

+15

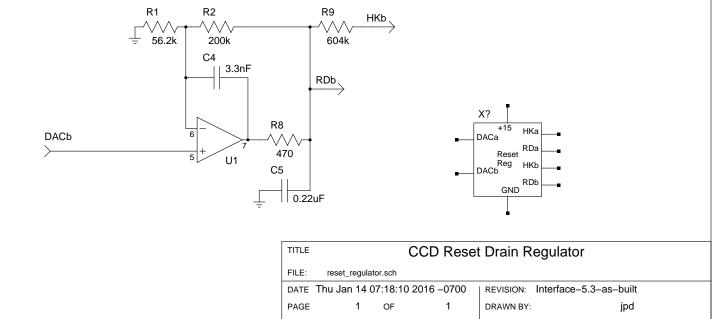
R6

49.9

22nF

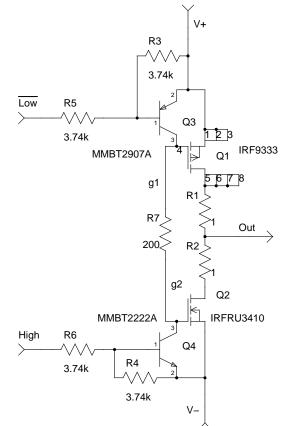
Noqsi Aerospace, Ltd. 2822 South Nova Road, Pine, Colorado, USA 80470

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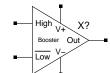
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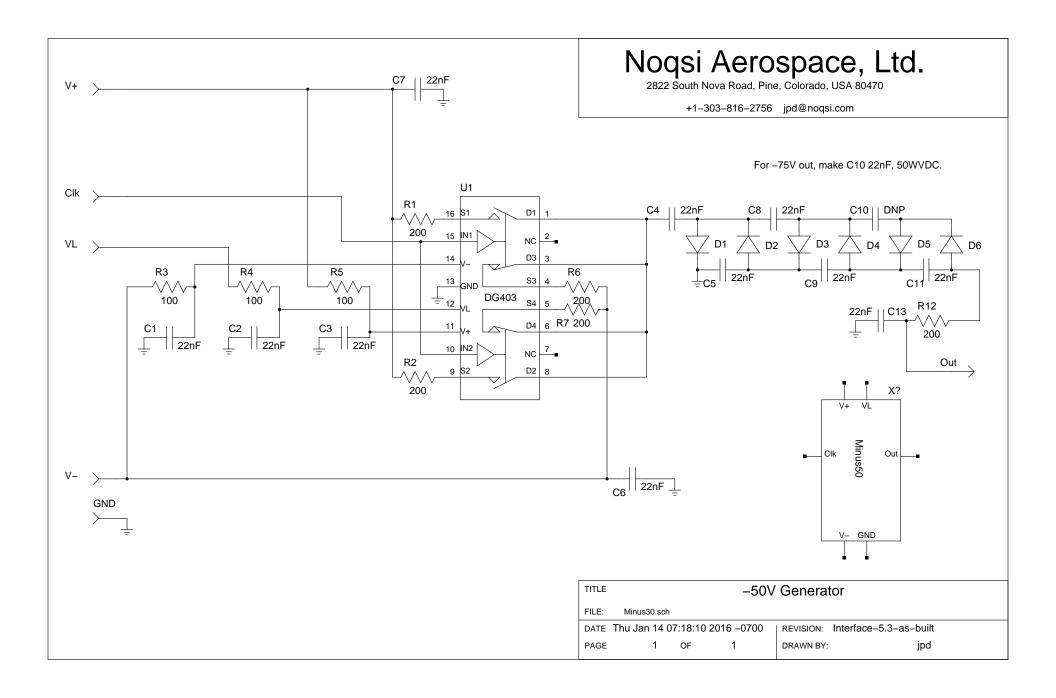
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.subckt Booster %up

TITLE		Parallel clo	ock current booster	
FILE:	Booster.sch			
DATE	Thu Jan 14 07:18	3:10 2016 -0700	REVISION: Interface-5.3-as-built	
PAGE	1 OF	- 1	DRAWN BY: jpd	

