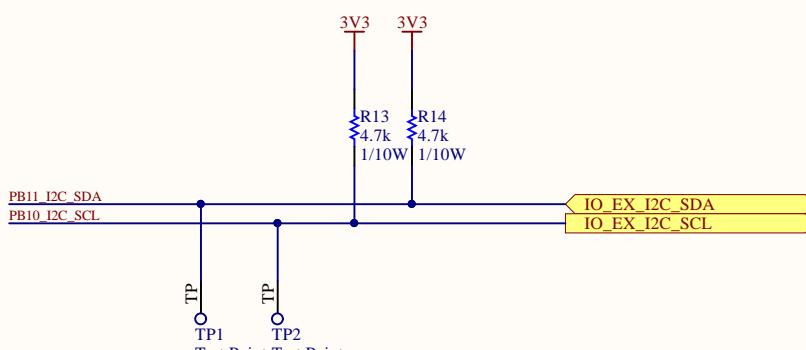
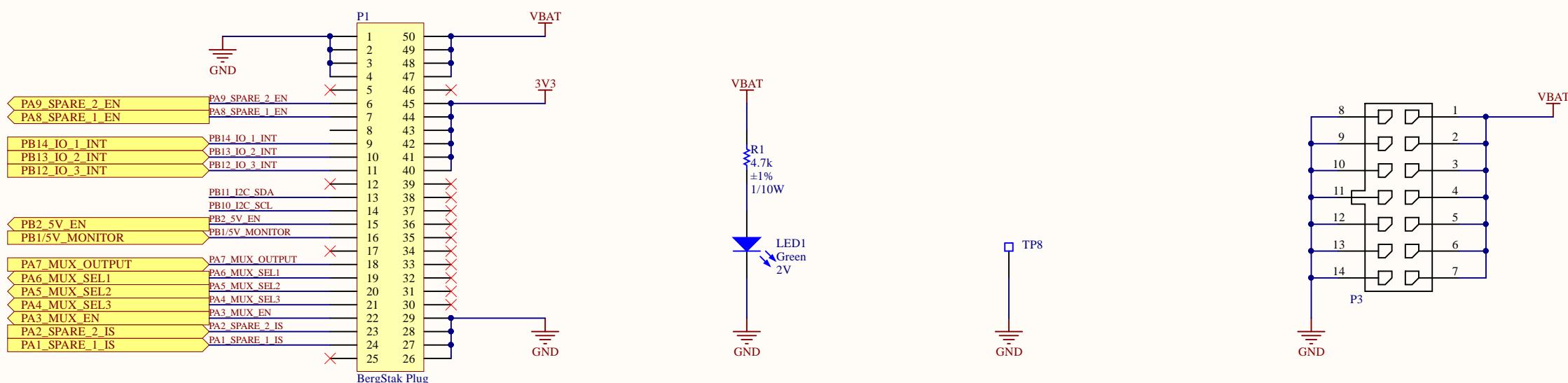
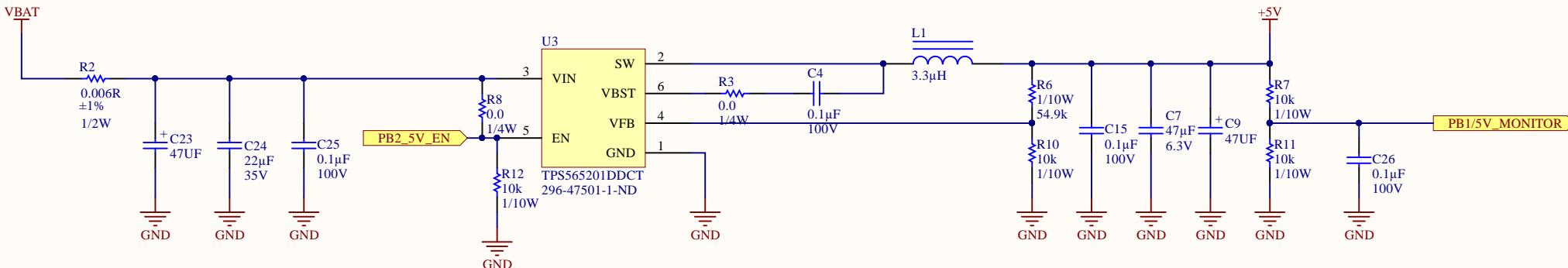
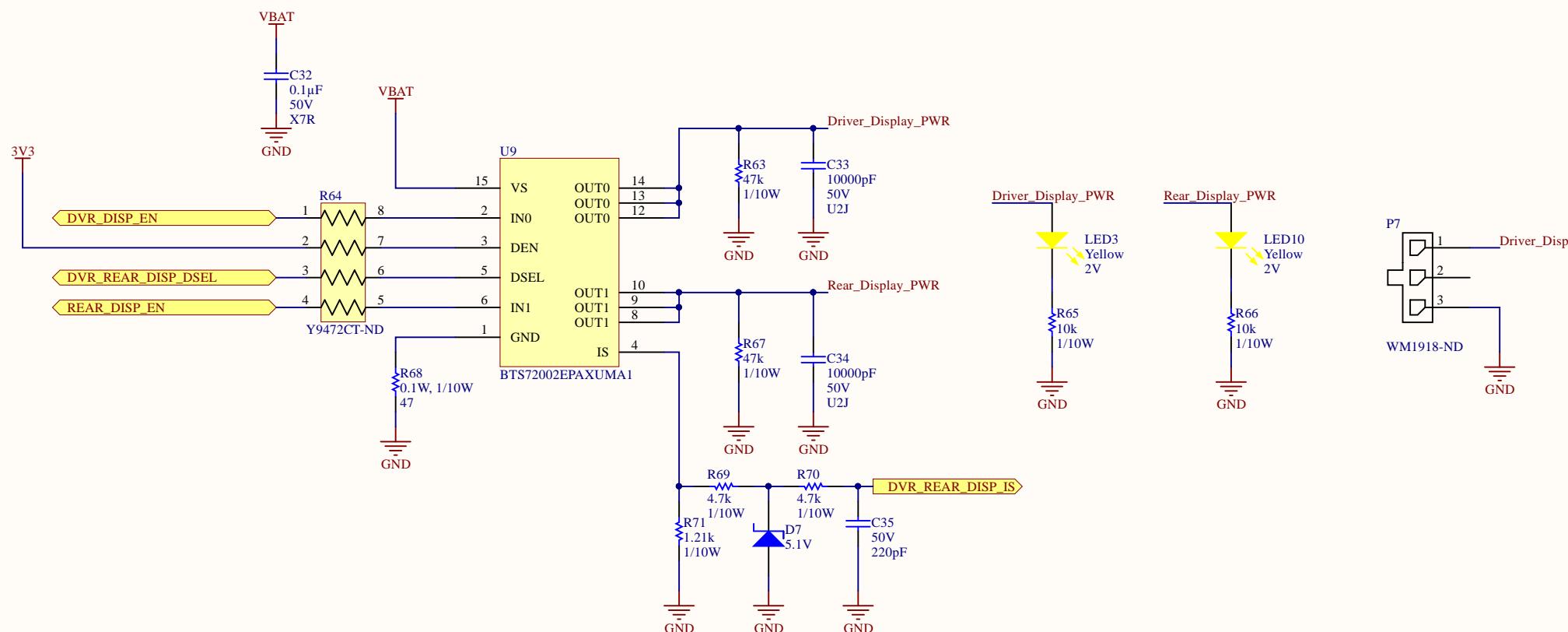


## Regulator

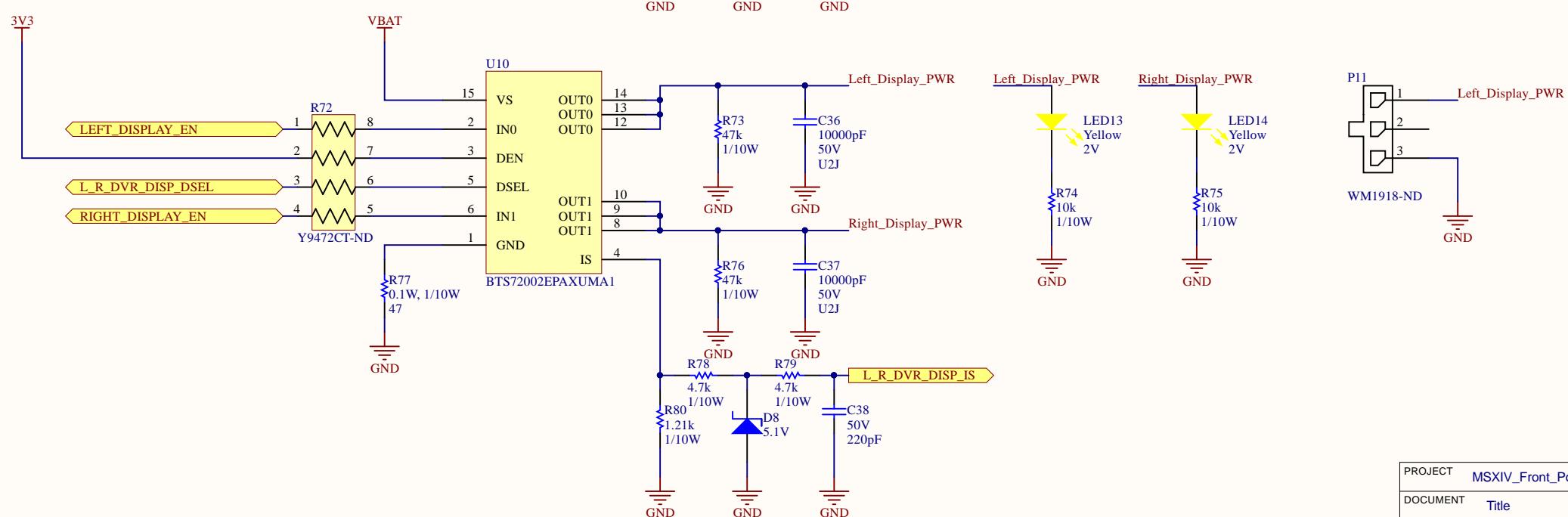


PROJECT	MSXIV_Front_Power_Distribution.PrjPcb
DOCUMENT	Controller Board Interface
PART NUMBER	VARIANT [No Variations]
DRAWN BY	REVISION
LAST MODIFIED	2020-01-31
SHEET *	OF *

A



B

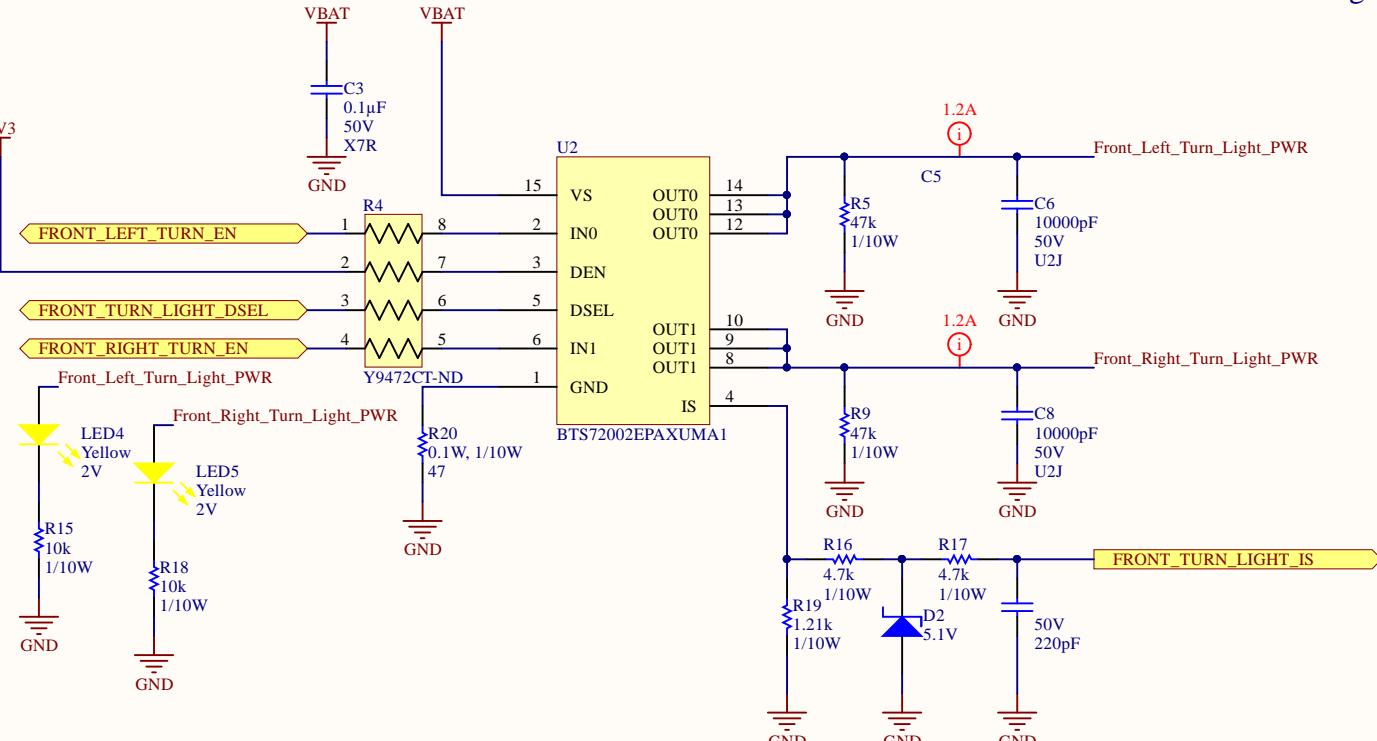


D

PROJECT	MSXIV_Front_Power_Distribution.PrjPcb	MIDNIGHT SUN
DOCUMENT	Title	
PART NUMBER	VARIANT [No Variations]	
DRAWN BY	REVISION	
LAST MODIFIED	2020-01-31	SHEET * OF *

Engineering 5 - 1002  
University of Waterloo  
(519) 888-4567 x32978  
hardware@uwmidsun.com

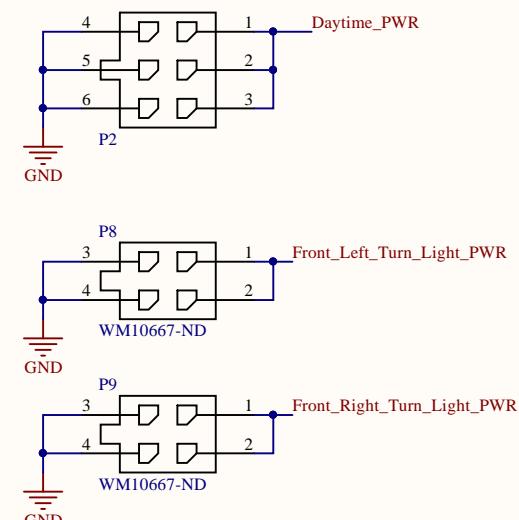
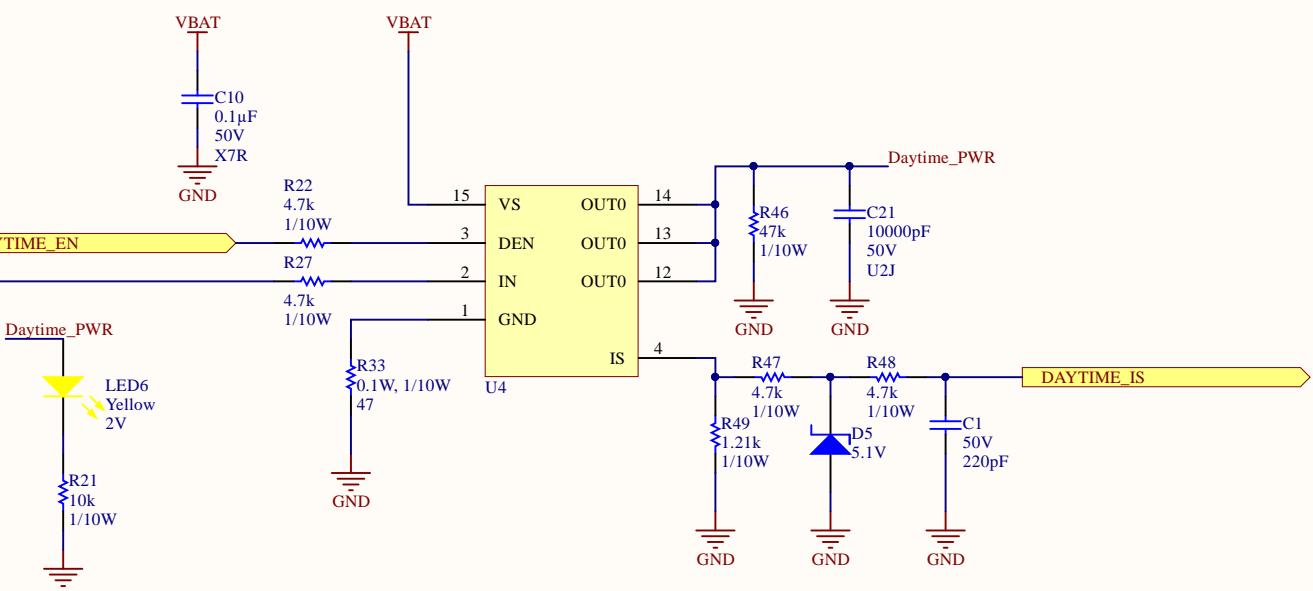
## Front light



