/Test	Name	Test
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	BUZZ
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
INS997394 : P19/R148	Name	INS997394
	ID	6540
	Reference	R148
	Designator	
	Part Reference	R148
	Value	10k7
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	Manufacturer	Stackpole Electronics Inc
	Manufacturer PN	RMCF0603FT10K7
	Description	RES 10.7K OHM 1% 1/10W 0603
	Digi-Key PN	RMCF0603FT10K7CT-ND
	digikey_id	{distributorPn:RMCF0603FT10K7CT-ND,mfr:Stackpole Electronics Inc,mpn:RMCF0603FT10K7}
	PCB Footprint	0603_res_ipc

Object	Property Name	Property Value
1 : P19/R148/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	ROT_ENC_B
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P19/R148/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N997420
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1005384 : P19/SW4	Name	INS1005384
	ID	6806
	Reference	SW4
	Designator	
	Part Reference	SW4
	Value	btsmt
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	digikey_id	{distributorPn:CKN10283CT-ND,mfr:C&K,mpn:KSR233G LFG}
	Digi-Key PN	CKN10283CT-ND
	Description	SWITCH TACTILE SPST-NO 0.01A 32V
	Manufacturer PN	KSR233G LFG
	Manufacturer	C&K
	PCB Footprint	KSR233G
	Filename	

Object	Property Name	Property Value
1 : P19/SW4/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	BTN_3
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P19/SW4/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS999861 : P19/C136	Name	INS999861
	ID	6601
	Reference	C136
	Designator	
	Part Reference	C136
	Value	10nF
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_cap_ipc
	Manufacturer	AVX Corporation
	Manufacturer PN	06035C103KAT2A
	Description	CAP CER 10000PF 50V X7R 0603
	Digi-Key PN	478-1227-1-ND
	digikey_id	{distributorPn:478-1227-1-ND,mfr:AVX Corporation,mpn:06035C103KAT2A,uln:
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
1 : P19/C136/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	ENC_B
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P19/C136/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1002309 : P19/D51	Name	INS1002309
	ID	6670
	Reference	D51
	Designator	
	Part Reference	D51
	Value	LED
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	dio_0603
	Manufacturer	Würth Elektronik
	Manufacturer PN	150060GS75000
	Description	LED GREEN CLEAR 0603 SMD
	Digi-Key PN	732-4971-1-ND
	digikey_id	{distributorPn:732-4971-1-ND,mfr:Würth Elektronik,mpn:150060GS75000}
	Distributor PN	
	Distributor	

Object	Property Name	Property Value
ANODE : P19/D51/ANODE	Name	ANODE
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N1002361
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
CATHODE : P19/D51/CATHODE	Name	CATHODE
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	DGND
	Order	1
	Is No Connect	False

Object	Property Name	Property Value
INS1004332 : P19/R131	Name	INS1004332
	ID	6760
	Reference	R131
	Designator	
	Part Reference	R131
	Value	39R2
	Primitive	DEFAULT
	Implementation Type	<none>
	Implementation	
	Implementation Path	
	PCB Footprint	0603_res_ipc
	Manufacturer	Yageo
	Manufacturer PN	RC0603FR-0739R2L
	Description	RES SMD 39.2 OHM 1% 1/10W 0603
	Digi-Key PN	311-39.2HRCT-ND
	digikey_id	{distributorPn:311-39.2HRCT-ND,mfr:Yageo,mpn:RC0603FR-0739R2L,ul:{uid}}

Object	Property Name	Property Value
1 : P19/R131/1	Name	1
	Number	1
	Swap Id	-1
	Type	Passive
	Net Name	RGB_G
	Order	0
	Is No Connect	False

Object	Property Name	Property Value
2 : P19/R131/2	Name	2
	Number	2
	Swap Id	-1
	Type	Passive
	Net Name	N1004356
	Order	1
	Is No Connect	False