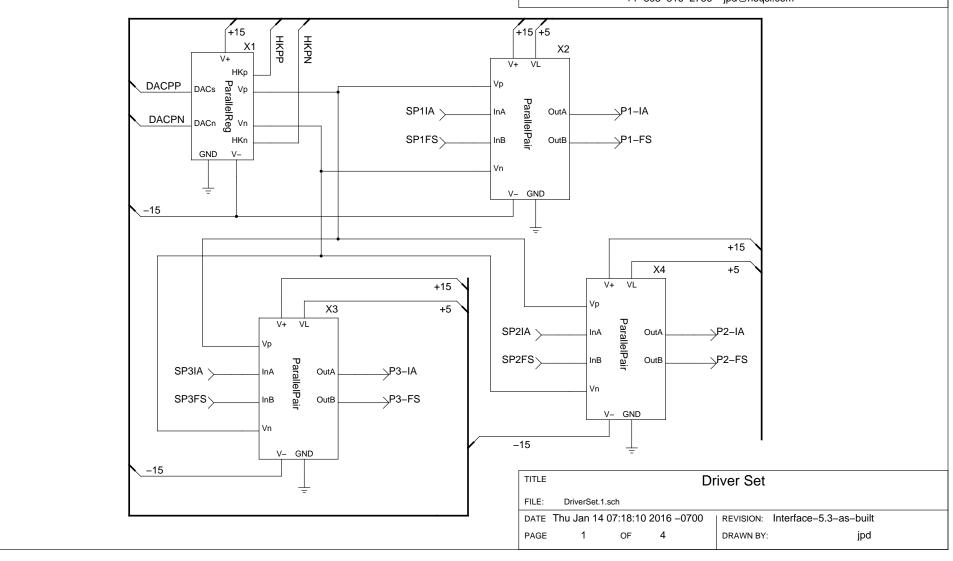


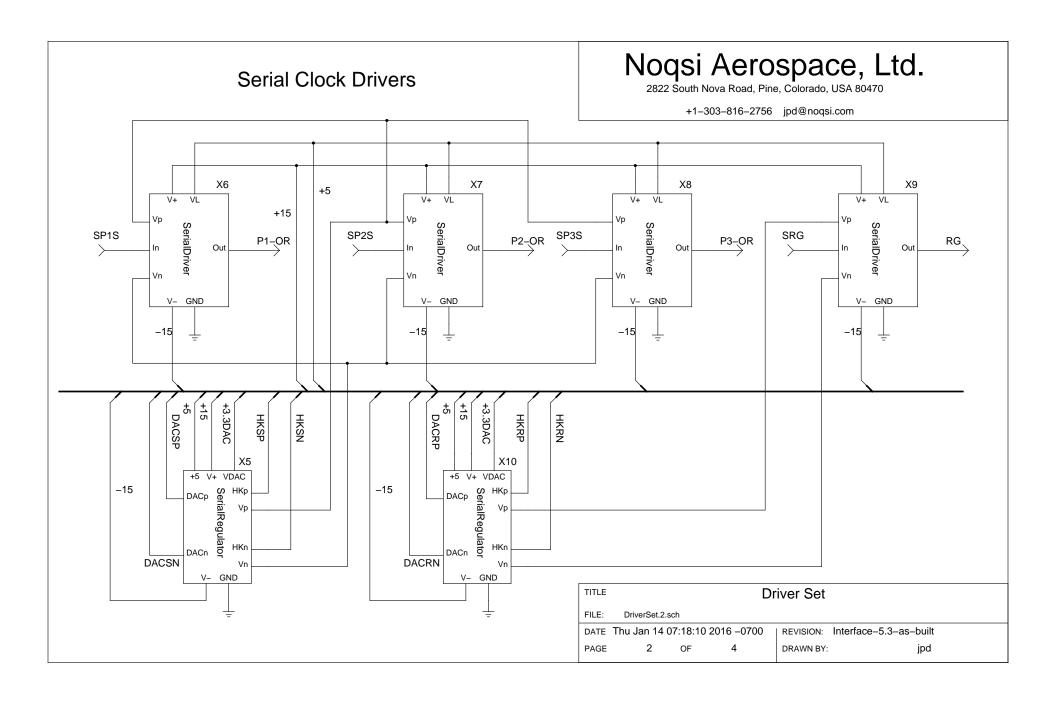


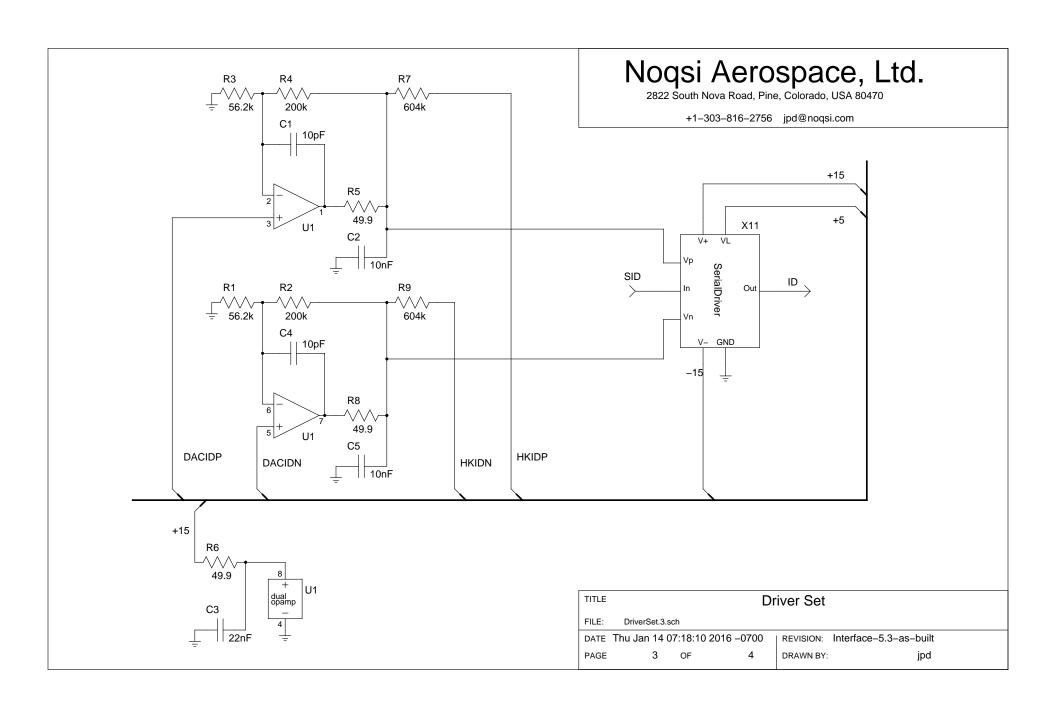
Parallel Clock Drivers

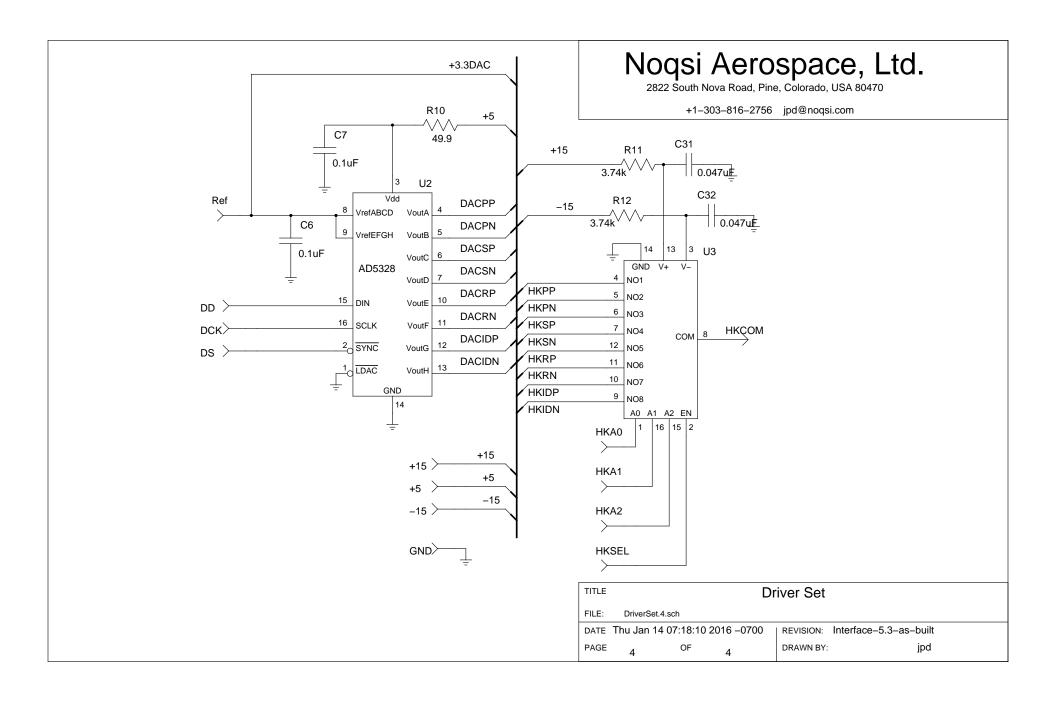