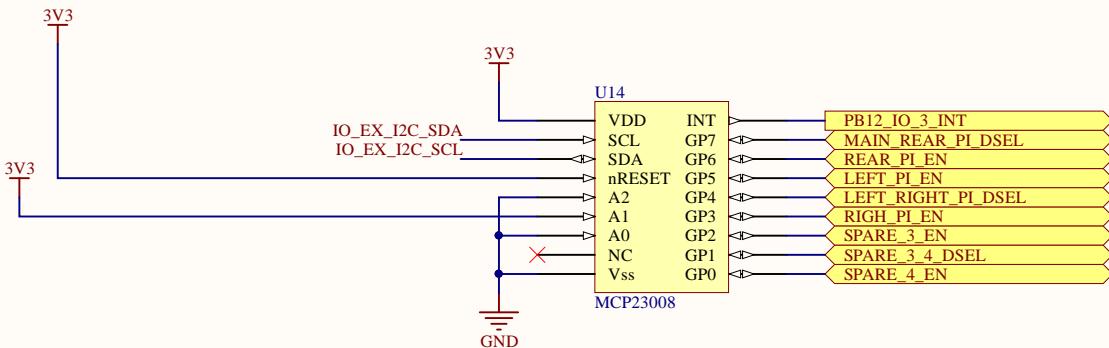
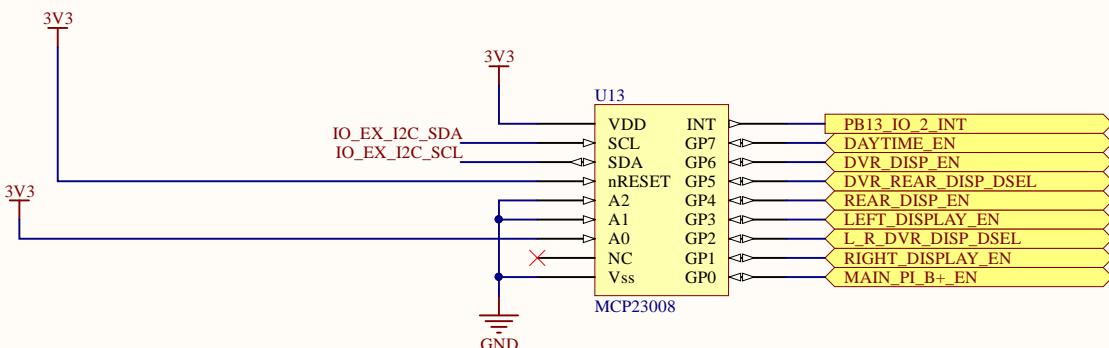
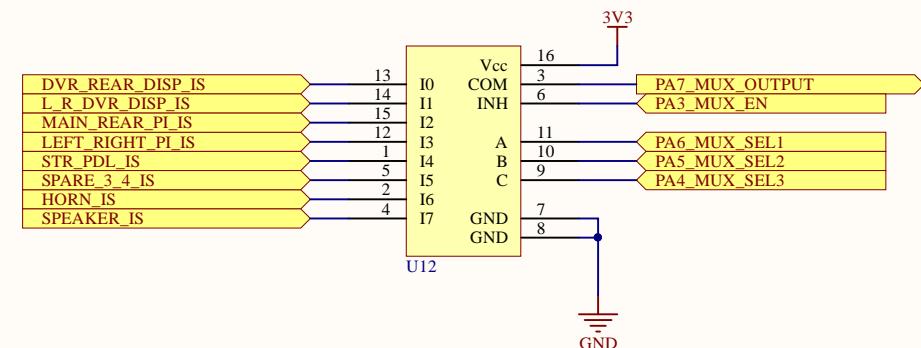
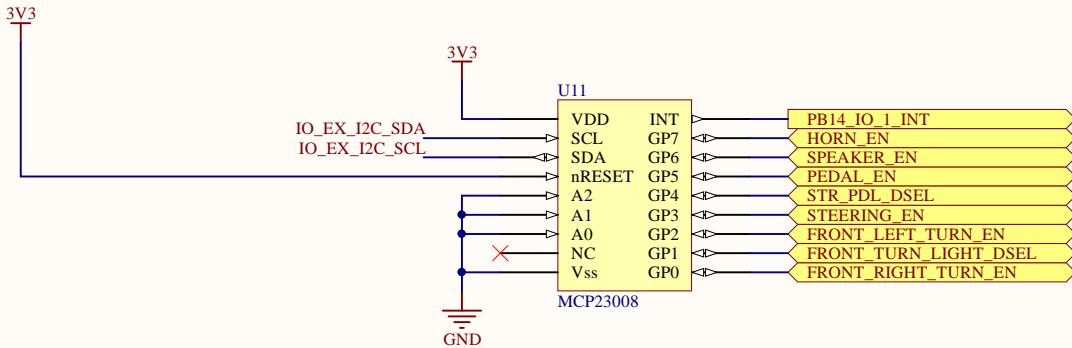
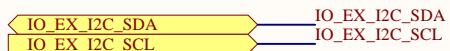
- Light Load
- Nominal Current: 1.2 A
- Overload Current: 8.7 - 11.5 A
- Based on the specs of BTS7200-2EPC

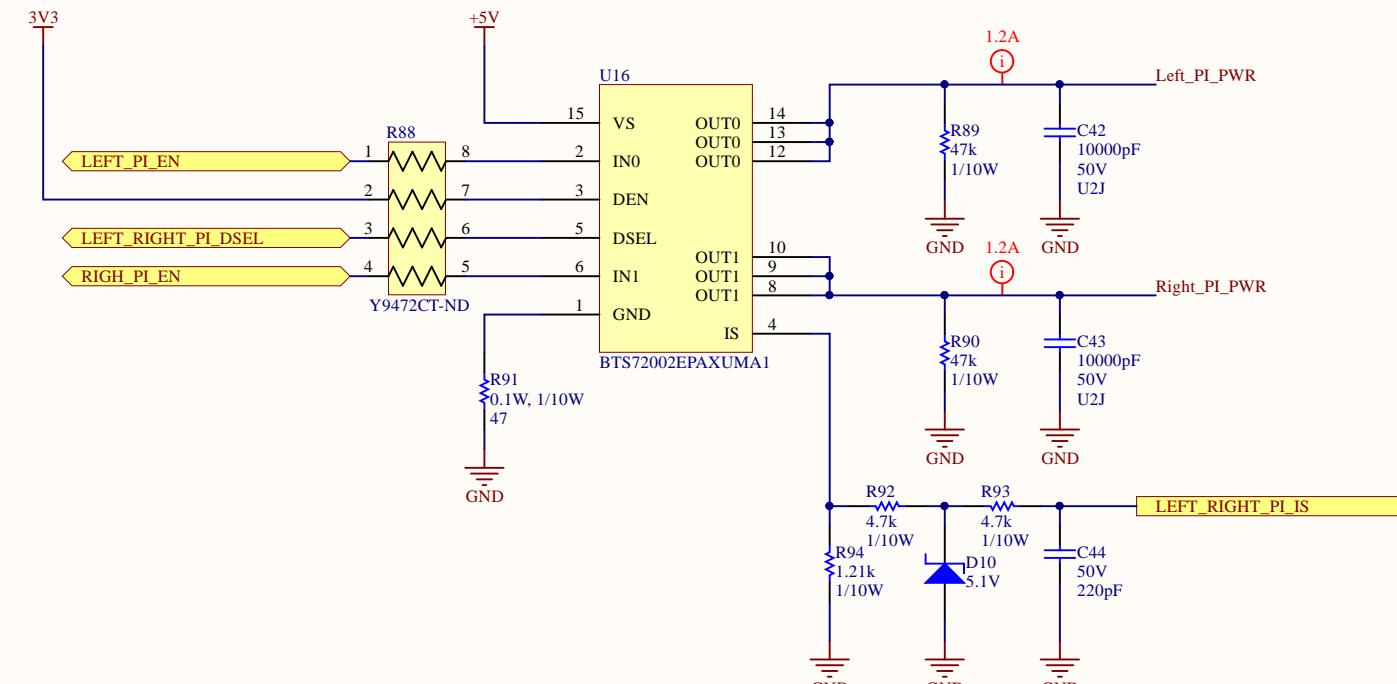
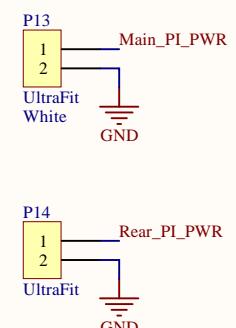
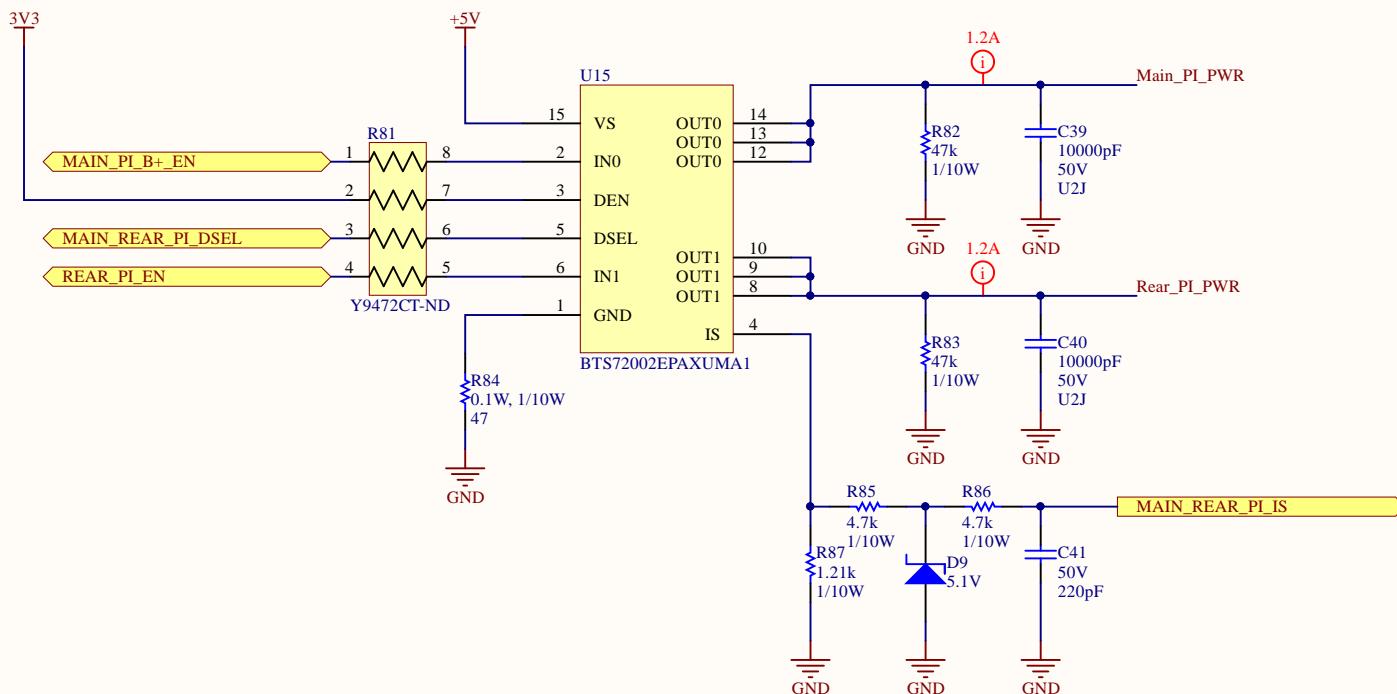
- Draws 4mA when active



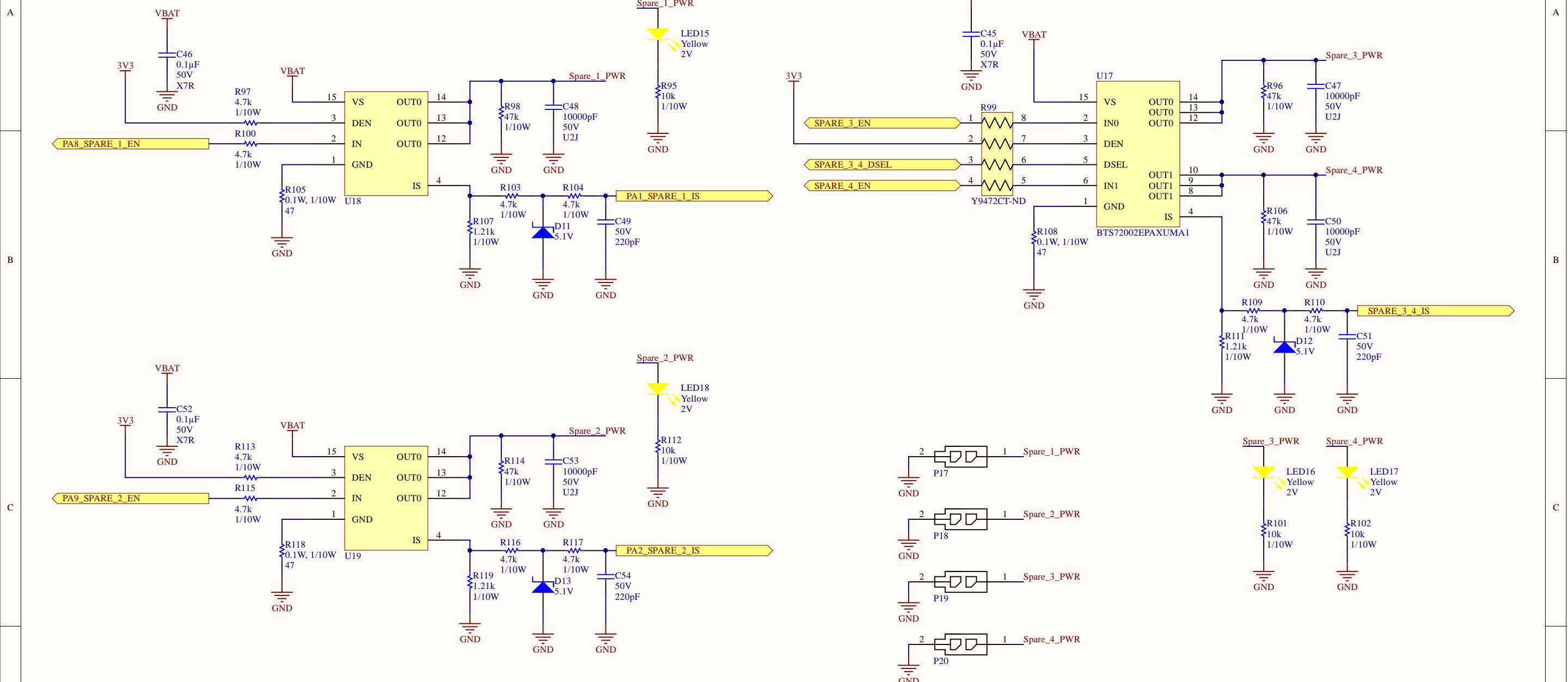
PROJECT	MSXIV_Front_Power_Distribution.PrjPcb	
DOCUMENT	Title	
PART NUMBER	VARIANT	[No Variations]
DRAWN BY	REVISION	
LAST MODIFIED	2020-01-31	SHEET * OF *



PROJECT	MSXIV_Front_Power_Distribution.PrjPcb	MIDNIGHT SUN
DOCUMENT	Title	
PART NUMBER	VARIANT [No Variations]	
DRAWN BY	REVISION	
LAST MODIFIED	2020-01-31	SHEET * OF *

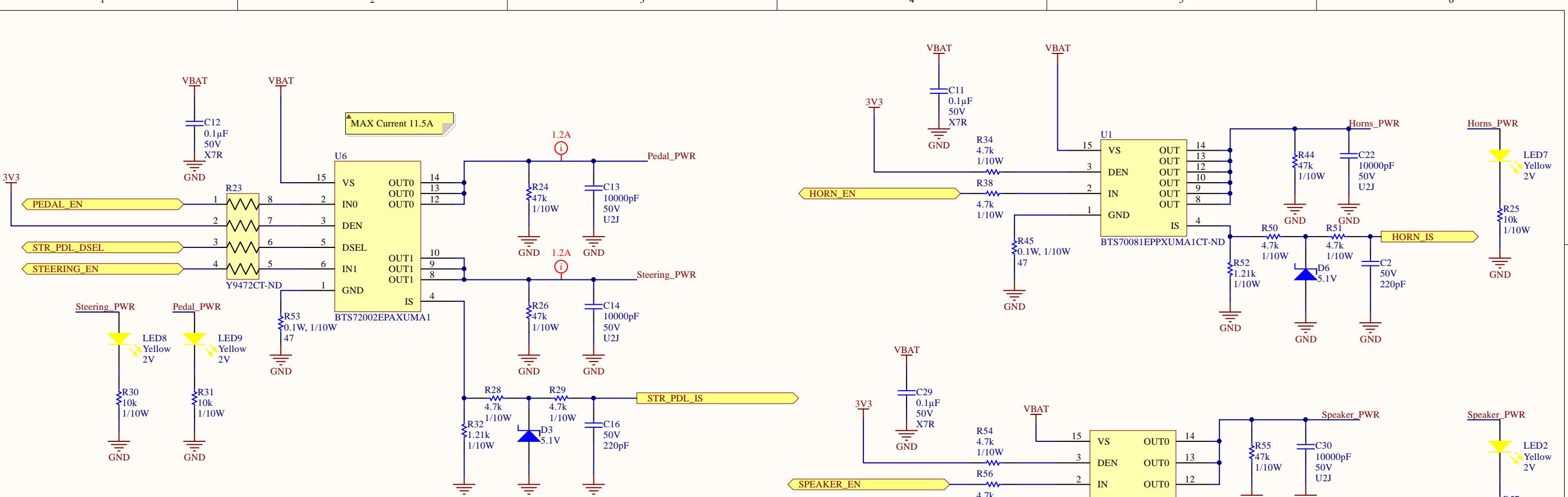


PROJECT	MSXIV_Front_Power_Distribution.PrjPcb	MIDNIGHT SUN
DOCUMENT	Title	
PART NUMBER	VARIANT [No Variations]	
DRAWN BY	REVISION	
LAST MODIFIED	2020-01-31	SHEET * OF *

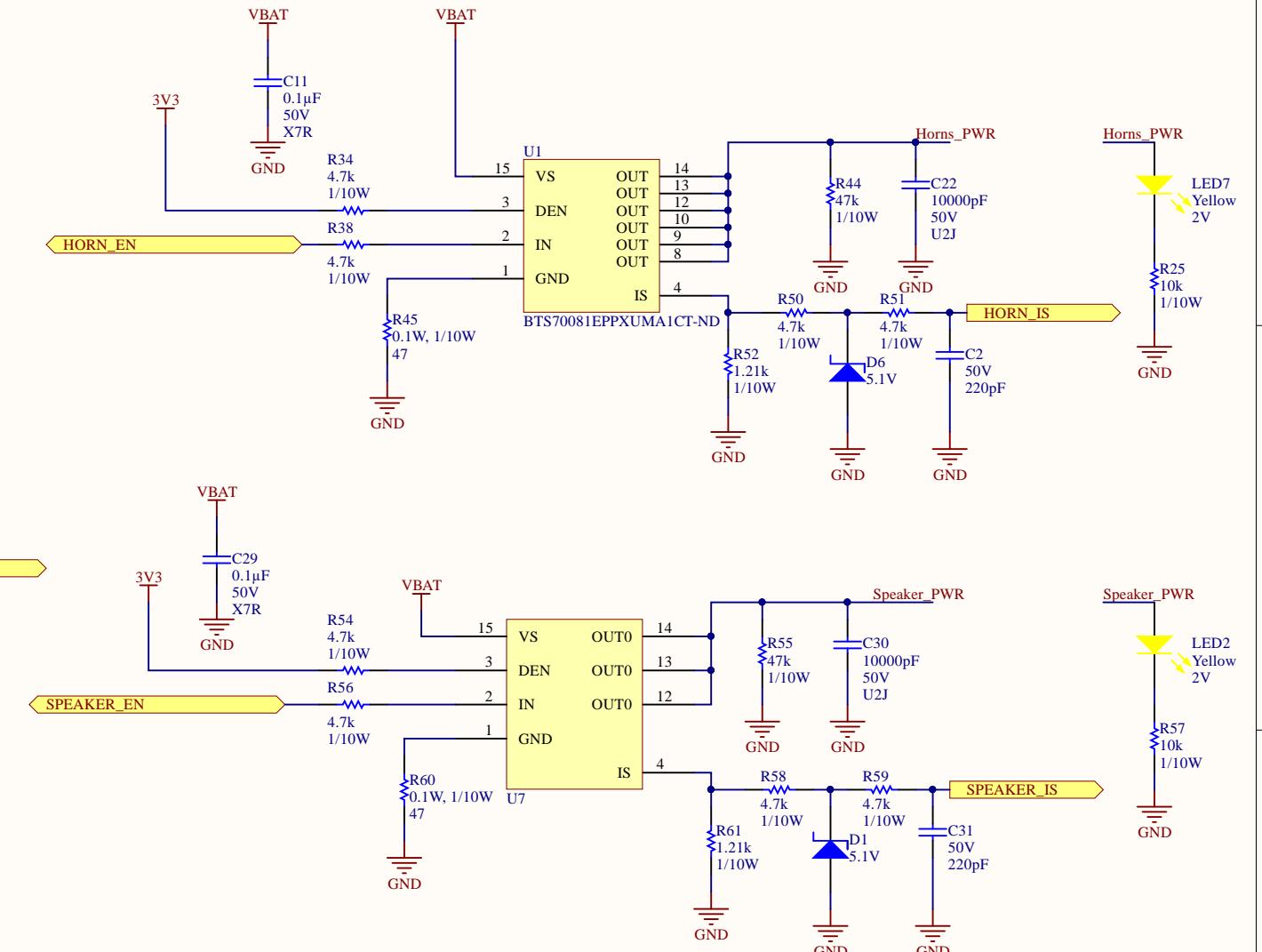


PROJECT	MSXIV_Front_Power_Distribution.PrbPcb	MIDNIGHT SUN
DOCUMENT	Title	
PART NUMBER	VARIANT [No Variations]	
DRAWN BY	REVISION	
LAST MODIFIED	2020-01-31	
SHEET *	OF *	

A



B



C

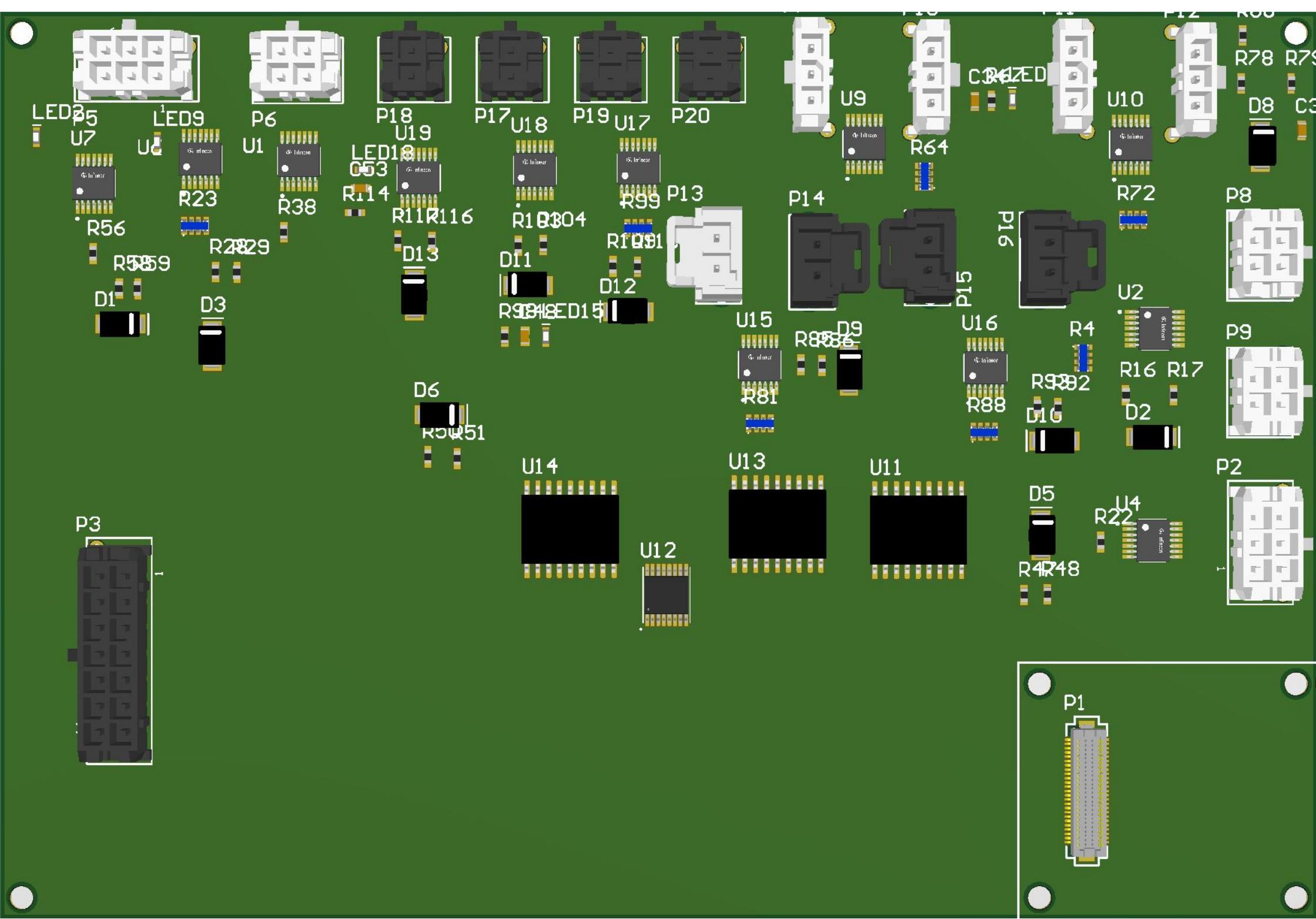
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DOCUMENT	Title	
PART NUMBER	VARIANT [No Variations]	
DRAWN BY	REVISION	
LAST MODIFIED	2020-01-31	SHEET * OF *
hardware@uwmidsun.com		Engineering 5 - 1002 University of Waterloo (519) 888-4567 x32978

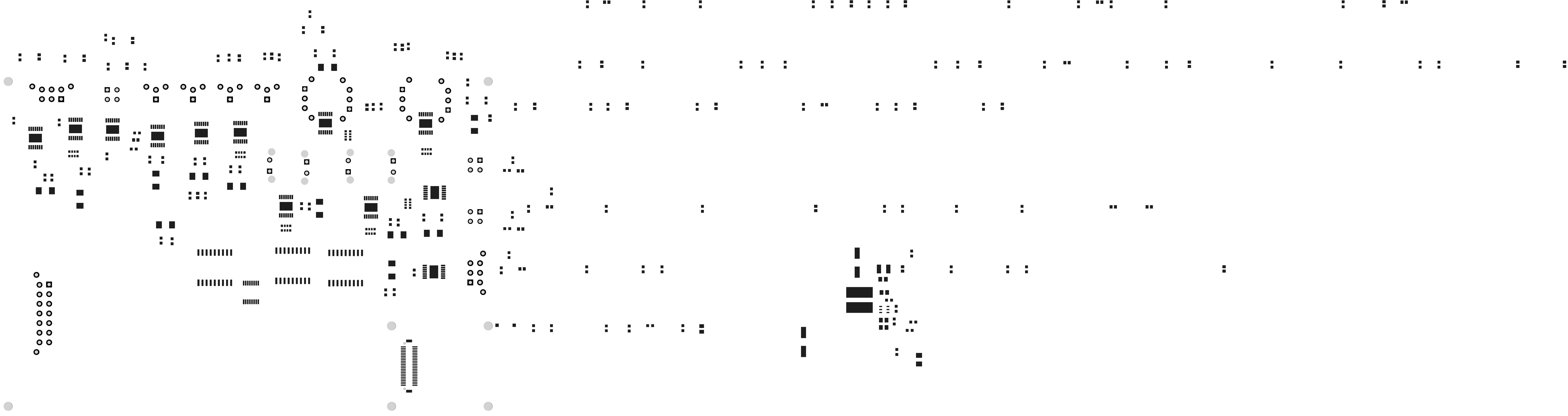
## Bill of Materials

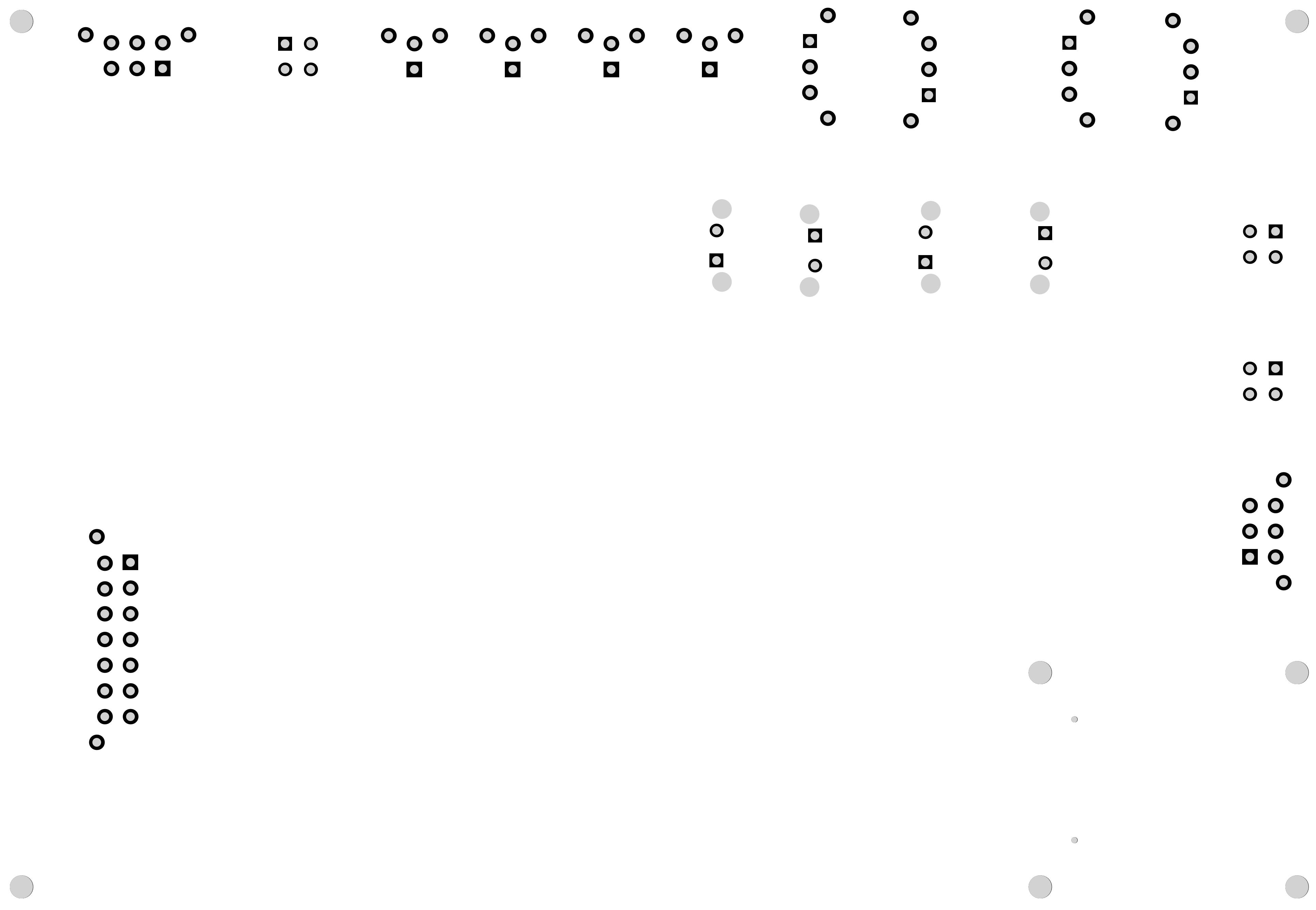
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Revision:	<Parameter ProjectRevision not found>
Project Lead:	<Parameter ProjectAuthor not found>
Generated On:	2020-01-31 11:44 PM
Production Quantity:	1
Currency	CAD
Total Parts Count:	224

MIDNIGHT SUN

LibRef	Designator	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Quantity	Supplier Subtotal 1
CAP_CER_220PF50V_COG/NP0603	C5,C16,C31,C35,C38,C41,C44,C49,C5	KEMET	C0603C221J5GACAT0	Digi-Key	399-68681-1ND	0.11621	12	\$ 1.39
CAP_CER_0.1UF_50V_10%_X7R_0603	C3,C10,C11,C12,C29,C32,C45,C46,C52	Kyocera AVX	0603S1C04KAT2A	Digi-Key	478-5052-1-ND	0.13205	9	\$ 1.19
CAP_CER_0.1UF_100V_10%_X7R_0805	C4,C15,C25,C26	Murata	GCM21BR72A104KA37L	Digi-Key	490-47891-1-ND	0.42257	4	\$ 1.69
CAP_CER_10nF_50V_5%_X7R_0603	22,C30,C33,C34,C36,C37,C39,C40,C42	KEMET	C0603C103J5JACTU	Digi-Key	399-13384-1-ND	0.2958	19	\$ 5.62
CAP_CER_47uF_6.3V_X7R_1210	C7	Murata	GCJ32ER70J47KE01	Digi-Key	490-10559-1-ND	1.77	1	\$ 1.77
CAP_ALUM47uF_20%_35V_SMD	C9,C23	Panasonic	EEE-1VA470W/P	Digi-Key	PCE3961CTND	0.54142	2	\$ 1.08
CAP_CER_22uF_35V_X5R_0805	C24	TDK	C2012X5R1V226M125AC	Digi-Key	445-14424-1-ND	1.51	1	\$ 1.51
DIODE_ZENER_5.1V_500mW_SOD123	D2,D3,D5,D6,D7,D8,D9,D10,D11,D12,D	ON Semiconductor	MMSZ5231BT1G	Digi-Key	MSZ5231BT1GOSCT-N	0.21525	12	\$ 2.58
IND_3.3uH_5.2A20MOHMSMD	L1	TDK	VLP8040T-3R3N	Digi-Key	445-6581-1-ND	1		
LED_GREENCLEAR2V_0603	LED1	Wurth Electronics	150060V/S75000	Digi-Key	732-49801-1-ND	0.18487	1	\$ 0.18
LED_YELLOWCLEAR2V_1V_0603	LED7,LED8,LED9,LED10,LED13,LED14	Wurth Electronics	150060V/S75000	Digi-Key	732-49811-1-ND	0.18487	15	\$ 2.77
CONN_6POS_Bergstak_Plug_0.02"	P1	Amphenol FCI	10132797-055100LF	Digi-Key	609-5226-1-ND	1.9	1	\$ 1.90
CONN_6POS_MICRO-FIT3mm	P2,P5	Moex	0430450627	Digi-Key	WM10673-ND	2.09	2	\$ 4.17
CONN_14POS_MICRO-FIT3mm	P3	Moex	43045-1427	Digi-Key	WM10707-ND	4.3	1	\$ 4.30
CONN_4POS_MICRO-FIT3mm	P6,P8,P9	Moex	43045-0427	Digi-Key	WM10667-ND	1.77	3	\$ 5.31
CONN_3POS_MICROFIT	P7,P10,P11,P12	Moex	43650-0315	Digi-Key	WM1918-ND	1.36	4	\$ 5.44
CONN_2POS_ULTRA-FITNATURAL COLOR 0.13"	P13	Moex	1722872102	Digi-Key	WM11722-ND	1.14	1	\$ 1.14
CONN_2POS_ULTRA-FIT0.13"	P14,P15,P16	Moex	1722871-1102	Digi-Key	WM11701-ND	1.03	3	\$ 3.09
CONN_2POS_MICRO-FIT3mm	P17,P18,P19,P20	Moex	0430450227	Digi-Key	WM10657-ND	1.11	4	\$ 4.44
RES_4.7K_OHM%_1/10W_0603	54,R56,R58,R59,R69,R70,R78,R79,R85	Yageo Phycomp	RC0603FR-074KQ	Digi-Key	311-4.70KHRCTND	0.03037	37	\$ 1.12
RES_0.008_OHM%_1/2W_1206	R2	Panasonic	ERJMP2KF6M0U	Digi-Key	P19333CTND	1		
RES_0.00H_OHM%1/4W_0603	R3,R8	Vishay Dale	CRCW0603000020EAOHP	Digi-Key	541-0.0SBCTND	0.19808	2	\$ 0.40
RES_ARRAY_4RES_4.7K_OHM1206	R4,R23,R64,R72,R81,R88,R99	Panasonic	EXB-38V472JV	Digi-Key	Y9472CTND	0.13205	7	\$ 0.92
RES_47K_OHM%_1/10W_0603	5,R55,R63,R67,R73,R76,R82,R83,R89,R	Panasonic	ERJ3EKF4702V	Digi-Key	P47.0KHTCTND	0.07527	19	\$ 1.43
RES_54.9K_OHM%_1/10W_0603	R6	Panasonic	ERJ-3EKF5492V	Digi-Key	P54.9KHCTND	0.13205	1	\$ 0.13
RES_10K_OHM%_1/10W_0603	3,R21,R25,R30,R31,R57,R65,R66,R74,R	Yageo Phycomp	RC0603FR-0710KL	Digi-Key	311-10.0KHRCTND	0.03037	19	\$ 0.58
RES_1.21K_OHM%_1/10W_0603	R49,R52,R61,R71,R80,R87,R97,R104,R	Yageo	RC0603FR-071K2L	Digi-Key	311-1.21KHRCTND	0.03037	12	\$ 0.36
RES_SMD_47_OHM%_1/10W_0603	R45,R53,R60,R68,R77,R84,R91,R105,R	Yageo	AC0603FR-0747RL	Digi-Key	311-47LDTCTND	0.03697	12	\$ 0.44
Test Point_0603_SMD	TP8	CGS-TE CONNECTIVITY	RCU-OC	Digi-Key	A106145CTND	0.31693	1	\$ 0.32
IC LOAD SWITCH_BT570081EPPXUMA1	U1	Infineon	BT570081EPPXUMA1	Digi-Key	S70081EPPXUMA1CT-N	2.76	1	\$ 2.76
LOAD SWITCH_BT57200-2EPAFP-TSDSO-14	U2,U6,U9,U10,U15,U16,U17	Infineon	BT572002EPAXUMA1	Digi-Key	S72002EPAXUMA1CT-N	1.72	7	\$ 12.02
REG_BUCK4.5V_TO17V_5A_SYNCHRONOUS	U3	Texas Instruments	TPS565201DDCT	Digi-Key	296-47501-1-ND	2.03	1	\$ 2.03
LOAD SWITCH_BT570401EPAFP-TSDSO-14-	U4,U7,U18,U19	Infineon	BT570401EPAXUMA1	Digi-Key	S70401EPAXUMA1CT-N	1.76	4	\$ 7.03
IC /I/O EXPANDER_I2C_8B_18SOIC	U11,U13,U14	Microchip	MCP23008T-E/SO	Digi-Key	MCP23008T-E/SOCTND	1.35	3	\$ 4.04
IC_MUX/DMUX_8X1_16TSSOP	U12	Texas Instruments	SN74LV4051AQPWRQ1	Digi-Key	296-29043-1-ND	0.96399	1	\$ 0.96
					Total:			84.12