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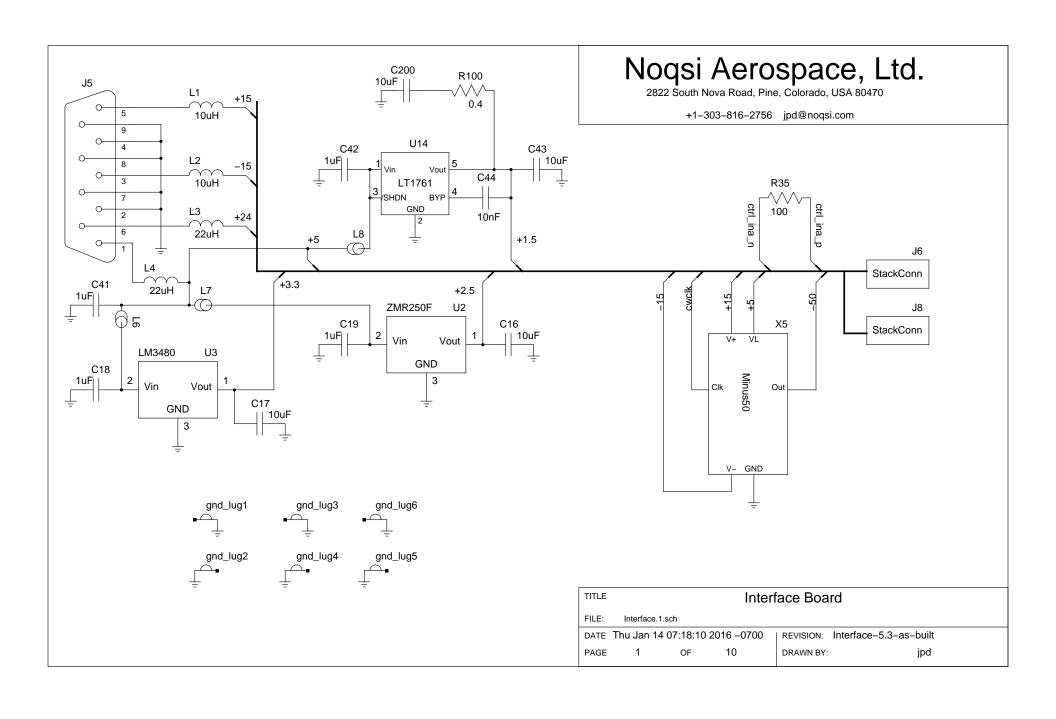
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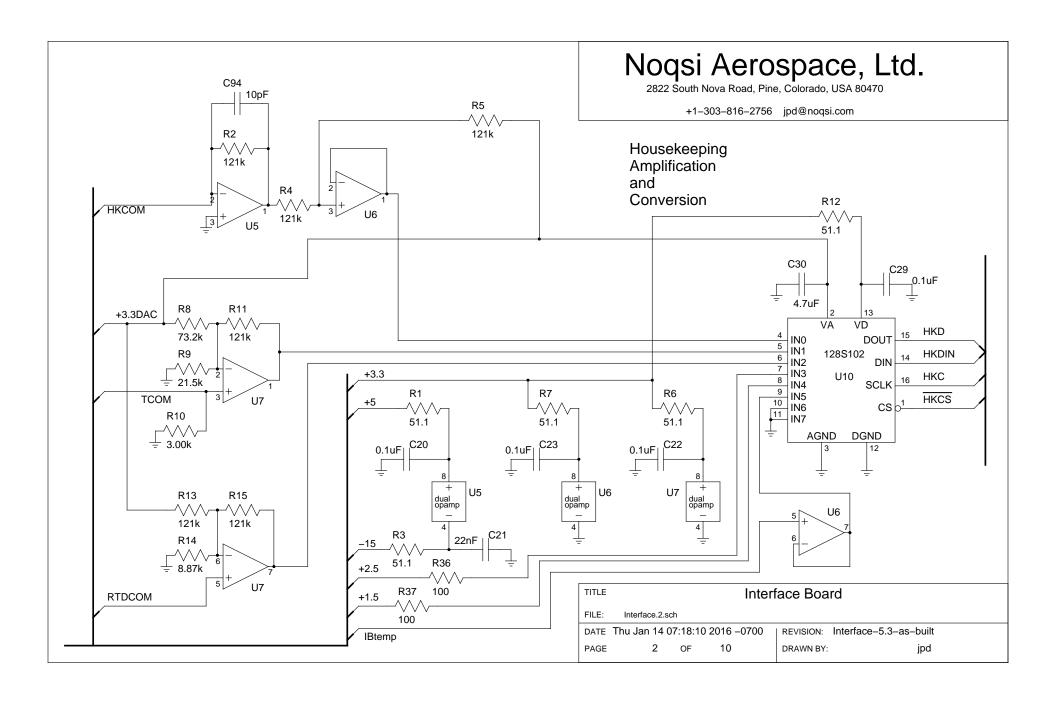