## Design Rules Verification Report

Filename : D:\Josh9\Documents\Midnight Sun\hardware\MSXIV\_FrontPowerDistribution\Fr

Warnings 0  
Rule Violations 500

Warnings	
Total	0
Rule Violations	
Clearance Constraint (Gap=0.254mm) (All), (All)	0
Short-Circuit Constraint (Allowed=No) (All), (All)	0
Un-Routed Net Constraint ( All )	493
Modified Polygon (Allow modified: No), (Allow shelved: No)	0
Width Constraint (Min=0.254mm) (Max =0.254mm) (Preferred=0.254mm) (All)	0
Hole Size Constraint (Min=0.025mm) (Max =2.54mm) (All)	7
Hole To Hole Clearance (Gap=0.254mm) (All), (All)	0
Minimum Solder Mask Sliver (Gap=0.254mm) (All), (All)	0
Silk To Solder Mask (Clearance=0.254mm) (IsPad), (All)	0
Silk to Silk (Clearance=0.254mm) (All), (All)	0
Net Antennae (Tolerance=0mm) (All)	0
Height Constraint (Min=0mm) (Max =25.4mm) (Preferred=12.7mm) (All)	0
Total	500

Un-Routed Net Constraint ( (All) )
Un-Routed Net Constraint: Net VBAT Between Pad C 10-1(253.238mm,63.333mm) on Component Side And Pad C29-1(281.051mm,126.96mm) or
Un-Routed Net Constraint: Net VBAT Between Pad R1-1(201.028mm,27.559mm) on Component Side And Pad C 10-1(253.238mm,63.333mm) or
Un-Routed Net Constraint: Net VBAT Between Pad C 10-1(253.238mm,63.333mm) on Component Side And Pad R2-1(285.3mm,18.325mm) on Componen
Un-Routed Net Constraint: Net GND Between Pad C 10-2(253.238mm,64.683mm) on Component Side And Pad R19-2(274.574mm,64.656mm) or
Un-Routed Net Constraint: Net NetC1_1 Between Pad R48-1(122.398mm,37.206mm) on Component Side And Pad C 1-1(169.886mm,64.516mm) or
Un-Routed Net Constraint: Net VBAT Between Pad C 12-1(429.641mm,126.96mm) on Component Side And Pad C11-1(435.189mm,128.143mm) or
Un-Routed Net Constraint: Net VBAT Between Pad C 11-1(435.189mm,128.143mm) on Component Side And Pad C 46-1(471.17mm,108.164mm) or
Un-Routed Net Constraint: Net GND Between Pad C 12-2(429.641mm,128.31mm) on Component Side And Pad C 11-2(436.539mm,128.143mm) or
Un-Routed Net Constraint: Net GND Between Pad C 11-2(436.539mm,128.143mm) on Component Side And Pad R95-2(446.659mm,109.487mm) or
Un-Routed Net Constraint: Net GND Between Pad R21-2(171.2mm,70.075mm) on Component Side And Pad C 1-2(171.236mm,64.516mm) on Componen
Un-Routed Net Constraint: Net GND Between Pad C 1-2(171.236mm,64.516mm) on Component Side And Pad R33-2(188.214mm,64.656mm) or
Un-Routed Net Constraint: Net GND Between Pad R49-2(164.084mm,64.656mm) on Component Side And Pad C 1-2(171.236mm,64.516mm) or
Un-Routed Net Constraint: Net VBAT Between Pad C 32-1(379.984mm,44.537mm) on Component Side And Pad C 12-1(429.641mm,126.96mm) or
Un-Routed Net Constraint: Net Pedal_PWR Between Pad R24-1(20.134mm,109.833mm) on Component Side And Pad C 13-1(26.103mm,110.06mm) or
Un-Routed Net Constraint: Net GND Between Pad R24-2(20.134mm,111.383mm) on Component Side And Pad C 13-2(26.103mm,111.41mm) or
Un-Routed Net Constraint: Net GND Between Pad C 13-2(26.103mm,111.41mm) on Component Side And Pad R44-2(33.591mm,108.883mm) or
Un-Routed Net Constraint: Net Steering_PWR Between Pad R26-1(35.224mm,115.333mm) on Component Side And Pad C 14-1(41.193mm,115.56mm) or
Un-Routed Net Constraint: Net GND Between Pad R26-2(35.224mm,116.883mm) on Component Side And Pad C 14-2(41.193mm,116.91mm) or
Un-Routed Net Constraint: Net GND Between Pad C 15-2(274.975mm,42mm) on Component Side And Pad C 7-2(275.759mm,45.19mm) on Componen
Un-Routed Net Constraint: Net GND Between Pad U3-1(273.375mm,33.546mm) on Component Side And Pad C15-2(274.975mm,42mm) on Componen
Un-Routed Net Constraint: Net NetC16_1 Between Pad U12-1(75.625mm,35mm) on Component Side And Pad C 16-1(264.287mm,126.96mm) or
Un-Routed Net Constraint: Net GND Between Pad C 16-2(264.287mm,128.31mm) on Component Side And Pad R30-2(269.748mm,128.283mm) or
Un-Routed Net Constraint: Net GND Between Pad R32-2(258.318mm,128.283mm) on Component Side And Pad C 16-2(264.287mm,128.31mm) or
Un-Routed Net Constraint: Net NetC2_1 Between Pad U12-2(76.275mm,35mm) on Component Side And Pad C 2-1(340.701mm,128.143mm) or
Un-Routed Net Constraint: Net GND Between Pad C 8-2(162.316mm,57.616mm) on Component Side And Pad C 21-2(162.753mm,45.216mm) or
Un-Routed Net Constraint: Net GND Between Pad R46-2(155.601mm,45.554mm) on Component Side And Pad C 21-2(162.753mm,45.216mm) or
Un-Routed Net Constraint: Net GND Between Pad C 21-2(162.753mm,45.216mm) on Component Side And Pad R77-2(182.118mm,45.86mm) or
Un-Routed Net Constraint: Net GND Between Pad C 2-2(342.051mm,128.143mm) on Component Side And Pad R45-2(344.932mm,128.283mm) or
Un-Routed Net Constraint: Net GND Between Pad R52-2(334.772mm,128.283mm) on Component Side And Pad C 2-2(342.051mm,128.143mm) or
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Un-Routed Net Constraint: Net Horns_PWR Between Pad R44-1(33.591mm,107.333mm) on Component Side And Pad C 22-1(39.433mm,107.56mm) or
Un-Routed Net Constraint: Net GND Between Pad R44-2(33.591mm,108.883mm) on Component Side And Pad C 22-2(39.433mm,108.91mm) or
Un-Routed Net Constraint: Net NetC23_1 Between Pad C 23-1(249.428mm,19.529mm) on Component Side And Pad R8-1(278.4mm,20.175mm) or
Un-Routed Net Constraint: Net GND Between Pad C 23-2(249.428mm,25.429mm) on Component Side And Pad C 25-2(275.175mm,27mm) on Componen
Un-Routed Net Constraint: Net GND Between Pad C 26-2(217.805mm,27.418mm) on Component Side And Pad C 23-2(249.428mm,25.429mm) or
Un-Routed Net Constraint: Net NetC23_1 Between Pad C 25-1(273.425mm,27mm) on Component Side And Pad C 24-1(273.425mm,29.3mm) or
Un-Routed Net Constraint: Net NetC23_1 Between Pad U 3-3(273.375mm,31.646mm) on Component Side And Pad C 24-1(273.425mm,29.3mm) or
Un-Routed Net Constraint: Net GND Between Pad C 25-2(275.175mm,27mm) on Component Side And Pad C 24-2(275.175mm,29.3mm) on Componen
Un-Routed Net Constraint: Net GND Between Pad U3-1(273.375mm,33.546mm) on Component Side And Pad C 24-2(275.175mm,29.3mm) on Componen
Un-Routed Net Constraint: Net NetC23_1 Between Pad C 25-1(273.425mm,27mm) on Component Side And Pad R8-1(278.4mm,20.175mm) on Componen
Un-Routed Net Constraint: Net GND Between Pad C 25-2(275.175mm,27mm) on Component Side And Pad R10-2(277.6mm,28.1mm) on Component Side
Un-Routed Net Constraint: Net PB1/5V_MONITOR Between Pad P1-16(128.8mm,13.5mm) on Component Side And Pad C 26-1(217.805mm,25.668mm) or
Un-Routed Net Constraint: Net PB1/5V_MONITOR Between Pad C 26-1(217.805mm,25.668mm) on Component Side And Pad R7-2(281.625mm,26.1mm)
Un-Routed Net Constraint: Net GND Between Pad R12-2(211.963mm,27.572mm) on Component Side And Pad C 26-2(217.805mm,27.418mm) or
Un-Routed Net Constraint: Net VBAT Between Pad C 29-1(281.051mm,126.96mm) on Component Side And Pad C52-1(304.165mm,108.164mm) or
Un-Routed Net Constraint: Net GND Between Pad R31-2(275.59mm,128.283mm) on Component Side And Pad C 29-2(281.051mm,128.31mm) or
Un-Routed Net Constraint: Net GND Between Pad C 29-2(281.051mm,128.31mm) on Component Side And Pad R53-2(313.182mm,128.283mm) or
Un-Routed Net Constraint: Net Speaker_PWR Between Pad C 30-1(12.177mm,110.46mm) on Component Side And Pad P5-3(13mm,98mm) on Multi-Layer
Un-Routed Net Constraint: Net Speaker_PWR Between Pad R55-1(6.208mm,110.233mm) on Component Side And Pad C 30-1(12.177mm,110.46mm) or
Un-Routed Net Constraint: Net GND Between Pad C 30-2(12.177mm,111.81mm) on Component Side And Pad R24-2(20.134mm,111.383mm) or
Un-Routed Net Constraint: Net GND Between Pad R55-2(6.208mm,111.783mm) on Component Side And Pad C 30-2(12.177mm,111.81mm) on Componen
Un-Routed Net Constraint: Net VBAT Between Pad C 3-1(356.068mm,64.516mm) on Component Side And Pad C 32-1(379.984mm,44.537mm) or

Un-Routed Net Constraint ( (All) )
Un-Routed Net Constraint: Net VBAT Between Pad C52-1(304.165mm,108.164mm) on Component Side And Pad C3-1(356.068mm,64.516mm) or
Un-Routed Net Constraint: Net NetC31_1 Between Pad U12-4(77.575mm,35mm) on Component Side And Pad C31-1(187.666mm,128.143mm) or
Un-Routed Net Constraint: Net GND Between Pad C31-2(189.016mm,128.143mm) on Component Side And Pad R60-2(199.898mm,128.283mm) or
Un-Routed Net Constraint: Net GND Between Pad R61-2(182.372mm,128.283mm) on Component Side And Pad C31-2(189.016mm,128.143mm) or
Un-Routed Net Constraint: Net GND Between Pad C3-2(357.418mm,64.516mm) on Component Side And Pad C32-2(379.984mm,45.887mm) or
Un-Routed Net Constraint: Net GND Between Pad C5-2(346.242mm,64.516mm) on Component Side And Pad C3-2(357.418mm,64.516mm) on Componen
Un-Routed Net Constraint: Net GND Between Pad C33-2(100.184mm,120.287mm) on Component Side And Pad D7-1(103.7mm,107.9mm) on Componen
Un-Routed Net Constraint: Net GND Between Pad R63-2(94.215mm,120.26mm) on Component Side And Pad C33-2(100.184mm,120.287mm) or
Un-Routed Net Constraint: Net Rear_Display_PWR Between Pad P10-1(108.5mm,94.9mm) on Multi-Layer And Pad C34-1(113.9mm,94.825mm) or
Un-Routed Net Constraint: Net Rear_Display_PWR Between Pad C34-1(113.9mm,94.825mm) on Component Side And Pad R67-1(115.859mm,94.81mm)
Un-Routed Net Constraint: Net GND Between Pad P10-3(108.5mm,100.9mm) on Multi-Layer And Pad C34-2(113.9mm,96.175mm) on Component Side
Un-Routed Net Constraint: Net GND Between Pad C34-2(113.9mm,96.175mm) on Component Side And Pad R67-2(115.859mm,96.36mm) on Componen
Un-Routed Net Constraint: Net NetC35_1 Between Pad U12-13(78.225mm,40.8mm) on Component Side And Pad C35-1(280.189mm,44.537mm) or
Un-Routed Net Constraint: Net GND Between Pad C7-2(275.759mm,45.19mm) on Component Side And Pad C35-2(280.189mm,45.887mm) on Componen
Un-Routed Net Constraint: Net GND Between Pad C35-2(280.189mm,45.887mm) on Component Side And Pad R68-2(295.275mm,45.86mm) or
Un-Routed Net Constraint: Net GND Between Pad C35-2(280.189mm,45.887mm) on Component Side And Pad R71-2(283mm,50.775mm) on Componen
Un-Routed Net Constraint: Net Left_Display_PWR Between Pad C36-1(124.897mm,113.437mm) on Component Side And Pac
Un-Routed Net Constraint: Net Left_Display_PWR Between Pad C36-1(124.897mm,113.437mm) on Component Side And Pad P11-1(124.9mm,101mm) or
Un-Routed Net Constraint: Net Left_Display_PWR Between Pad R73-1(122.7mm,113.425mm) on Component Side And Pac
Un-Routed Net Constraint: Net GND Between Pad C36-2(124.897mm,114.787mm) on Component Side And Pad P11-3(124.9mm,95mm) on Multi-Layer
Un-Routed Net Constraint: Net GND Between Pad R73-2(122.7mm,114.975mm) on Component Side And Pad C36-2(124.897mm,114.787mm) or
Un-Routed Net Constraint: Net GND Between Pad C36-2(124.897mm,114.787mm) on Component Side And Pad R76-2(138.9mm,112.375mm) or
Un-Routed Net Constraint: Net Right_Display_PWR Between Pad C37-1(141.029mm,110.637mm) on Component Side And Pac
Un-Routed Net Constraint: Net Right_Display_PWR Between Pad R76-1(138.9mm,110.825mm) on Component Side And Pac
Un-Routed Net Constraint: Net GND Between Pad R76-2(138.9mm,112.375mm) on Component Side And Pad C37-2(141.029mm,111.987mm) or
Un-Routed Net Constraint: Net NetC38_1 Between Pad R79-1(150.876mm,96.81mm) on Component Side And Pad C38-1(152.1mm,91.425mm) or
Un-Routed Net Constraint: Net NetC38_1 Between Pad U12-14(78.875mm,40.8mm) on Component Side And Pad C38-1(152.1mm,91.425mm) or
Un-Routed Net Constraint: Net GND Between Pad D8-1(147.3mm,88.136mm) on Component Side And Pad C38-2(152.1mm,92.775mm) on Componen
Un-Routed Net Constraint: Net GND Between Pad R80-2(145.2mm,103.975mm) on Component Side And Pad C38-2(152.1mm,92.775mm) on Componen
Un-Routed Net Constraint: Net GND Between Pad C38-2(152.1mm,92.775mm) on Component Side And Pad R94-2(160.02mm,96.406mm) on Componen
Un-Routed Net Constraint: Net Main_PI_PWR Between Pad R82-1(305.308mm,94.856mm) on Component Side And Pad C39-1(311.15mm,95.083mm) or
Un-Routed Net Constraint: Net GND Between Pad R82-2(305.308mm,96.406mm) on Component Side And Pad C39-2(311.15mm,96.433mm) or
Un-Routed Net Constraint: Net Rear_PI_PWR Between Pad R83-1(278.13mm,94.856mm) on Component Side And Pad C40-1(283.972mm,95.083mm) or
Un-Routed Net Constraint: Net GND Between Pad C40-2(283.972mm,96.433mm) on Component Side And Pad R82-2(305.308mm,96.406mm) or
Un-Routed Net Constraint: Net GND Between Pad R83-2(278.13mm,96.406mm) on Component Side And Pad C40-2(283.972mm,96.433mm) or
Un-Routed Net Constraint: Net NetC4_1 Between Pad R3-2(275.225mm,35.5mm) on Component Side And Pad C4-1(275.375mm,37.9mm) on Componen
Un-Routed Net Constraint: Net NetC4_1 Between Pad R86-1(96.046mm,63.856mm) on Component Side And Pad C41-1(255.23mm,96.266mm) or
Un-Routed Net Constraint: Net GND Between Pad C41-2(256.58mm,96.266mm) on Component Side And Pad R84-2(272.288mm,96.406mm) or
Un-Routed Net Constraint: Net GND Between Pad R87-2(249.428mm,96.406mm) on Component Side And Pad C41-2(256.58mm,96.266mm) or
Un-Routed Net Constraint: Net NetC4_2 Between Pad U3-2(273.375mm,32.596mm) on Component Side And Pad C4-2(273.625mm,37.9mm) or
Un-Routed Net Constraint: Net Left_PI_PWR Between Pad R89-1(216.408mm,94.856mm) on Component Side And Pad C42-1(222.25mm,95.083mm) or
Un-Routed Net Constraint: Net GND Between Pad C42-2(222.25mm,96.433mm) on Component Side And Pad R101-2(229.997mm,109.487mm) or
Un-Routed Net Constraint: Net GND Between Pad R89-2(216.408mm,96.406mm) on Component Side And Pad C42-2(222.25mm,96.433mm) or
Un-Routed Net Constraint: Net Right_PI_PWR Between Pad R90-1(188.722mm,94.856mm) on Component Side And Pad C43-1(194.691mm,95.083mm)
Un-Routed Net Constraint: Net GND Between Pad C43-2(194.691mm,96.433mm) on Component Side And Pad R89-2(216.408mm,96.406mm) or
Un-Routed Net Constraint: Net GND Between Pad R90-2(188.722mm,96.406mm) on Component Side And Pad C43-2(194.691mm,96.433mm) or
Un-Routed Net Constraint: Net NetC44_1 Between Pad R93-1(121.2mm,59.025mm) on Component Side And Pad C44-1(165.989mm,95.083mm) or
Un-Routed Net Constraint: Net GND Between Pad C44-2(165.989mm,96.433mm) on Component Side And Pad R91-2(183.388mm,96.406mm) or
Un-Routed Net Constraint: Net GND Between Pad R94-2(160.02mm,96.406mm) on Component Side And Pad C44-2(165.989mm,96.433mm) or
Un-Routed Net Constraint: Net VBAT Between Pad C46-1(471.17mm,108.164mm) on Component Side And Pad C45-1(485.648mm,108.164mm) or
Un-Routed Net Constraint: Net GND Between Pad C46-2(471.17mm,109.514mm) on Component Side And Pad C45-2(485.648mm,109.514mm) or
Un-Routed Net Constraint: Net GND Between Pad R95-2(446.659mm,109.487mm) on Component Side And Pad C46-2(471.17mm,109.514mm) or