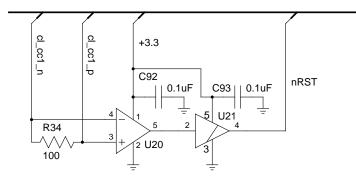






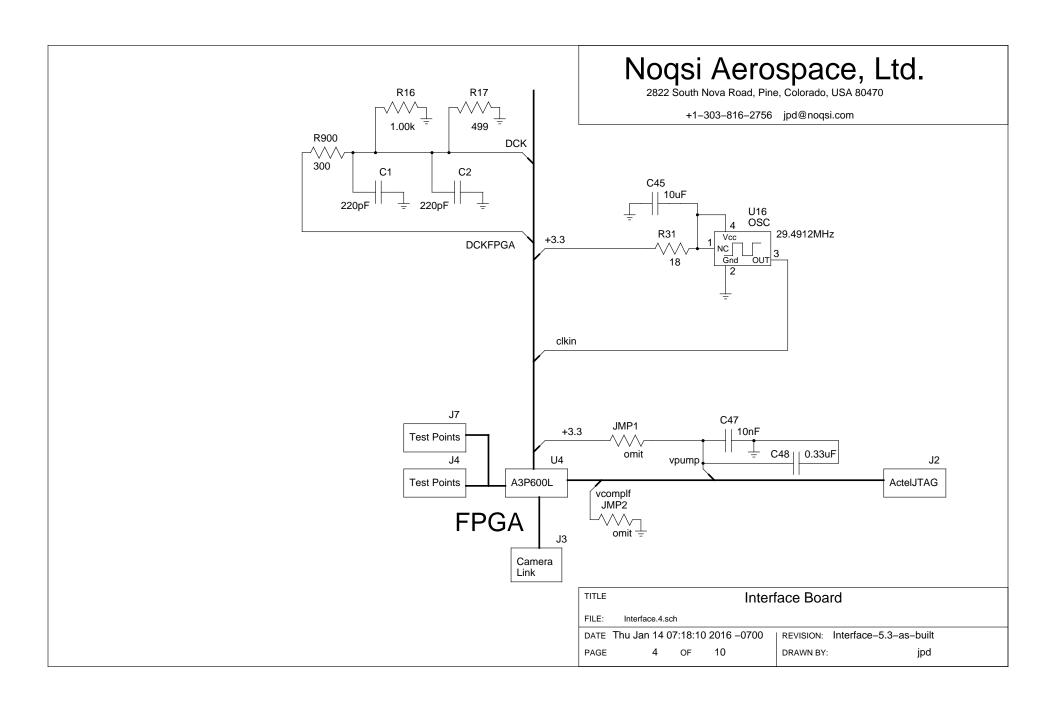
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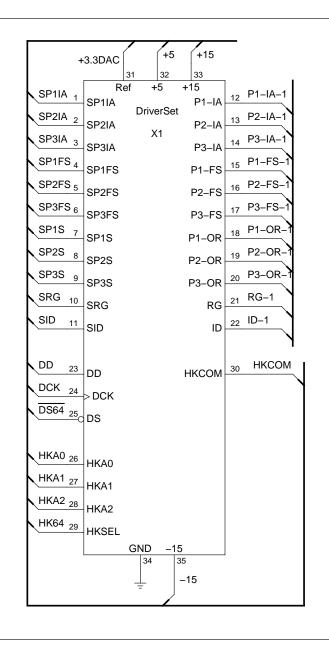
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Camera Control Inputs

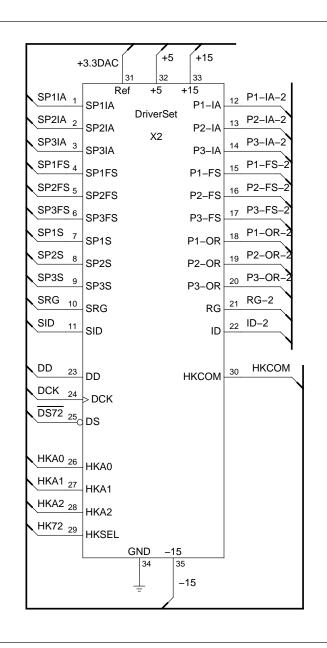
TITLE			Inte	rface Boa	rd	
FILE:	Interface	.3.sch				
DATE	Thu Jan 1	4 07:18:10	2016 –0700	REVISION:	Interface-5.3-as-built	
PAGE	3	OF	10	DRAWN BY:	jpd	





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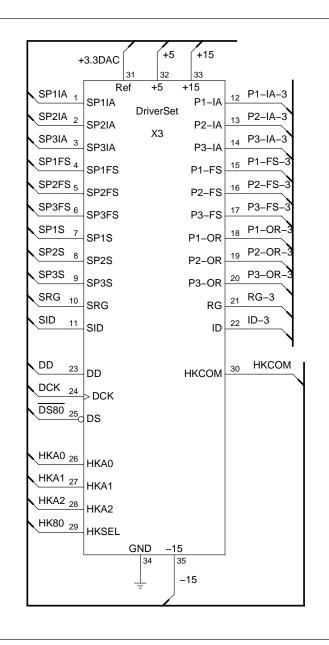
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 Interface Board

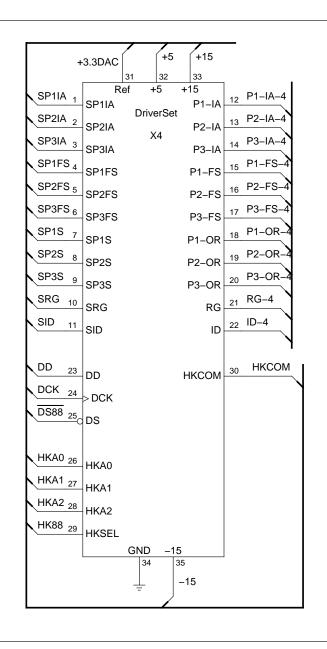
 FILE: Interface.6.sch

 DATE Thu Jan 14 07:18:10 2016 -0700 PAGE 6 OF 10 DRAWN BY: jpd



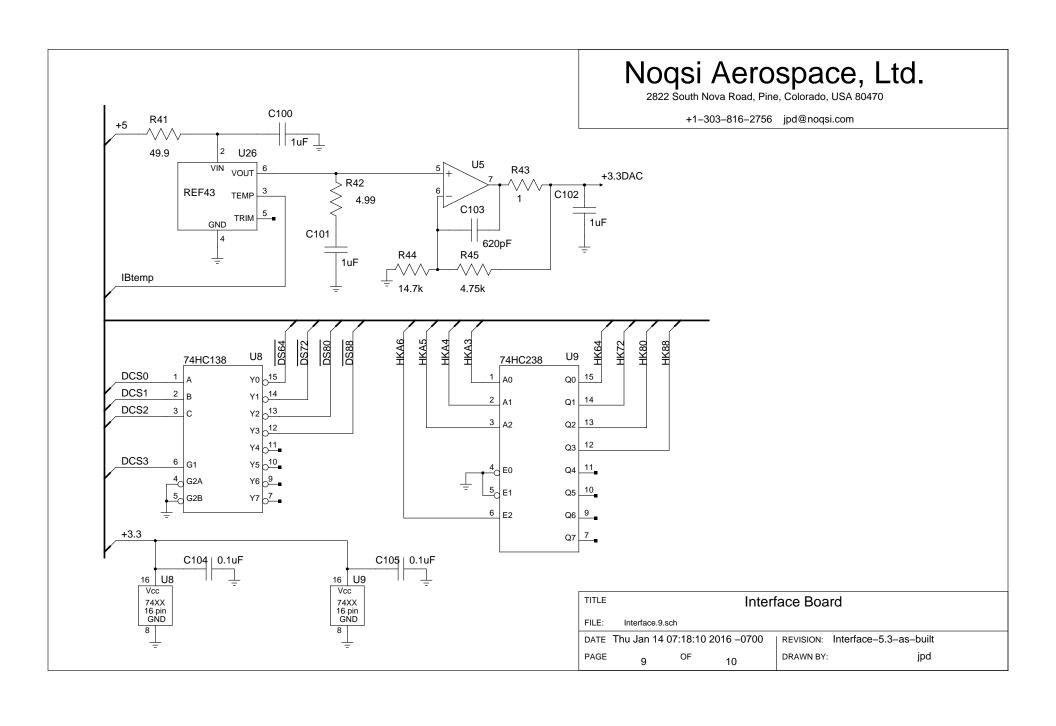
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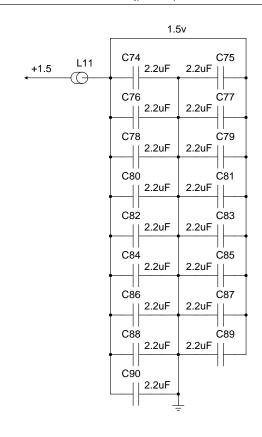


FPGA Bypass 3.3v Capacitors C50 L9 +3.3 2.2uF 2.2uF C52 2.2uF 2.2uF C53 C54 2.2uF 2.2uF C55 C56 2.2uF 2.2uF C57 C58 2.2uF 2.2uF C59 C60 2.2uF C62 2.2uF 2.2uF C64 2.2uF 2.2uF C65 C66 2.2uF 2.2uF C67 2.5v 2.2uF C68 C69 L10 +2.5 2.2uF 2.2uF C70 C71 2.2uF 2.2uF C72 C73 2.2uF 2.2uF