Un-Routed Net Constraint ( All )
Un-Routed Net Constraint: Net Spare_3_PWR Between Pad R96-1(71.101mm,110.137mm) on Component Side And Pad C47-1(74.3mm,110.125mm) or
Un-Routed Net Constraint: Net GND Between Pad C47-2(74.3mm,111.475mm) on Component Side And Pad C50-2(84.331mm,112.014mm) on Component Side
Un-Routed Net Constraint: Net GND Between Pad R96-2(71.101mm,111.687mm) on Component Side And Pad C47-2(74.3mm,111.475mm) on Component Side
Un-Routed Net Constraint: Net Spare_1_PWR Between Pad C48-1(61.36mm,67.364mm) on Component Side And Pad LED15-1(63.79mm,67.25mm) or
Un-Routed Net Constraint: Net Spare_1_PWR Between Pad R98-1(58.991mm,67.237mm) on Component Side And Pad C48-1(61.36mm,67.364mm) or
Un-Routed Net Constraint: Net Spare_1_PWR Between Pad U18-13(61.2mm,90.3mm) on Component Side [Unplated] And Pad C48-1(61.36mm,67.364mm) or
Un-Routed Net Constraint: Net GND Between Pad C48-2(61.36mm,68.714mm) on Component Side And Pad D11-1(63.764mm,74mm) on Component Side
Un-Routed Net Constraint: Net GND Between Pad R98-2(58.991mm,68.787mm) on Component Side And Pad C48-2(61.36mm,68.714mm) on Component Side
Un-Routed Net Constraint: Net PA1_SPARE_1_IS Between Pad R104-1(63.5mm,77.95mm) on Component Side And Pad C49-1(369.189mm,108.164mm) or
Un-Routed Net Constraint: Net GND Between Pad C49-2(369.189mm,109.514mm) on Component Side And Pad R105-2(394.843mm,109.487mm) or
Un-Routed Net Constraint: Net GND Between Pad R107-2(362.077mm,109.487mm) on Component Side And Pad C49-2(369.189mm,109.514mm) or
Un-Routed Net Constraint: Net Spare_4_PWR Between Pad LED17-1(82.19mm,110.55mm) on Component Side And Pad C50-1(84.331mm,110.664mm) or
Un-Routed Net Constraint: Net Spare_4_PWR Between Pad C50-1(84.331mm,110.664mm) on Component Side And Pad R106-1(86.7mm,110.225mm) or
Un-Routed Net Constraint: Net GND Between Pad C50-2(84.331mm,112.014mm) on Component Side And Pad R106-2(86.7mm,111.775mm) or
Un-Routed Net Constraint: Net NetC5_1 Between Pad R17-1(137.138mm,60.406mm) on Component Side And Pad C5-1(344.892mm,64.516mm) or
Un-Routed Net Constraint: Net NetC51_1 Between Pad R110-1(74.5mm,75.4mm) on Component Side And Pad C51-1(330.541mm,109.347mm) or
Un-Routed Net Constraint: Net GND Between Pad C51-2(331.891mm,109.347mm) on Component Side And Pad R108-2(349.885mm,109.487mm) or
Un-Routed Net Constraint: Net GND Between Pad R111-2(324.231mm,109.487mm) on Component Side And Pad C51-2(331.891mm,109.347mm) or
Un-Routed Net Constraint: Net GND Between Pad R20-2(317.246mm,64.656mm) on Component Side And Pad C5-2(346.242mm,64.516mm) or
Un-Routed Net Constraint: Net GND Between Pad C52-2(304.165mm,109.514mm) on Component Side And Pad R111-2(324.231mm,109.487mm) or
Un-Routed Net Constraint: Net GND Between Pad R112-2(297.307mm,109.487mm) on Component Side And Pad C52-2(304.165mm,109.514mm) or
Un-Routed Net Constraint: Net GND Between Pad C52-2(304.165mm,109.514mm) on Component Side And Pad R82-2(305.308mm,96.406mm) or
Un-Routed Net Constraint: Net Spare_2_PWR Between Pad C53-1(42.836mm,85.307mm) on Component Side And Pad LED18-1(43.3mm,87.5mm) or
Un-Routed Net Constraint: Net Spare_2_PWR Between Pad R114-1(42.275mm,82.5mm) on Component Side And Pad C53-1(42.836mm,85.307mm) or
Un-Routed Net Constraint: Net GND Between Pad R114-2(40.725mm,82.5mm) on Component Side And Pad C53-2(41.486mm,85.307mm) on Component Side
Un-Routed Net Constraint: Net PA2_SPARE_2_IS Between Pad P1-23(128.8mm,10mm) on Component Side And Pad C54-1(186.817mm,108.164mm) or
Un-Routed Net Constraint: Net GND Between Pad C54-2(186.817mm,109.514mm) on Component Side And Pad R118-2(199.517mm,109.487mm) or
Un-Routed Net Constraint: Net GND Between Pad R119-2(179.959mm,109.487mm) on Component Side And Pad C54-2(186.817mm,109.514mm) or
Un-Routed Net Constraint: Net GND Between Pad C54-2(186.817mm,109.514mm) on Component Side And Pad R90-2(188.722mm,96.406mm) or
Un-Routed Net Constraint: Net GND Between Pad C6-2(162.224mm,75.716mm) on Component Side And Pad R49-2(164.084mm,64.656mm) or
Un-Routed Net Constraint: Net GND Between Pad R5-2(158.133mm,75.843mm) on Component Side And Pad C6-2(162.224mm,75.716mm) on Component Side
Un-Routed Net Constraint: Net GND Between Pad C9-2(266.1mm,50.1mm) on Component Side And Pad C7-2(275.759mm,45.19mm) on Component Side
Un-Routed Net Constraint: Net GND Between Pad C8-2(162.316mm,57.616mm) on Component Side And Pad R49-2(164.084mm,64.656mm) or
Un-Routed Net Constraint: Net GND Between Pad R9-2(158.225mm,57.743mm) on Component Side And Pad C8-2(162.316mm,57.616mm) on Component Side
Un-Routed Net Constraint: Net GND Between Pad D10-1(125.264mm,55.8mm) on Component Side And Pad D2-1(132.5mm,56.3mm) on Component Side
Un-Routed Net Constraint: Net GND Between Pad D5-1(121.628mm,42.844mm) on Component Side And Pad D10-1(125.264mm,55.8mm) on Component Side
Un-Routed Net Constraint: Net NetD10_2 Between Pad D10-2(121.2mm,55.8mm) on Component Side And Pad R93-2(121.2mm,60.575mm) or
Un-Routed Net Constraint: Net GND Between Pad D1-1(12.036mm,69.5mm) on Component Side And Pad D3-1(24.82mm,64.871mm) on Component Side
Un-Routed Net Constraint: Net GND Between Pad D1-1(12.036mm,69.5mm) on Component Side And Pad P3-8(12.24mm,40.269mm) on Multi-Layer
Un-Routed Net Constraint: Net GND Between Pad D11-1(63.764mm,74mm) on Component Side And Pad D12-1(75.464mm,70.9mm) on Component Side
Un-Routed Net Constraint: Net NetD11_2 Between Pad D11-2(59.7mm,74mm) on Component Side And Pad R103-1(60.555mm,77.837mm) on Component Side
Un-Routed Net Constraint: Net NetD1_2 Between Pad D1-2(16.1mm,69.5mm) on Component Side And Pad R59-2(16.1mm,72.825mm) on Component Side
Un-Routed Net Constraint: Net GND Between Pad D12-1(75.464mm,70.9mm) on Component Side And Pad P13-2(83.7mm,79.1mm) on Multi-Layer
Un-Routed Net Constraint: Net NetD12_2 Between Pad D12-2(71.4mm,70.9mm) on Component Side And Pad R109-1(71.615mm,75.437mm) or
Un-Routed Net Constraint: Net GND Between Pad D3-1(24.82mm,64.871mm) on Component Side And Pad D13-1(48.4mm,70.8mm) on Component Side
Un-Routed Net Constraint: Net GND Between Pad D13-1(48.4mm,70.8mm) on Component Side And Pad D6-1(49.336mm,58.9mm) on Component Side
Un-Routed Net Constraint: Net GND Between Pad R114-2(40.725mm,82.5mm) on Component Side And Pad D13-1(48.4mm,70.8mm) on Component Side
Un-Routed Net Constraint: Net GND Between Pad D13-1(48.4mm,70.8mm) on Component Side And Pad R98-2(58.991mm,68.787mm) on Component Side
Un-Routed Net Constraint: Net NetD13_2 Between Pad D13-2(48.4mm,74.864mm) on Component Side And Pad R116-1(50.5mm,78.325mm) or
Un-Routed Net Constraint: Net GND Between Pad D2-1(132.5mm,56.3mm) on Component Side And Pad P9-3(149mm,60mm) on Multi-Layer
Un-Routed Net Constraint: Net NetD2_2 Between Pad D2-2(136.564mm,56.3mm) on Component Side And Pad R17-2(137.138mm,61.956mm) or
Un-Routed Net Constraint: Net NetD3_2 Between Pad D3-2(24.82mm,68.935mm) on Component Side And Pad R28-1(25.2mm,74.8mm) on Component Side

Un-Routed Net Constraint ( All )
Un-Routed Net Constraint: Net GND Between Pad D5-1(121.628mm,42.844mm) on Component Side And Pad P1-1(128.8mm,21mm) on Component Side
Un-Routed Net Constraint: Net GND Between Pad U11-9(112.38mm,40.8mm) on Component Side And Pad D5-1(121.628mm,42.844mm) on Component Side
Un-Routed Net Constraint: Net NetD5_2 Between Pad D5-2(121.628mm,46.908mm) on Component Side And Pad R48-2(122.398mm,38.756mm) or
Un-Routed Net Constraint: Net NetD6_2 Between Pad D6-2(53.4mm,58.9mm) on Component Side And Pad R51-2(53.416mm,54.583mm) on Component Side
Un-Routed Net Constraint: Net GND Between Pad D7-1(103.7mm,107.9mm) on Component Side And Pad P10-3(108.5mm,100.9mm) on Multi-Layer
Un-Routed Net Constraint: Net NetD7_2 Between Pad R69-1(97.891mm,111.51mm) on Component Side And Pad D7-2(99.636mm,107.9mm) or
Un-Routed Net Constraint: Net GND Between Pad D8-1(147.3mm,88.136mm) on Component Side And Pad P8-4(149mm,79mm) on Multi-Layer
Un-Routed Net Constraint: Net NetD8_2 Between Pad R78-1(145.034mm,96.81mm) on Component Side And Pad D8-2(147.3mm,92.2mm) on Component Side
Un-Routed Net Constraint: Net GND Between Pad P14-2(95.2mm,75mm) on Multi-Layer And Pad D9-1(99.2mm,62.036mm) on Component Side
Un-Routed Net Constraint: Net NetD9_2 Between Pad R86-2(96.046mm,65.406mm) on Component Side And Pad D9-2(99.2mm,66.1mm) on Component Side
Un-Routed Net Constraint: Net NetC4_2 Between Pad L1-1(266.8mm,33.2mm) on Component Side And Pad U3-2(273.375mm,32.596mm) on Component Side
Un-Routed Net Constraint: Net Rear_Display_PWR Between Pad R67-1(115.859mm,94.81mm) on Component Side And Pad P1-1(128.8mm,21mm) on Component Side
Un-Routed Net Constraint: Net NetLED10_2 Between Pad LED10-2(118.29mm,96.45mm) on Component Side And Pad R66-1(318.643mm,44.31mm) or
Un-Routed Net Constraint: Net NetLED1_1 Between Pad LED1-1(188.204mm,25.985mm) on Component Side And Pad R1-2(202.578mm,27.559mm) or
Un-Routed Net Constraint: Net GND Between Pad LED1-2(188.204mm,27.485mm) on Component Side And Pad TP8-1(195.326mm,27.458mm) or
Un-Routed Net Constraint: Net NetLED13_2 Between Pad LED13-2(126.79mm,115.15mm) on Component Side And Pad R74-1(199.644mm,44.31mm) or
Un-Routed Net Constraint: Net NetLED14_2 Between Pad LED14-2(143.2mm,112mm) on Component Side And Pad R75-1(205.486mm,44.31mm) or
Un-Routed Net Constraint: Net NetLED15_2 Between Pad LED15-2(63.79mm,68.75mm) on Component Side And Pad R95-1(446.659mm,107.937mm) or
Un-Routed Net Constraint: Net Spare_3_PWR Between Pad LED16-1(67.69mm,109.95mm) on Component Side And Pad R96-1(71.101mm,110.137mm) or
Un-Routed Net Constraint: Net NetLED16_2 Between Pad LED16-2(67.69mm,111.45mm) on Component Side And Pad R101-1(229.997mm,107.937mm) or
Un-Routed Net Constraint: Net Spare_4_PWR Between Pad LED17-1(82.19mm,110.55mm) on Component Side And Pad P20-1(82.9mm,97.9mm) or
Un-Routed Net Constraint: Net NetLED17_2 Between Pad LED17-2(82.19mm,112.05mm) on Component Side And Pad R102-1(236.601mm,107.937mm) or
Un-Routed Net Constraint: Net Spare_2_PWR Between Pad LED18-1(43.3mm,87.5mm) on Component Side And Pad U19-14(47mm,89.4mm) or
Un-Routed Net Constraint: Net NetLED18_2 Between Pad LED18-2(41.8mm,87.5mm) on Component Side And Pad R112-1(297.307mm,107.937mm) or
Un-Routed Net Constraint: Net Speaker_PWR Between Pad LED2-1(4.29mm,90.55mm) on Component Side And Pad U7-14(9.05mm,88.75mm) or
Un-Routed Net Constraint: Net NetLED2_2 Between Pad LED2-2(4.29mm,92.05mm) on Component Side And Pad R57-1(217.424mm,126.733mm) or
Un-Routed Net Constraint: Net NetLED3_2 Between Pad LED3-2(96.221mm,125.173mm) on Component Side And Pad R65-1(312.801mm,44.31mm) or
Un-Routed Net Constraint: Net NetLED4_2 Between Pad LED4-2(159.216mm,79.769mm) on Component Side And Pad R15-1(296.926mm,63.106mm) or
Un-Routed Net Constraint: Net NetLED5_2 Between Pad LED5-2(159.05mm,62.769mm) on Component Side And Pad R18-1(280.162mm,63.106mm) or
Un-Routed Net Constraint: Net NetLED6_2 Between Pad LED6-2(158.026mm,50.269mm) on Component Side And Pad R21-1(171.2mm,68.525mm) or
Un-Routed Net Constraint: Net NetLED7_2 Between Pad LED7-2(45.011mm,108.796mm) on Component Side And Pad R25-1(361.95mm,126.733mm) or
Un-Routed Net Constraint: Net Steering_PWR Between Pad P5-1(19mm,98mm) on Multi-Layer And Pad LED8-1(32.8mm,116.4mm) on Component Side
Un-Routed Net Constraint: Net Steering_PWR Between Pad LED8-1(32.8mm,116.4mm) on Component Side And Pad R26-1(35.224mm,115.333mm) or
Un-Routed Net Constraint: Net NetLED8_2 Between Pad LED8-2(32.8mm,117.9mm) on Component Side And Pad R30-1(269.748mm,126.733mm) or
Un-Routed Net Constraint: Net Pedal_PWR Between Pad P5-2(16mm,98mm) on Multi-Layer And Pad LED9-1(18.4mm,91.5mm) on Component Side
Un-Routed Net Constraint: Net Pedal_PWR Between Pad LED9-1(18.4mm,91.5mm) on Component Side And Pad U6-14(21.5mm,91.6mm) on Component Side
Un-Routed Net Constraint: Net NetLED9_2 Between Pad LED9-2(18.4mm,90mm) on Component Side And Pad R31-1(275.59mm,126.733mm) or
Un-Routed Net Constraint: Net Rear_Display_PWR Between Pad U9-8(102.95mm,93.4mm) on Component Side [Unplated] And Pad P1-1(128.8mm,21mm) on Component Side
Un-Routed Net Constraint: Net GND Between Pad P1-2(128.8mm,20.5mm) on Component Side And Pad P1-1(128.8mm,21mm) on Component Side
Un-Routed Net Constraint: Net PB13_IO_2_INT Between Pad U13-8(94.68mm,41.5mm) on Component Side And Pad P1-10(128.8mm,16.5mm) or
Un-Routed Net Constraint: Net Left_Display_PWR Between Pad P11-1(124.9mm,101mm) on Multi-Layer And Pad U10-14(130.2mm,93.3mm) or
Un-Routed Net Constraint: Net PB12_IO_3_INT Between Pad U14-8(70.48mm,40.9mm) on Component Side And Pad P1-11(128.8mm,16mm) or
Un-Routed Net Constraint: Net GND Between Pad P16-1(122.1mm,78.8mm) on Multi-Layer And Pad P11-3(124.9mm,95mm) on Multi-Layer
Un-Routed Net Constraint: Net GND Between Pad R67-2(115.859mm,96.36mm) on Component Side And Pad P11-3(124.9mm,95mm) on Multi-Layer
Un-Routed Net Constraint: Net IO_EX_I2C_SDA Between Pad P1-13(128.8mm,15mm) on Component Side And Pad TP1-TP(154.305mm,27.686mm) or
Un-Routed Net Constraint: Net IO_EX_I2C_SDA Between Pad U11-1(102.22mm,40.8mm) on Component Side And Pad P1-13(128.8mm,15mm) or
Un-Routed Net Constraint: Net IO_EX_I2C_SCL Between Pad P1-14(128.8mm,14.5mm) on Component Side And Pad TP2-TP(159.639mm,27.686mm) or
Un-Routed Net Constraint: Net IO_EX_I2C_SCL Between Pad U11-2(103.49mm,40.8mm) on Component Side And Pad P1-14(128.8mm,14.5mm) or
Un-Routed Net Constraint: Net PB2_5V_EN Between Pad P1-15(128.8mm,14mm) on Component Side And Pad R12-1(211.963mm,26.022mm) or
Un-Routed Net Constraint: Net PA7_MUX_OUTPUT Between Pad U12-3(76.925mm,35mm) on Component Side And Pad P1-18(128.8mm,12.5mm) or
Un-Routed Net Constraint: Net PA6_MUX_SEL1 Between Pad U12-11(76.925mm,40.8mm) on Component Side And Pad P1-19(128.8mm,12mm) or
Un-Routed Net Constraint: Net GND Between Pad P1-3(128.8mm,20mm) on Component Side And Pad P1-2(128.8mm,20.5mm) on Component Side