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TITLE	Interface Board					
FILE:	Interface.10.	.sch				
DATE	ATE Thu Jan 14 07:18:10 2016 -0700 REVISION: Interface-5.3-as-built					
PAGE	10	OF	10	DRAWN BY:	jpd	

Dec	08, 14 13:0	00	Interface.J2.txt	Page 1/1
J2	1	tck		
J2	3	tdo		
J2	5	tms		
J2	7	vpump		
J2	9	tdi		
J2	2	GND		
J2	6	+3.3		
J2	8	trst		
J2	10	GND		

Jun 2	0, 15 14:55		Interface.J3.txt	Page 1/1
J3	1	GND		
J3	14	GND		
J3	2	cl_out0n		
J3	15	cl_out0p		
J3	3	cl_out1n		
J3	16	cl_out1p		
J3	4	cl_out2n		
J3	17	cl_out2p		
J3	5	cl_clkn		
J3	18	cl_clkp		
J3	6	cl_out3n		
J3	19	cl_out3p		
J3	7	ctrl_ina_p		
J3	20	ctrl_ina_n		
J3	8	ctrl_out_n		
J3	21	ctrl_out_p		
J3	9	cl_ccl_n		
J3	22	cl_ccl_p		
J3	10	cl_cc2_n		
J3	23	cl_cc2_p		
J3	11	cl_cc3_n		
J3	24	cl_cc3_p		
J3	12	cl_cc4_n		
J3	25	cl_cc4_p		
J3	13	GND		
J3	26	GND		

			T fillited by defill bety
Dec 08, 14 13:		Interface.J4.txt	Page 1/1
J4 1 J4 2	<pre>tp_out[0] tp_out[1]</pre>		
J4 2 J4 3 J4 4 J4 5 J4 6 J4 7 J4 8	tp_out[2] tp_out[3]		
J4 5 J4 6 J4 7	tp_out[4] tp_out[5]		
J4 8	tp_out[6] tp_out[7]		

l 20	45.40.05		video intercennest tyt	Do 20 4/0
	, 15 10:25		video_interconnect.txt	Page 1/3
J8	Al B1	GND		
J8	B1	+24		
Ј6 Ј6	A34 B34	-15 +5		
J8	A2	+5 SCK-1		
J8	B2	-50		
J6	A33	GND		
J6	B33	+15		
J8	A3	GND		
J8	В3	P1-FS-1		
J6	A32	SCK-4		
J6	B32	ID-4		
J8	A4	CNV-1		
J8	B4	P2-FS-1		
J6	A31	GND		
J6	B31	P1-OR-4		
J8	A5	GND		
J8 J6	B5 A30	P3-FS-1 CNV-4		
J6	B30	P2-OR-4		
J8	A6	SDO-A-1		
J8	В6	P3-OR-1		
J6	A29	GND		
J6	B29	P3-OR-4		
J8	A7	GND		
J8	в7	P2-OR-1		
J6	A28	SDO-D-4		
J6	B28	P3-IA-4		
J8	A8	SDO-B-1		
J8	B8	P1-OR-1		
Ј6 Ј6	A27 B27	GND P2-IA-4		
J8	A9	GND		
J8	B9	RG-1		
J6	A26	SDO-C-4		
J6	B26	P1-IA-4		
J8	A10	SDO-C-1		
J8	B10	P1-IA-1		
J6	A25	GND		
J6	B25	RG-4		
J8	A11	GND		
J8	B11	P2-IA-1		
Ј6 Ј6	A24 B24	SDO-B-4 P3-FS-4		
J8	A12	SDO-D-1		
J8	B12	P3-IA-1		
J6	A23	GND		
J6	B23	P2-FS-4		
J8	A13	GND		
J8	B13	ID-1		
J6	A22	SDO-A-4		
J6	B22	P1-FS-4		
J8	A14	GND		
J8	B14	GND		
Ј6 # Ј6	A21 B21	GND +2.5		
J8	A15	GND		
J8	B15	DCS1		
J6	A20	GND		
		-		

Jur	n 20, 15 10:25		video_interconnect.txt	Page 2/3
J6	B20	GND	-	<u> </u>
J8	A16	GND		
J8	B16	DCS0		
J6	A19	GND		
J6	B19	HKA0		
J8	A17	Int		
J8	B17	DCS2		
J6	A18	DD		
J6	B18	HKA1		
J8	A18	GND		
J8	B18	DCS3		
Ј6 Ј6	A17 B17	HKA3 HKA2		
J8	A19	_Hold_		
J8	B19	HKCOM		
J6	A16	HKA5		
J6	B16	HKA4		
J8	A20	GND		
J8	B20	TCOM		
J6	A15	GND		
J6	B15	нкаб		
J8	A21	Clamp		
J8	B21	RTDCOM		
J6	A14	GND		
J6	B14	DCK		
J8	A22	GND		
J8	B22	GND		
J6 J6	A13 B13	GND GND		
J8	A23	GND		
J8	B23	GND		
J6	A12	SCK-3		
J6	B12	GND		
J8	A24	SCK-2		
J8	B24	P1-FS-2		
J6	A11	GND		
J6	B11	ID-3		
J8	A25	GND		
J8	B25	P2-FS-2		
J6	A10	CNV-3		
Ј6 J8	B10 A26	P1-OR-3 CNV-2		
J8	B26	P3-FS-2		
J6	A9	GND		
J6	B9	P2-OR-3		
J8	A27	GND		
J8	B27	P3-OR-2		
Ј6	A8	SDO-D-3		
J6	В8	P3-OR-3		
J8	A28	SDO-A-2		
J8	B28	P2-OR-2		
J6	A7	GND		
J6	B7	P3-IA-3		
J8	A29 B29	GND		
Ј8 Ј6	B29 A6	P1-OR-2 SDO-C-3		
J6	86 B6	P2-IA-3		
J8	A30	SDO-B-2		
J8	B30	RG-2		
00/50		-		Thursday January 44, 0040

Jun	20, 15 10:25		video_interconnect.txt	Page 3/3
Ј6	A5	GND		
J6	В5	P1-IA-3		
J8	A31	GND		
J8	B31	P1-IA-2		
J6	A4	SDO-B-3		
J6	В4	RG-3		
J8	A32	SDO-C-2		
J8	B32	P2-IA-2		
J6	A3	GND		
J6	В3	P3-FS-3		
J8	A33	GND		
J8	В33	P3-IA-2		
J6	A2	SDO-A-3		
J6	В2	P2-FS-3		
J8	A34	SDO-D-2		
J8	В34	ID-2		
J6	A1	GND		
J6	B1	P1-FS-3		

Dec (08, 14 13:00	Interface.J7.txt	Page 1/1
J7	1	CNV	
J7	2	FVAL	
J7	3	seq_data[14]	
J7	5	seq_strbn	
J7	6	seq_strbp	
J7	7	seq_clkn	
J7	8	seq_clkp	

```
Interface.U4.txt
                                                                                Page 1/3
 Jun 20, 15 14:55
# Table of FPGA pins
# column 3 is the name in the schematic
# column 4, if different, is the FPGA's internal name
# some pins commented out with # because they arenâM-^@M-^Yt used
U4
        A1
                 GND
U4
        A2
                 ctrl_out
U4
        A3
                 ctrl ina
U4
        Α4
                 nRST
U4
                 DCS3
        A5
U4
        А6
                 SP3FS
                          seq_dat5
U4
        Α7
                 SRG
                          seq_dat9
U4
        8A
                 FVAL
                          seq dat16
U4
        Α9
                 LVAL
                          seq_dat17
U4
        A10
                 DCS0
U4
        A11
                 HKA4
U4
        A12
                 HKA2
U4
        A13
                 HKA0
U4
        A14
                 HKDIN
                          HK_DIN
U4
        A15
                 HKC
                          HKSCK
U4
        A16
                 GND
U4
        В1
                 cl_out1p
U4
        В2
                 cl_out0p
U4
        В3
                 GND
                          GNDQ
U4
        В4
                 SP3IA
                           seq_dat2
U4
        В5
                 DCS1
U4
        В6
                 SP1IA
                          seq_dat0
U4
        В7
                 SP3S
                          seq_dat8
U4
        В8
                 CNV
                           seg dat15
U4
        В9
                  \_Hold\_
                                   seq_dat12
U4
                 DCS2
        B10
                 HKA3
U4
        B11
U4
        B12
                 HKA1
U4
        B13
                 HKD
                          HK_D
U4
        B14
                 \_HKCS\_
                                   HK_CS
U4
        B15
                 seq_clkp
                 seq_clkn
U4
        B16
U4
        C1
                 cl outln
                 cl_out0n
U4
        C2
U4
        C3
                          VMV3
                  2.5v
U4
        C4
                 SP2IA
                          seq dat1
U4
        C5
                 SP1FS
                          seq_dat3
U4
        С6
                 reset
U4
        C7
                 SP2S
                          seq_dat7
U4
        C8
                 seq_data[14]
                                   seq_dat14
U4
        C9
                          seq_dat11
                 Clamp
U4
        C14
                          VMV0
                 3.3v
U4
        C16
                 seq_strbp
U4
        D1
                 cl_out2n
U4
        D2
                 cl_out2p
U4
        D5
                 GND
                          GNDQ
U4
        D6
                          seq_dat4
                 SP2FS
U4
        D7
                           seq_dat6
                 SP1S
U4
        D8
                           seq_dat13
                 SID
U4
        D12
                 GND
                          GNDQ
U4
        D16
                 seq_strbn
U4
        E1
                 cl_out3p
                  3.3v
U4
        E5
                          VMV0
                  3.3v
U4
        E6
                          VCCIB0
```