Un-Routed Net Constraint ( (All) )
Un-Routed Net Constraint: Net PA5_MUX_SEL2 Between Pad U12-10(76.275mm,40.8mm) on Component Side And Pad P1-20(128.8mm,11.5mm) or
Un-Routed Net Constraint: Net PA4_MUX_SEL3 Between Pad U12-9(75.625mm,40.8mm) on Component Side And Pad P1-21(128.8mm,11mm) or
Un-Routed Net Constraint: Net Right_Display_PWR Between Pad R76-1(138.9mm,110.825mm) on Component Side And Pad P12-1(139.1mm,94.6mm) or
Un-Routed Net Constraint: Net Right_Display_PWR Between Pad U10-8(134.1mm,93.3mm) on Component Side [Unplated] And Pad P12-1(139.1mm,94.6mm) or
Un-Routed Net Constraint: Net PA3_MUX_EN Between Pad U12-6(78.875mm,35mm) on Component Side And Pad P1-22(128.8mm,10.5mm) or
Un-Routed Net Constraint: Net PA2_SPARE_2_IS Between Pad R117-1(46.5mm,78.425mm) on Component Side And Pad P1-23(128.8mm,10mm) or
Un-Routed Net Constraint: Net GND Between Pad R76-2(138.9mm,112.375mm) on Component Side And Pad P12-3(139.1mm,100.6mm) on Multi-Layer
Un-Routed Net Constraint: Net GND Between Pad P12-3(139.1mm,100.6mm) on Multi-Layer And Pad R80-2(145.2mm,103.975mm) on Component Side
Un-Routed Net Constraint: Net PA1_SPARE_1_IS Between Pad R104-1(63.5mm,77.95mm) on Component Side And Pad P1-24(128.8mm,9.5mm) or
Un-Routed Net Constraint: Net GND Between Pad P1-26(125.2mm,9mm) on Component Side And Pad P1-27(125.2mm,9.5mm) on Component Side
Un-Routed Net Constraint: Net GND Between Pad P1-27(125.2mm,9.5mm) on Component Side And Pad P1-28(125.2mm,10mm) on Component Side
Un-Routed Net Constraint: Net GND Between Pad P1-28(125.2mm,10mm) on Component Side And Pad P1-29(125.2mm,10.5mm) on Component Side
Un-Routed Net Constraint: Net GND Between Pad P1-29(125.2mm,10.5mm) on Component Side And Pad P1-4(128.8mm,19.5mm) on Component Side
Un-Routed Net Constraint: Net GND Between Pad P1-4(128.8mm,19.5mm) on Component Side And Pad P1-3(128.8mm,20mm) on Component Side
Un-Routed Net Constraint: Net Main_PI_PWR Between Pad P13-1(83.7mm,75.6mm) on Multi-Layer And Pad R82-1(305.308mm,94.856mm) or
Un-Routed Net Constraint: Net Main_PI_PWR Between Pad P13-1(83.7mm,75.6mm) on Multi-Layer And Pad U15-14(86.85mm,67.55mm) on Component Side
Un-Routed Net Constraint: Net GND Between Pad P13-2(83.7mm,79.1mm) on Multi-Layer And Pad P14-2(95.2mm,75mm) on Multi-Layer
Un-Routed Net Constraint: Net Rear_PI_PWR Between Pad P14-1(95.2mm,78.5mm) on Multi-Layer And Pad R83-1(278.13mm,94.856mm) on Component Side
Un-Routed Net Constraint: Net Rear_PI_PWR Between Pad U15-8(90.75mm,67.55mm) on Component Side [Unplated] And Pad P14-1(95.2mm,78.5mm)
Un-Routed Net Constraint: Net GND Between Pad P14-2(95.2mm,75mm) on Multi-Layer And Pad P15-2(108.1mm,78.9mm) on Multi-Layer
Un-Routed Net Constraint: Net VBAT Between Pad P1-47(125.2mm,19.5mm) on Component Side And Pad P1-48(125.2mm,20mm) on Component Side
Un-Routed Net Constraint: Net VBAT Between Pad P1-48(125.2mm,20mm) on Component Side And Pad P1-49(125.2mm,20.5mm) on Component Side
Un-Routed Net Constraint: Net VBAT Between Pad P1-49(125.2mm,20.5mm) on Component Side And Pad P1-50(125.2mm,21mm) on Component Side
Un-Routed Net Constraint: Net VBAT Between Pad P1-50(125.2mm,21mm) on Component Side And Pad U4-15(134.7mm,44.3mm) on Component Side
Un-Routed Net Constraint: Net Left_PI_PWR Between Pad P15-1(108.1mm,75.4mm) on Multi-Layer And Pad R89-1(216.408mm,94.856mm) or
Un-Routed Net Constraint: Net Left_PI_PWR Between Pad P15-1(108.1mm,75.4mm) on Multi-Layer And Pad U16-14(113.2mm,67.2mm) on Component Side
Un-Routed Net Constraint: Net GND Between Pad P15-2(108.1mm,78.9mm) on Multi-Layer And Pad P16-1(122.1mm,78.8mm) on Multi-Layer
Un-Routed Net Constraint: Net PA9_SPARE_2_EN Between Pad P1-6(128.8mm,18.5mm) on Component Side And Pad R115-1(243.713mm,107.937mm)
Un-Routed Net Constraint: Net Right_PI_PWR Between Pad P16-2(122.1mm,75.3mm) on Multi-Layer And Pad R90-1(188.722mm,94.856mm) or
Un-Routed Net Constraint: Net Right_PI_PWR Between Pad U16-8(117.1mm,67.2mm) on Component Side [Unplated] And Pad P16-2(122.1mm,75.3mm)
Un-Routed Net Constraint: Net PA8_SPARE_1_EN Between Pad P1-7(128.8mm,18mm) on Component Side And Pad R100-1(416.179mm,107.937mm) or
Un-Routed Net Constraint: Net Spare_1_PWR Between Pad P17-1(59.9mm,97.9mm) on Multi-Layer And Pad U18-14(60.55mm,90.3mm) on Component Side
Un-Routed Net Constraint: Net GND Between Pad P18-2(48.4mm,100.9mm) on Multi-Layer And Pad P17-2(59.9mm,100.9mm) on Multi-Layer
Un-Routed Net Constraint: Net GND Between Pad P17-2(59.9mm,100.9mm) on Multi-Layer And Pad P19-2(71.4mm,100.9mm) on Multi-Layer
Un-Routed Net Constraint: Net Spare_2_PWR Between Pad U19-12(48.3mm,89.4mm) on Component Side [Unplated] And Pad P18-1(48.4mm,97.9mm) or
Un-Routed Net Constraint: Net GND Between Pad P6-3(36.3mm,100.9mm) on Multi-Layer And Pad P18-2(48.4mm,100.9mm) on Multi-Layer
Un-Routed Net Constraint: Net PB14_IO_1_INT Between Pad U11-8(111.11mm,40.8mm) on Component Side And Pad P1-9(128.8mm,17mm) or
Un-Routed Net Constraint: Net Spare_3_PWR Between Pad R96-1(71.101mm,110.137mm) on Component Side And Pad P19-1(71.4mm,97.9mm) or
Un-Routed Net Constraint: Net Spare_3_PWR Between Pad P19-1(71.4mm,97.9mm) on Multi-Layer And Pad U17-14(72.65mm,90.55mm) on Component Side
Un-Routed Net Constraint: Net GND Between Pad P19-2(71.4mm,100.9mm) on Multi-Layer And Pad P20-2(82.9mm,100.9mm) on Multi-Layer
Un-Routed Net Constraint: Net GND Between Pad R96-2(71.101mm,111.687mm) on Component Side And Pad P19-2(71.4mm,100.9mm) on Multi-Layer
Un-Routed Net Constraint: Net Spare_4_PWR Between Pad U17-8(76.55mm,90.55mm) on Component Side [Unplated] And Pad P20-1(82.9mm,97.9mm)
Un-Routed Net Constraint: Net GND Between Pad P20-2(82.9mm,100.9mm) on Multi-Layer And Pad P7-3(94.6mm,95.2mm) on Multi-Layer
Un-Routed Net Constraint: Net GND Between Pad P2-4(149mm,41mm) on Multi-Layer And Pad P2-5(149mm,44mm) on Multi-Layer
Un-Routed Net Constraint: Net GND Between Pad P2-5(149mm,44mm) on Multi-Layer And Pad P2-6(149mm,47mm) on Multi-Layer
Un-Routed Net Constraint: Net GND Between Pad P2-6(149mm,47mm) on Multi-Layer And Pad R46-2(155.601mm,45.554mm) on Component Side
Un-Routed Net Constraint: Net VBAT Between Pad P3-2(15.24mm,37.369mm) on Multi-Layer And Pad P3-1(15.24mm,40.369mm) on Multi-Layer
Un-Routed Net Constraint: Net VBAT Between Pad U7-15(11mm,85.9mm) on Component Side [Unplated] And Pad P3-1(15.24mm,40.369mm) or
Un-Routed Net Constraint: Net GND Between Pad P3-11(12.24mm,31.369mm) on Multi-Layer And Pad P3-10(12.24mm,34.369mm) on Multi-Layer
Un-Routed Net Constraint: Net GND Between Pad P3-10(12.24mm,34.369mm) on Multi-Layer And Pad P3-9(12.24mm,37.269mm) on Multi-Layer
Un-Routed Net Constraint: Net GND Between Pad P3-12(12.24mm,28.369mm) on Multi-Layer And Pad P3-11(12.24mm,31.369mm) on Multi-Layer
Un-Routed Net Constraint: Net GND Between Pad P3-13(12.24mm,25.369mm) on Multi-Layer And Pad P3-12(12.24mm,28.369mm) on Multi-Layer

Un-Routed Net Constraint ( All )
Un-Routed Net Constraint: Net GND Between Pad P3-14(12.24mm,22.369mm) on Multi-Layer And Pad P3-13(12.24mm,25.369mm) on Multi-Layer
Un-Routed Net Constraint: Net VBAT Between Pad P3-3(15.24mm,34.369mm) on Multi-Layer And Pad P3-2(15.24mm,37.369mm) on Multi-Layer
Un-Routed Net Constraint: Net VBAT Between Pad P3-4(15.24mm,31.369mm) on Multi-Layer And Pad P3-3(15.24mm,34.369mm) on Multi-Layer
Un-Routed Net Constraint: Net VBAT Between Pad P3-5(15.24mm,28.369mm) on Multi-Layer And Pad P3-4(15.24mm,31.369mm) on Multi-Layer
Un-Routed Net Constraint: Net VBAT Between Pad P3-6(15.24mm,25.369mm) on Multi-Layer And Pad P3-5(15.24mm,28.369mm) on Multi-Layer
Un-Routed Net Constraint: Net VBAT Between Pad P3-7(15.24mm,22.369mm) on Multi-Layer And Pad P3-6(15.24mm,25.369mm) on Multi-Layer
Un-Routed Net Constraint: Net GND Between Pad P3-9(12.24mm,37.269mm) on Multi-Layer And Pad P3-8(12.24mm,40.269mm) on Multi-Layer
Un-Routed Net Constraint: Net Steering_PWR Between Pad P5-1(19mm,98mm) on Multi-Layer And Pad U6-10(24.1mm,91.6mm) on Component Side
Un-Routed Net Constraint: Net Pedal_PWR Between Pad P5-2(16mm,98mm) on Multi-Layer And Pad R24-1(20.134mm,109.833mm) on Component Side
Un-Routed Net Constraint: Net Speaker_PWR Between Pad U7-12(10.35mm,88.75mm) on Component Side [Unplated] And Pad P5-3(13mm,98mm) or
Un-Routed Net Constraint: Net GND Between Pad P5-5(16mm,101mm) on Multi-Layer And Pad P5-4(19mm,101mm) on Multi-Layer
Un-Routed Net Constraint: Net GND Between Pad P5-4(19mm,101mm) on Multi-Layer And Pad R24-2(20.134mm,111.383mm) on Component Side
Un-Routed Net Constraint: Net GND Between Pad P5-6(13mm,101mm) on Multi-Layer And Pad P5-5(16mm,101mm) on Multi-Layer
Un-Routed Net Constraint: Net Horns_PWR Between Pad P6-2(33.3mm,97.9mm) on Multi-Layer And Pad P6-1(36.3mm,97.9mm) on Multi-Layer
Un-Routed Net Constraint: Net Horns_PWR Between Pad U1-9(36.25mm,91.4mm) on Component Side [Unplated] And Pad P6-1(36.3mm,97.9mm) or
Un-Routed Net Constraint: Net Horns_PWR Between Pad P6-2(33.3mm,97.9mm) on Multi-Layer And Pad R44-1(33.591mm,107.333mm) on Component Side
Un-Routed Net Constraint: Net GND Between Pad P6-4(33.3mm,100.9mm) on Multi-Layer And Pad P6-3(36.3mm,100.9mm) on Multi-Layer
Un-Routed Net Constraint: Net GND Between Pad P6-4(33.3mm,100.9mm) on Multi-Layer And Pad R44-2(33.591mm,108.883mm) on Component Side
Un-Routed Net Constraint: Net GND Between Pad P8-3(149mm,76mm) on Multi-Layer And Pad P8-4(149mm,79mm) on Multi-Layer
Un-Routed Net Constraint: Net GND Between Pad P8-3(149mm,76mm) on Multi-Layer And Pad R5-2(158.133mm,75.843mm) on Component Side
Un-Routed Net Constraint: Net GND Between Pad P9-3(149mm,60mm) on Multi-Layer And Pad P9-4(149mm,63mm) on Multi-Layer
Un-Routed Net Constraint: Net GND Between Pad P9-3(149mm,60mm) on Multi-Layer And Pad R9-2(158.225mm,57.743mm) on Component Side
Un-Routed Net Constraint: Net NetR100_2 Between Pad U18-2(61.2mm,84.6mm) on Component Side [Unplated] And Pac
Un-Routed Net Constraint: Net NetR6_2 Between Pad R10-1(277.6mm,29.65mm) on Component Side And Pad R6-2(278.2mm,32.025mm) on Component Side
Un-Routed Net Constraint: Net GND Between Pad R101-2(229.997mm,109.487mm) on Component Side And Pad R102-2(236.601mm,109.487mm) or
Un-Routed Net Constraint: Net GND Between Pad R10-2(277.6mm,28.1mm) on Component Side And Pad R11-2(284.25mm,28.7mm) on Component Side
Un-Routed Net Constraint: Net GND Between Pad R102-2(236.601mm,109.487mm) on Component Side And Pad R87-2(249.428mm,96.406mm) or
Un-Routed Net Constraint: Net NetD11_2 Between Pad R103-1(60.555mm,77.837mm) on Component Side And Pad R104-2(63.5mm,79.5mm) or
Un-Routed Net Constraint: Net NetR103_2 Between Pad R103-2(60.555mm,79.387mm) on Component Side And Pad U18-4(62.5mm,84.6mm) or
Un-Routed Net Constraint: Net NetR105_1 Between Pad U18-1(60.55mm,84.6mm) on Component Side [Unplated] And Pac
Un-Routed Net Constraint: Net GND Between Pad R105-2(394.843mm,109.487mm) on Component Side And Pad R95-2(446.659mm,109.487mm) or
Un-Routed Net Constraint: Net GND Between Pad R106-2(86.7mm,111.775mm) on Component Side And Pad R63-2(94.215mm,120.26mm) on Component Side
Un-Routed Net Constraint: Net NetR103_2 Between Pad U18-4(62.5mm,84.6mm) on Component Side [Unplated] And Pac
Un-Routed Net Constraint: Net GND Between Pad R108-2(349.885mm,109.487mm) on Component Side And Pad R107-2(362.077mm,109.487mm) or
Un-Routed Net Constraint: Net GND Between Pad R25-2(361.95mm,128.283mm) on Component Side And Pad R107-2(362.077mm,109.487mm) or
Un-Routed Net Constraint: Net NetR108_1 Between Pad U17-1(72.65mm,84.85mm) on Component Side [Unplated] And Pac
Un-Routed Net Constraint: Net NetD12_2 Between Pad R109-1(71.615mm,75.437mm) on Component Side And Pad R110-2(74.5mm,76.95mm) or
Un-Routed Net Constraint: Net NetR109_2 Between Pad R109-2(71.615mm,76.987mm) on Component Side And Pad U17-4(74.6mm,84.85mm) or
Un-Routed Net Constraint: Net VBAT Between Pad U4-15(134.7mm,44.3mm) on Component Side [Unplated] And Pad R1-1(201.028mm,27.559mm) or
Un-Routed Net Constraint: Net NetC51_1 Between Pad R110-1(74.5mm,75.4mm) on Component Side And Pad U12-5(78.225mm,35mm) on Component Side
Un-Routed Net Constraint: Net PB1/5V_MONITOR Between Pad R7-2(281.625mm,26.1mm) on Component Side And Pad R11-1(282.7mm,28.7mm) or
Un-Routed Net Constraint: Net NetR109_2 Between Pad U17-4(74.6mm,84.85mm) on Component Side [Unplated] And Pac
Un-Routed Net Constraint: Net NetR113_2 Between Pad U19-3(48.3mm,83.7mm) on Component Side [Unplated] And Pac
Un-Routed Net Constraint: Net NetR115_2 Between Pad U19-2(47.65mm,83.7mm) on Component Side [Unplated] And Pac
Un-Routed Net Constraint: Net NetD13_2 Between Pad R117-2(46.5mm,79.975mm) on Component Side And Pad R116-1(50.5mm,78.325mm) or
Un-Routed Net Constraint: Net NetR116_2 Between Pad U19-4(48.95mm,83.7mm) on Component Side [Unplated] And Pad R116-2(50.5mm,79.875mm) or
Un-Routed Net Constraint: Net NetR118_1 Between Pad U19-1(47mm,83.7mm) on Component Side [Unplated] And Pad R118-1(199.517mm,107.937mm)
Un-Routed Net Constraint: Net GND Between Pad R118-2(199.517mm,109.487mm) on Component Side And Pad R60-2(199.898mm,128.283mm) or
Un-Routed Net Constraint: Net NetR116_2 Between Pad U19-4(48.95mm,83.7mm) on Component Side [Unplated] And Pac
Un-Routed Net Constraint: Net PB2_5V_EN Between Pad R12-1(211.963mm,26.022mm) on Component Side And Pad U3-5(275.625mm,32.596mm) or
Un-Routed Net Constraint: Net GND Between Pad TP8-1(195.326mm,27.458mm) on Component Side And Pad R12-2(211.963mm,27.572mm) or
Un-Routed Net Constraint: Net IO_EX_I2C_SCL Between Pad TP2-TP(159.639mm,27.686mm) on Component Side And Pac

Un-Routed Net Constraint ( All )
Un-Routed Net Constraint: Net IO_EX_I2C_SDA Between Pad TP1-TP(154.305mm,27.686mm) on Component Side And Pad TP1-TP(154.305mm,27.686mm) or
Un-Routed Net Constraint: Net GND Between Pad R18-2(280.162mm,64.656mm) on Component Side And Pad R15-2(296.926mm,64.656mm) or
Un-Routed Net Constraint: Net NetD2_2 Between Pad R16-1(131.55mm,60.406mm) on Component Side And Pad R17-2(137.138mm,61.956mm) or
Un-Routed Net Constraint: Net NetR16_2 Between Pad R16-2(131.55mm,61.956mm) on Component Side And Pad R19-1(274.574mm,63.106mm) or
Un-Routed Net Constraint: Net NetR16_2 Between Pad R16-2(131.55mm,61.956mm) on Component Side And Pad U2-4(132.1mm,68.95mm) or
Un-Routed Net Constraint: Net GND Between Pad R19-2(274.574mm,64.656mm) on Component Side And Pad R18-2(280.162mm,64.656mm) or
Un-Routed Net Constraint: Net GND Between Pad R18-2(280.162mm,64.656mm) on Component Side And Pad R71-2(283mm,50.775mm) on Component Side
Un-Routed Net Constraint: Net NetR20_1 Between Pad U2-1(132.1mm,70.9mm) on Component Side [Unplated] And Pad R20-1(317.246mm,63.106mm) or
Un-Routed Net Constraint: Net GND Between Pad R20-2(317.246mm,64.656mm) on Component Side And Pad R66-2(318.643mm,45.86mm) or
Un-Routed Net Constraint: Net NetC23_1 Between Pad R8-1(278.4mm,20.175mm) on Component Side And Pad R2-2(285.3mm,15.675mm) or
Un-Routed Net Constraint: Net NetR22_1 Between Pad U13-17(87.06mm,50.9mm) on Component Side And Pad R22-1(128.6mm,43.325mm) or
Un-Routed Net Constraint: Net NetR22_2 Between Pad R22-2(128.6mm,44.875mm) on Component Side And Pad U4-3(131.85mm,44.95mm) or
Un-Routed Net Constraint: Net NetR23_1 Between Pad R23-1(21.52mm,80.3mm) on Component Side And Pad U11-15(106.03mm,50.2mm) or
Un-Routed Net Constraint: Net NetR23_3 Between Pad R23-3(23.2mm,80.3mm) on Component Side And Pad U11-14(107.3mm,50.2mm) on Component Side
Un-Routed Net Constraint: Net NetR23_4 Between Pad R23-4(24.08mm,80.3mm) on Component Side And Pad U11-13(108.57mm,50.2mm) or
Un-Routed Net Constraint: Net NetR23_5 Between Pad R23-5(24.08mm,81.7mm) on Component Side And Pad U6-6(24.75mm,85.9mm) on Component Side
Un-Routed Net Constraint: Net NetR23_6 Between Pad R23-6(23.2mm,81.7mm) on Component Side And Pad U6-5(24.1mm,85.9mm) on Component Side
Un-Routed Net Constraint: Net NetR23_7 Between Pad R23-7(22.4mm,81.7mm) on Component Side And Pad U6-3(22.8mm,85.9mm) on Component Side
Un-Routed Net Constraint: Net NetR23_8 Between Pad R23-8(21.52mm,81.7mm) on Component Side And Pad U6-2(22.15mm,85.9mm) on Component Side
Un-Routed Net Constraint: Net GND Between Pad R45-2(344.932mm,128.283mm) on Component Side And Pad R25-2(361.95mm,128.283mm) or
Un-Routed Net Constraint: Net GND Between Pad R44-2(33.591mm,108.883mm) on Component Side And Pad R26-2(35.224mm,116.883mm) or
Un-Routed Net Constraint: Net NetR27_2 Between Pad U4-2(131.85mm,45.6mm) on Component Side [Unplated] And Pad R27-2(218.059mm,64.656mm)
Un-Routed Net Constraint: Net NetD3_2 Between Pad R28-1(25.2mm,74.8mm) on Component Side And Pad R29-2(27.708mm,76.283mm) on Component Side
Un-Routed Net Constraint: Net NetR28_2 Between Pad U6-4(23.45mm,85.9mm) on Component Side [Unplated] And Pad R28-2(25.2mm,76.35mm) or
Un-Routed Net Constraint: Net NetC16_1 Between Pad R29-1(27.708mm,74.733mm) on Component Side And Pad U12-1(75.625mm,35mm) or
Un-Routed Net Constraint: Net GND Between Pad R30-2(269.748mm,128.283mm) on Component Side And Pad R31-2(275.59mm,128.283mm) or
Un-Routed Net Constraint: Net NetR3_1 Between Pad U3-6(275.625mm,33.546mm) on Component Side And Pad R3-1(276.775mm,35.5mm) or
Un-Routed Net Constraint: Net NetR28_2 Between Pad U6-4(23.45mm,85.9mm) on Component Side [Unplated] And Pad R32-1(258.318mm,126.733mm)
Un-Routed Net Constraint: Net NetR33_1 Between Pad U4-1(131.85mm,46.25mm) on Component Side [Unplated] And Pad R33-1(188.214mm,63.106mm)
Un-Routed Net Constraint: Net NetR34_2 Between Pad U1-3(34.3mm,85.7mm) on Component Side [Unplated] And Pad R34-2(416.941mm,128.283mm) or
Un-Routed Net Constraint: Net NetR38_1 Between Pad R38-1(33.2mm,79.425mm) on Component Side And Pad U11-17(103.49mm,50.2mm) or
Un-Routed Net Constraint: Net NetR38_2 Between Pad R38-2(33.2mm,80.975mm) on Component Side And Pad U1-2(33.65mm,85.7mm) on Component Side
Un-Routed Net Constraint: Net NetR4_1 Between Pad U11-12(109.84mm,50.2mm) on Component Side And Pad R4-1(125.9mm,66.78mm) on Component Side
Un-Routed Net Constraint: Net NetR4_3 Between Pad U11-11(111.11mm,50.2mm) on Component Side And Pad R4-3(125.9mm,65.1mm) on Component Side
Un-Routed Net Constraint: Net NetR4_4 Between Pad U11-10(112.38mm,50.2mm) on Component Side And Pad R4-4(125.9mm,64.22mm) on Component Side
Un-Routed Net Constraint: Net NetR4_5 Between Pad R4-5(127.3mm,64.22mm) on Component Side And Pad U2-6(132.1mm,67.65mm) on Component Side
Un-Routed Net Constraint: Net NetR45_1 Between Pad U1-1(33mm,85.7mm) on Component Side [Unplated] And Pad R45-1(344.932mm,126.733mm) or
Un-Routed Net Constraint: Net NetR4_6 Between Pad R4-6(127.3mm,65.1mm) on Component Side And Pad U2-5(132.1mm,68.3mm) on Component Side
Un-Routed Net Constraint: Net NetR4_7 Between Pad R4-7(127.3mm,65.9mm) on Component Side And Pad U2-3(132.1mm,69.6mm) on Component Side
Un-Routed Net Constraint: Net NetD5_2 Between Pad R47-1(119.7mm,37.125mm) on Component Side And Pad R48-2(122.398mm,38.756mm) or
Un-Routed Net Constraint: Net NetR47_2 Between Pad R47-2(119.7mm,38.675mm) on Component Side And Pad U4-4(131.85mm,44.3mm) or
Un-Routed Net Constraint: Net NetR4_8 Between Pad R4-8(127.3mm,66.78mm) on Component Side And Pad U2-2(132.1mm,70.25mm) on Component Side
Un-Routed Net Constraint: Net NetR47_2 Between Pad U4-4(131.85mm,44.3mm) on Component Side [Unplated] And Pad R49-1(164.084mm,63.106mm)
Un-Routed Net Constraint: Net NetD6_2 Between Pad R50-1(50mm,53.225mm) on Component Side And Pad R51-2(53.416mm,54.583mm) on Component Side
Un-Routed Net Constraint: Net NetR50_2 Between Pad U1-4(34.95mm,85.7mm) on Component Side [Unplated] And Pad R50-2(50mm,54.775mm) or
Un-Routed Net Constraint: Net NetC2_1 Between Pad R51-1(53.416mm,53.033mm) on Component Side And Pad U12-2(76.275mm,35mm) on Component Side
Un-Routed Net Constraint: Net NetR50_2 Between Pad U1-4(34.95mm,85.7mm) on Component Side [Unplated] And Pad R52-1(334.772mm,126.733mm)
Un-Routed Net Constraint: Net GND Between Pad R53-2(313.182mm,128.283mm) on Component Side And Pad R52-2(334.772mm,128.283mm) or
Un-Routed Net Constraint: Net NetR53_1 Between Pad U6-1(21.5mm,85.9mm) on Component Side [Unplated] And Pad R53-1(313.182mm,126.733mm)
Un-Routed Net Constraint: Net NetR54_2 Between Pad U7-3(10.35mm,83.05mm) on Component Side [Unplated] And Pad R54-2(252.476mm,128.283mm)
Un-Routed Net Constraint: Net NetR56_1 Between Pad R56-1(10.9mm,76.95mm) on Component Side And Pad U11-16(104.76mm,50.2mm) or
Un-Routed Net Constraint: Net NetR56_2 Between Pad U7-2(9.7mm,83.05mm) on Component Side [Unplated] And Pad R56-2(10.9mm,78.5mm) or

Un-Routed Net Constraint ( (All) )
Un-Routed Net Constraint: Net GND Between Pad R60-2(199.898mm,128.283mm) on Component Side And Pad R57-2(217.424mm,128.283mm) or
Un-Routed Net Constraint: Net NetD1_2 Between Pad R58-1(13.94mm,72.833mm) on Component Side And Pad R59-2(16.1mm,72.825mm) or
Un-Routed Net Constraint: Net NetR58_2 Between Pad U7-4(11mm,83.05mm) on Component Side [Unplated] And Pad R58-2(13.94mm,74.383mm) or
Un-Routed Net Constraint: Net NetC31_1 Between Pad R59-1(16.1mm,74.375mm) on Component Side And Pad U12-4(77.575mm,35mm) on Component Side [Unplated]
Un-Routed Net Constraint: Net NetR60_1 Between Pad U7-1(9.05mm,83.05mm) on Component Side [Unplated] And Pad R60-1(199.898mm,126.733mm) or
Un-Routed Net Constraint: Net NetR58_2 Between Pad U7-4(11mm,83.05mm) on Component Side [Unplated] And Pad R61-1(182.372mm,126.733mm) or
Un-Routed Net Constraint: Net NetR6_2 Between Pad U3-4(275.625mm,31.646mm) on Component Side And Pad R6-2(278.2mm,32.025mm) or
Un-Routed Net Constraint: Net NetR64_1 Between Pad U13-16(88.33mm,50.9mm) on Component Side And Pad R64-1(108.7mm,85.44mm) or
Un-Routed Net Constraint: Net NetR64_3 Between Pad U13-15(89.6mm,50.9mm) on Component Side And Pad R64-3(108.7mm,87.12mm) on Component Side [Unplated]
Un-Routed Net Constraint: Net NetR64_4 Between Pad U13-14(90.87mm,50.9mm) on Component Side And Pad R64-4(108.7mm,88mm) on Component Side [Unplated]
Un-Routed Net Constraint: Net NetR64_5 Between Pad U9-6(102.3mm,87.7mm) on Component Side [Unplated] And Pad R64-5(107.3mm,88mm) or
Un-Routed Net Constraint: Net NetR64_6 Between Pad U9-5(101.65mm,87.7mm) on Component Side [Unplated] And Pad R64-6(107.3mm,87.12mm) or
Un-Routed Net Constraint: Net NetR64_7 Between Pad U9-3(100.35mm,87.7mm) on Component Side [Unplated] And Pad R64-7(107.3mm,86.32mm) or
Un-Routed Net Constraint: Net NetR64_8 Between Pad U9-2(99.7mm,87.7mm) on Component Side [Unplated] And Pad R64-8(107.3mm,85.44mm) or
Un-Routed Net Constraint: Net GND Between Pad R65-2(312.801mm,45.86mm) on Component Side And Pad R66-2(318.643mm,45.86mm) on Component Side [Unplated]
Un-Routed Net Constraint: Net GND Between Pad R68-2(295.275mm,45.86mm) on Component Side And Pad R65-2(312.801mm,45.86mm) on Component Side [Unplated]
Un-Routed Net Constraint: Net NetR68_1 Between Pad U9-1(99.05mm,87.7mm) on Component Side [Unplated] And Pad R68-1(295.275mm,44.31mm) or
Un-Routed Net Constraint: Net NetD7_2 Between Pad R69-1(97.891mm,111.51mm) on Component Side And Pad R70-2(103.733mm,113.06mm) or
Un-Routed Net Constraint: Net NetR69_2 Between Pad R69-2(97.891mm,113.06mm) on Component Side And Pad U9-4(101mm,87.7mm) on Component Side [Unplated]
Un-Routed Net Constraint: Net NetC35_1 Between Pad U12-13(78.225mm,40.8mm) on Component Side And Pad R70-1(103.733mm,111.51mm) or
Un-Routed Net Constraint: Net NetR69_2 Between Pad U9-4(101mm,87.7mm) on Component Side [Unplated] And Pad R71-1(283mm,49.225mm) or
Un-Routed Net Constraint: Net NetR72_1 Between Pad U13-13(92.14mm,50.9mm) on Component Side And Pad R72-1(131.14mm,81mm) on Component Side [Unplated]
Un-Routed Net Constraint: Net NetR72_3 Between Pad U13-12(93.41mm,50.9mm) on Component Side And Pad R72-3(132.82mm,81mm) on Component Side [Unplated]
Un-Routed Net Constraint: Net NetR72_4 Between Pad U13-11(94.68mm,50.9mm) on Component Side And Pad R72-4(133.7mm,81mm) on Component Side [Unplated]
Un-Routed Net Constraint: Net NetR72_5 Between Pad U10-6(133.45mm,87.6mm) on Component Side [Unplated] And Pad R72-5(133.7mm,82.4mm) or
Un-Routed Net Constraint: Net NetR72_6 Between Pad U10-5(132.8mm,87.6mm) on Component Side [Unplated] And Pad R72-6(132.82mm,82.4mm) or
Un-Routed Net Constraint: Net NetR72_7 Between Pad U10-3(131.5mm,87.6mm) on Component Side [Unplated] And Pad R72-7(132.02mm,82.4mm) or
Un-Routed Net Constraint: Net NetR72_8 Between Pad U10-2(130.85mm,87.6mm) on Component Side [Unplated] And Pad R72-8(131.14mm,82.4mm) or
Un-Routed Net Constraint: Net GND Between Pad R74-2(199.644mm,45.86mm) on Component Side And Pad R75-2(205.486mm,45.86mm) on Component Side [Unplated]
Un-Routed Net Constraint: Net GND Between Pad R77-2(182.118mm,45.86mm) on Component Side And Pad R74-2(199.644mm,45.86mm) on Component Side [Unplated]
Un-Routed Net Constraint: Net GND Between Pad TP8-1(195.326mm,27.458mm) on Component Side And Pad R74-2(199.644mm,45.86mm) or
Un-Routed Net Constraint: Net NetR77_1 Between Pad U10-1(130.2mm,87.6mm) on Component Side [Unplated] And Pad R77-1(182.118mm,44.31mm) or
Un-Routed Net Constraint: Net NetD8_2 Between Pad R78-1(145.034mm,96.81mm) on Component Side And Pad R79-2(150.876mm,98.36mm) or
Un-Routed Net Constraint: Net NetR78_2 Between Pad R78-2(145.034mm,98.36mm) on Component Side And Pad R80-1(145.2mm,102.425mm) or
Un-Routed Net Constraint: Net NetR78_2 Between Pad U10-4(132.15mm,87.6mm) on Component Side [Unplated] And Pad R78-2(145.034mm,98.36mm)
Un-Routed Net Constraint: Net NetR81_1 Between Pad R81-1(87.52mm,57.2mm) on Component Side And Pad U13-10(95.95mm,50.9mm) on Component Side [Unplated]
Un-Routed Net Constraint: Net NetR81_3 Between Pad U14-17(62.86mm,50.3mm) on Component Side And Pad R81-3(89.2mm,57.2mm) on Component Side [Unplated]
Un-Routed Net Constraint: Net NetR81_4 Between Pad U14-16(64.13mm,50.3mm) on Component Side And Pad R81-4(90.08mm,57.2mm) on Component Side [Unplated]
Un-Routed Net Constraint: Net NetR81_5 Between Pad R81-5(90.08mm,58.6mm) on Component Side And Pad U15-6(90.1mm,61.85mm) on Component Side [Unplated]
Un-Routed Net Constraint: Net NetR81_6 Between Pad R81-6(89.2mm,58.6mm) on Component Side And Pad U15-5(89.45mm,61.85mm) on Component Side [Unplated]
Un-Routed Net Constraint: Net NetR81_7 Between Pad U15-3(88.15mm,61.85mm) on Component Side [Unplated] And Pad R81-7(88.4mm,58.6mm) or
Un-Routed Net Constraint: Net NetR81_8 Between Pad U15-2(87.5mm,61.85mm) on Component Side [Unplated] And Pad R81-8(87.52mm,58.6mm) or
Un-Routed Net Constraint: Net PB2_5V_EN Between Pad U3-5(275.625mm,32.596mm) on Component Side And Pad R8-2(278.4mm,18.625mm) or
Un-Routed Net Constraint: Net GND Between Pad R84-2(272.288mm,96.406mm) on Component Side And Pad R83-2(278.13mm,96.406mm) or
Un-Routed Net Constraint: Net NetR84_1 Between Pad U15-1(86.85mm,61.85mm) on Component Side [Unplated] And Pad R84-1(272.288mm,94.856mm)
Un-Routed Net Constraint: Net NetD9_2 Between Pad R85-1(93.604mm,63.956mm) on Component Side And Pad R86-2(96.046mm,65.406mm) or
Un-Routed Net Constraint: Net NetR85_2 Between Pad R85-2(93.604mm,65.506mm) on Component Side And Pad R87-1(249.428mm,94.856mm) or
Un-Routed Net Constraint: Net NetR85_2 Between Pad U15-4(88.8mm,61.85mm) on Component Side [Unplated] And Pad R85-2(93.604mm,65.506mm) or
Un-Routed Net Constraint: Net NetC41_1 Between Pad U12-15(79.525mm,40.8mm) on Component Side And Pad R86-1(96.046mm,63.856mm) or
Un-Routed Net Constraint: Net NetR88_1 Between Pad U14-15(65.4mm,50.3mm) on Component Side And Pad R88-1(113.72mm,56.2mm) on Component Side [Unplated]
Un-Routed Net Constraint: Net NetR88_3 Between Pad U14-14(66.67mm,50.3mm) on Component Side And Pad R88-3(115.4mm,56.2mm) on Component Side [Unplated]
Un-Routed Net Constraint: Net NetR88_4 Between Pad U14-13(67.94mm,50.3mm) on Component Side And Pad R88-4(116.28mm,56.2mm) or

Un-Routed Net Constraint ( (All) )
Un-Routed Net Constraint: Net NetR88_5 Between Pad R88-5(116.28mm,57.6mm) on Component Side And Pad U16-6(116.45mm,61.5mm) or
Un-Routed Net Constraint: Net NetR88_6 Between Pad R88-6(115.4mm,57.6mm) on Component Side And Pad U16-5(115.8mm,61.5mm) on Component Side [Unplated] And Pad R88-7(114.6mm,57.6mm) or
Un-Routed Net Constraint: Net NetR88_7 Between Pad U16-3(114.5mm,61.5mm) on Component Side [Unplated] And Pad R88-7(114.6mm,57.6mm) or
Un-Routed Net Constraint: Net NetR88_8 Between Pad R88-8(113.72mm,57.6mm) on Component Side And Pad U16-2(113.85mm,61.5mm) or
Un-Routed Net Constraint: Net GND Between Pad R91-2(183.388mm,96.406mm) on Component Side And Pad R90-2(188.722mm,96.406mm) or
Un-Routed Net Constraint: Net NetR91_1 Between Pad U16-1(113.2mm,61.5mm) on Component Side [Unplated] And Pad R91-1(183.388mm,94.856mm) or
Un-Routed Net Constraint: Net NetD10_2 Between Pad R93-2(121.2mm,60.575mm) on Component Side And Pad R92-1(123.604mm,58.856mm) or
Un-Routed Net Constraint: Net NetR92_2 Between Pad R92-2(123.604mm,60.406mm) on Component Side And Pad R94-1(160.02mm,94.856mm) or
Un-Routed Net Constraint: Net NetR92_2 Between Pad U16-4(115.15mm,61.5mm) on Component Side [Unplated] And Pad R92-2(123.604mm,60.406mm) or
Un-Routed Net Constraint: Net NetC44_1 Between Pad U12-12(77.575mm,40.8mm) on Component Side And Pad R93-1(121.2mm,59.025mm) or
Un-Routed Net Constraint: Net NetR97_2 Between Pad U18-3(61.85mm,84.6mm) on Component Side [Unplated] And Pad R97-2(440.817mm,109.487mm) or
Un-Routed Net Constraint: Net NetR99_1 Between Pad U14-12(69.21mm,50.3mm) on Component Side And Pad R99-1(73.32mm,80mm) on Component Side [Unplated] And Pad R99-1(73.32mm,80mm) or
Un-Routed Net Constraint: Net NetR99_3 Between Pad U14-11(70.48mm,50.3mm) on Component Side And Pad R99-3(75mm,80mm) on Component Side [Unplated] And Pad R99-3(75mm,80mm) or
Un-Routed Net Constraint: Net NetR99_4 Between Pad U14-10(71.75mm,50.3mm) on Component Side And Pad R99-4(75.88mm,80mm) on Component Side [Unplated] And Pad R99-4(75.88mm,80mm) or
Un-Routed Net Constraint: Net NetR99_5 Between Pad R99-5(75.88mm,81.4mm) on Component Side And Pad U17-6(75.9mm,84.85mm) on Component Side [Unplated] And Pad U17-6(75.9mm,84.85mm) or
Un-Routed Net Constraint: Net NetR99_6 Between Pad R99-6(75mm,81.4mm) on Component Side And Pad U17-5(75.25mm,84.85mm) on Component Side [Unplated] And Pad U17-5(75.25mm,84.85mm) or
Un-Routed Net Constraint: Net NetR99_7 Between Pad U17-3(73.95mm,84.85mm) on Component Side [Unplated] And Pad R99-7(74.2mm,81.4mm) or
Un-Routed Net Constraint: Net NetR99_8 Between Pad U17-2(73.3mm,84.85mm) on Component Side [Unplated] And Pad R99-8(73.32mm,81.4mm) or
Un-Routed Net Constraint: Net GND Between Pad TP8-1(195.326mm,25.908mm) on Component Side And Pad TP8-1(195.326mm,27.458mm) or
Un-Routed Net Constraint: Net Right_Display_PWR Between Pad U10-10(132.8mm,93.3mm) on Component Side [Unplated] And Pad U10-10(132.8mm,93.3mm) or
Un-Routed Net Constraint: Net Left_Display_PWR Between Pad U10-13(130.85mm,93.3mm) on Component Side [Unplated] And Pad U10-13(130.85mm,93.3mm) or
Un-Routed Net Constraint: Net Left_Display_PWR Between Pad U10-14(130.2mm,93.3mm) on Component Side [Unplated] And Pad U10-14(130.2mm,93.3mm) or
Un-Routed Net Constraint: Net VBAT Between Pad U10-15(132.15mm,90.45mm) on Component Side [Unplated] And Pad U2-15(134.95mm,68.95mm) or
Un-Routed Net Constraint: Net VBAT Between Pad U9-15(101mm,90.55mm) on Component Side [Unplated] And Pad U10-15(132.15mm,90.45mm) or
Un-Routed Net Constraint: Net Right_Display_PWR Between Pad U10-9(133.45mm,93.3mm) on Component Side [Unplated] And Pad U10-9(133.45mm,93.3mm) or
Un-Routed Net Constraint: Net Horns_PWR Between Pad U1-12(34.3mm,91.4mm) on Component Side [Unplated] And Pad U1-10(35.6mm,91.4mm) or
Un-Routed Net Constraint: Net Horns_PWR Between Pad U1-10(35.6mm,91.4mm) on Component Side [Unplated] And Pad U1-9(36.25mm,91.4mm) or
Un-Routed Net Constraint: Net IO_EX_I2C_SDA Between Pad U13-1(85.79mm,41.5mm) on Component Side And Pad U11-1(102.22mm,40.8mm) or
Un-Routed Net Constraint: Net IO_EX_I2C_SCL Between Pad U13-2(87.06mm,41.5mm) on Component Side And Pad U11-2(103.49mm,40.8mm) or
Un-Routed Net Constraint: Net Horns_PWR Between Pad U1-13(33.65mm,91.4mm) on Component Side [Unplated] And Pad U1-12(34.3mm,91.4mm) or
Un-Routed Net Constraint: Net GND Between Pad U11-3(104.76mm,40.8mm) on Component Side And Pad U11-4(106.03mm,40.8mm) on Component Side [Unplated] And Pad U11-4(106.03mm,40.8mm) or
Un-Routed Net Constraint: Net GND Between Pad U13-9(95.95mm,41.5mm) on Component Side And Pad U11-3(104.76mm,40.8mm) on Component Side [Unplated] And Pad U11-3(104.76mm,40.8mm) or
Un-Routed Net Constraint: Net Horns_PWR Between Pad U1-14(33mm,91.4mm) on Component Side [Unplated] And Pad U1-13(33.65mm,91.4mm) or
Un-Routed Net Constraint: Net GND Between Pad U11-4(106.03mm,40.8mm) on Component Side And Pad U11-5(107.3mm,40.8mm) on Component Side [Unplated] And Pad U11-5(107.3mm,40.8mm) or
Un-Routed Net Constraint: Net GND Between Pad U11-5(107.3mm,40.8mm) on Component Side And Pad U11-9(112.38mm,40.8mm) on Component Side [Unplated] And Pad U11-9(112.38mm,40.8mm) or
Un-Routed Net Constraint: Net VBAT Between Pad U1-15(34.95mm,88.55mm) on Component Side [Unplated] And Pad U19-15(48.95mm,86.55mm) or
Un-Routed Net Constraint: Net VBAT Between Pad U6-15(23.45mm,88.75mm) on Component Side [Unplated] And Pad U1-15(34.95mm,88.55mm) or
Un-Routed Net Constraint: Net GND Between Pad U12-7(79.525mm,35mm) on Component Side And Pad U12-8(80.175mm,35mm) on Component Side [Unplated] And Pad U12-8(80.175mm,35mm) or
Un-Routed Net Constraint: Net GND Between Pad U14-9(71.75mm,40.9mm) on Component Side And Pad U12-7(79.525mm,35mm) on Component Side [Unplated] And Pad U12-7(79.525mm,35mm) or
Un-Routed Net Constraint: Net GND Between Pad U12-8(80.175mm,35mm) on Component Side And Pad U13-3(88.33mm,41.5mm) on Component Side [Unplated] And Pad U13-3(88.33mm,41.5mm) or
Un-Routed Net Constraint: Net IO_EX_I2C_SDA Between Pad U14-1(61.59mm,40.9mm) on Component Side And Pad U13-1(85.79mm,41.5mm) or
Un-Routed Net Constraint: Net IO_EX_I2C_SCL Between Pad U14-2(62.86mm,40.9mm) on Component Side And Pad U13-2(87.06mm,41.5mm) or
Un-Routed Net Constraint: Net GND Between Pad U13-3(88.33mm,41.5mm) on Component Side And Pad U13-4(89.6mm,41.5mm) on Component Side [Unplated] And Pad U13-4(89.6mm,41.5mm) or
Un-Routed Net Constraint: Net GND Between Pad U13-4(89.6mm,41.5mm) on Component Side And Pad U13-9(95.95mm,41.5mm) on Component Side [Unplated] And Pad U13-9(95.95mm,41.5mm) or
Un-Routed Net Constraint: Net GND Between Pad U14-3(64.13mm,40.9mm) on Component Side And Pad U14-5(66.67mm,40.9mm) on Component Side [Unplated] And Pad U14-5(66.67mm,40.9mm) or
Un-Routed Net Constraint: Net GND Between Pad U14-5(66.67mm,40.9mm) on Component Side And Pad U14-9(71.75mm,40.9mm) on Component Side [Unplated] And Pad U14-9(71.75mm,40.9mm) or
Un-Routed Net Constraint: Net Rear_PI_PWR Between Pad U15-10(89.45mm,67.55mm) on Component Side [Unplated] And Pad U15-10(89.45mm,67.55mm) or
Un-Routed Net Constraint: Net Main_PI_PWR Between Pad U15-13(87.5mm,67.55mm) on Component Side [Unplated] And Pad U15-13(87.5mm,67.55mm) or
Un-Routed Net Constraint: Net Main_PI_PWR Between Pad U15-14(86.85mm,67.55mm) on Component Side [Unplated] And Pad U15-14(86.85mm,67.55mm) or
Un-Routed Net Constraint: Net Rear_PI_PWR Between Pad U15-9(90.1mm,67.55mm) on Component Side [Unplated] And Pad U15-8(90.75mm,67.55mm) or
Un-Routed Net Constraint: Net Right_PI_PWR Between Pad U16-10(115.8mm,67.2mm) on Component Side [Unplated] And Pad U16-10(115.8mm,67.2mm) or
Un-Routed Net Constraint: Net Left_PI_PWR Between Pad U16-13(113.85mm,67.2mm) on Component Side [Unplated] And Pad U16-13(113.85mm,67.2mm) or

Un-Routed Net Constraint ( All )
Un-Routed Net Constraint: Net Left_PI_PWR Between Pad U16-14(113.2mm,67.2mm) on Component Side [Unplated] And Pad U16-15(113.2mm,87.45mm) or
Un-Routed Net Constraint: Net Right_PI_PWR Between Pad U16-9(116.45mm,67.2mm) on Component Side [Unplated] And Pad U16-8(117.1mm,67.2mm) or
Un-Routed Net Constraint: Net Spare_4_PWR Between Pad U17-10(75.25mm,90.55mm) on Component Side [Unplated] And Pad U17-9(75.9mm,90.55mm) or
Un-Routed Net Constraint: Net Spare_3_PWR Between Pad U17-13(73.3mm,90.55mm) on Component Side [Unplated] And Pad U17-12(73.3mm,90.55mm) or
Un-Routed Net Constraint: Net Spare_3_PWR Between Pad U17-14(72.65mm,90.55mm) on Component Side [Unplated] And Pad U17-13(72.65mm,90.55mm) or
Un-Routed Net Constraint: Net VBAT Between Pad U18-15(62.5mm,87.45mm) on Component Side [Unplated] And Pad U17-15(74.6mm,87.7mm) or
Un-Routed Net Constraint: Net VBAT Between Pad U17-15(74.6mm,87.7mm) on Component Side [Unplated] And Pad U9-15(101mm,90.55mm) or
Un-Routed Net Constraint: Net Spare_4_PWR Between Pad U17-9(75.9mm,90.55mm) on Component Side [Unplated] And Pad U17-8(76.55mm,90.55mm) or
Un-Routed Net Constraint: Net Horns_PWR Between Pad U1-9(36.25mm,91.4mm) on Component Side [Unplated] And Pad U1-8(36.9mm,91.4mm) or
Un-Routed Net Constraint: Net Spare_1_PWR Between Pad U18-13(61.2mm,90.3mm) on Component Side [Unplated] And Pad U18-12(61.85mm,90.3mm) or
Un-Routed Net Constraint: Net Spare_1_PWR Between Pad U18-14(60.55mm,90.3mm) on Component Side [Unplated] And Pad U18-13(61.2mm,90.3mm) or
Un-Routed Net Constraint: Net VBAT Between Pad U19-15(48.95mm,86.55mm) on Component Side [Unplated] And Pad U18-15(62.5mm,87.45mm) or
Un-Routed Net Constraint: Net Spare_2_PWR Between Pad U19-13(47.65mm,89.4mm) on Component Side [Unplated] And Pad U19-12(48.3mm,89.4mm) or
Un-Routed Net Constraint: Net Spare_2_PWR Between Pad U19-14(47mm,89.4mm) on Component Side [Unplated] And Pad U19-13(47.65mm,89.4mm) or
Un-Routed Net Constraint: Net Front_Right_Turn_Light_PWR Between Pad U2-9(137.8mm,67.65mm) on Component Side [Unplated] And Pad U2-8(137.8mm,67.65mm) or
Un-Routed Net Constraint: Net VBAT Between Pad U4-15(134.7mm,44.3mm) on Component Side [Unplated] And Pad U2-15(134.95mm,68.95mm) or
Un-Routed Net Constraint: Net Steering_PWR Between Pad U6-10(24.1mm,91.6mm) on Component Side [Unplated] And Pad U6-9(24.75mm,91.6mm) or
Un-Routed Net Constraint: Net Pedal_PWR Between Pad U6-13(22.15mm,91.6mm) on Component Side [Unplated] And Pad U6-12(22.8mm,91.6mm) or
Un-Routed Net Constraint: Net Pedal_PWR Between Pad U6-14(21.5mm,91.6mm) on Component Side [Unplated] And Pad U6-13(22.15mm,91.6mm) or
Un-Routed Net Constraint: Net VBAT Between Pad U7-15(11mm,85.9mm) on Component Side [Unplated] And Pad U6-15(23.45mm,88.75mm) or
Un-Routed Net Constraint: Net Steering_PWR Between Pad U6-9(24.75mm,91.6mm) on Component Side [Unplated] And Pad U6-8(25.4mm,91.6mm) or
Un-Routed Net Constraint: Net Speaker_PWR Between Pad U7-13(9.7mm,88.75mm) on Component Side [Unplated] And Pad U7-12(10.35mm,88.75mm) or
Un-Routed Net Constraint: Net Speaker_PWR Between Pad U7-14(9.05mm,88.75mm) on Component Side [Unplated] And Pad U7-13(9.7mm,88.75mm) or
Un-Routed Net Constraint: Net Rear_Display_PWR Between Pad U9-10(101.65mm,93.4mm) on Component Side [Unplated] And Pad U9-9(102.3mm,93.4mm) or
Un-Routed Net Constraint: Net Rear_Display_PWR Between Pad U9-9(102.3mm,93.4mm) on Component Side [Unplated] And Pad U9-8(102.3mm,93.4mm) or

Hole Size Constraint (Min=0.025mm) (Max=2.54mm) (All)
Hole Size Constraint: (2.7mm > 2.54mm) Pad Free-(121.5mm,2.5mm) on Multi-Layer Actual Hole Size = 2.7mm
Hole Size Constraint: (2.7mm > 2.54mm) Pad Free-(121.5mm,27.5mm) on Multi-Layer Actual Hole Size = 2.7mm
Hole Size Constraint: (2.7mm > 2.54mm) Pad Free-(151.5mm,103.5mm) on Multi-Layer Actual Hole Size = 2.7mm
Hole Size Constraint: (2.7mm > 2.54mm) Pad Free-(151.5mm,2.5mm) on Multi-Layer Actual Hole Size = 2.7mm
Hole Size Constraint: (2.7mm > 2.54mm) Pad Free-(151.5mm,27.5mm) on Multi-Layer Actual Hole Size = 2.7mm
Hole Size Constraint: (2.7mm > 2.54mm) Pad Free-(2.5mm,103.5mm) on Multi-Layer Actual Hole Size = 2.7mm
Hole Size Constraint: (2.7mm > 2.54mm) Pad Free-(2.5mm,2.5mm) on Multi-Layer Actual Hole Size = 2.7mm