U4 E7 3.3v VCCIB0 U4 E8 Int seq_dat10 U4 E10 3.3v VCCIB0 U4 E11 3.3v VCCIB0 U4 E12 3.3v VMV1 U4 E16 tp_out[0] tp_out0 U4 F1 cl_out3n	
U4 E10 3.3v VCCIB0 U4 E11 3.3v VCCIB0 U4 E12 3.3v VMV1 U4 E16 tp_out[0] tp_out0 U4 F1 cl_out3n	
U4 E11 3.3v VCCIB0 U4 E12 3.3v VMV1 U4 E16 tp_out[0] tp_out0 U4 F1 cl_out3n	
U4 E12 3.3v VMV1 U4 E16 tp_out[0] tp_out0 U4 F1 cl_out3n	
U4 E16 tp_out[0] tp_out0 U4 F1 cl_out3n	
U4 F1 cl_out3n	
IIA DE O C MOGEDO	
U4 F5 2.5v VCCIB3	
U4 F6 GND	
U4 F7 1.5v VCC	
U4 F8 1.5v VCC	
U4 F9 1.5v VCC	
U4 F10 1.5v VCC	
U4 F11 GND	
U4 F12 3.3v VCCIB1	
U4 F16 tp_out[1] tp_out1	
U4 G2 cl_clkn	
U4 G3 cl_clkp	
U4 G5 2.5v VCCIB3	
U4 G6 1.5v VCC	
U4 G7 GND	
U4 G8 GND	
U4 G9 GND	
U4 G10 GND	
U4 G11 1.5v VCC	
U4 G12 3.3v VCCIB1	
U4 G13 seq_active seq_actv	
U4 G16 tp_out[2] tp_out2	
U4 H4 vcomplf VCOMPL	
U4 H6 1.5v VCC	
U4 H7 GND	
U4 H8 GND	
U4 H9 GND	
U4 H10 GND	
U4 H11 1.5v VCC	
U4 H16 tp_out[3] tp_out3	
U4 J3 1.5v VCCPL	
U4 J6 1.5v VCC	
U4 J7 GND	
U4 J8 GND	
U4 J9 GND	
U4 J10 GND	
U4 J11 1.5v VCC	
U4 J16 clkin	
U4 K5 2.5v VCCIB3	
U4 K6 1.5v VCC	
U4 K7 GND	
U4 K8 GND	
U4 K9 GND	
U4 K10 GND	
U4 K11 1.5v VCC	
U4 K12 3.3v VCCIB1	
U4 K13 SDO-D-1 sdo3	
U4 K16 tp_out[4] tp_out4	
U4 L3 ctrl_out_p	
U4 L5 2.5v VCCIB3	
U4 L6 GND	
U4 L7 1.5v VCC	
U4 L8 1.5v VCC	

l	0 45 44 55		Interfoce III tyt	D 0/2
	20, 15 14:55	.	Interface.U4.txt	Page 3/3
U4 U4	L9	1.5v VCC		
U4	L10 L11	1.5v VCC GND		
U4	L12	3.3v VCCIB1		
U4	L13	SDO-A-2 sdo4		
U4	L14	SDO-B-1 sdo1		
U4	L16	tp_out[5]	tp_out5	
U4	M2	ctrl_out_n		
U4	M5	2.5v VMV3		
U4	M6	3.3v VCCIB2		
U4	M7	3.3v VCCIB2		
U4 U4	M8 M9	SDO-D-4 sdo15 SDO-C-4 sdo14		
U4	M10	3.3v VCCIB2		
U4	M11	3.3v VCCIB2		
U4	M12	3.3v VMV2		
U4	M13	SDO-B-2 sdo5		
U4	M14	SDO-C-1 sdo2		
U4	M16	tp_out[6]	tp_out6	
U4	N5	GND GNDQ		
U4	N10	SDO-B-4 sdo13		
U4	N11 N12	SDO-A-4 sdo12 GND GNDQ		
U4 U4	N12 N13	GND GNDQ SDO-C-2 sdo6		
U4	N13	3.3v VJTAG		
U4	N15	SDO-A-1 sdo0		
U4	N16	tp_out[7]	tp_out7	
U4	P1	ctrl_ina_p	_	
U4	P2	ctrl_ina_n		
U4	P3	3.3v VMV2		
U4	P9	CNV-4 cnv4		
U4 U4	P10 P11	CNV-3 cnv3 CNV-2 cnv2		
U4	P11 P12	3.3v VMV1		
U4	P13	tck TCK		
U4	P14	vpump VPUMP		
U4	P15	trst TRST		
U4	P16	cwclk CWCLK		
U4	R3	нкаб		
U4	R9	SCK-3 sck3		
U4 U4	R10 R11	SCK-1 sck1 CNV-1 cnv1		
U4	R11 R12	SDO-C-3 sdo10		
U4	R13	SDO-D-2 sdo7		
U4	R14	tdi TDI		
U4	R15	GND GNDQ		
U4	R16	tdo TDO		
U4	T1	GND		
U4	T2	DD		
U4 U4	T3 T4	DCKFPGA HKA5		
U4 U4	T8	SCK-4 sck4		
U4	T9	SCK-2 sck2		
U4	T12	SDO-D-3 sdoll		
U4	T13	SDO-B-3 sdo9		
U4	T14	SDO-A-3 sdo8		
U4	T15	tms TMS		
U4	T16	GND		

Jan 14, 16 7:34		Interface.bom.txt				Page 1/26
refdes	device value	spec	footprint	descript	cion	
L11	EXC-3BB102H	_	unknown 0603	EMI chi		
C89	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
C87	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
C85	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
C83	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
C81	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
C79	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
C77	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
C75	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
C90	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
C88	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
C86	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
C84	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
C82	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
C80	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
C78	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
C76	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
C74	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
L10	EXC-3BB102H		unknown 0603	EMI chi		capacitoi
C73	CAPACITOR	2.2uF	6.3WVDC X5R	0603	•	capacitor
C71	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
C69	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
C72	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
C70	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
C68	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
L9	EXC-3BB102H		unknown 0603	EMI chi		Capacitoi
C66	CAPACITOR	2.2uF	6.3WVDC X5R	0603	•	capacitor
C64	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
C62	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
C60	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
C58	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
C56	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
C54	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
C54	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
C52	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
C67	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
C65	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
C63	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
C61	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
C59	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
C57		2.2uF		0603		
C57	CAPACITOR CAPACITOR	2.2uF 2.2uF	6.3WVDC X5R 6.3WVDC X5R	0603		capacitor
C55			6.3WVDC X5R 6.3WVDC X5R	0603		capacitor
C53	CAPACITOR	2.2uF				capacitor
C49	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
C105	CAPACITOR	0.1uF	25WVDC X7R	0603		capacitor
U9	74HC238 unknown			te_confl:		gono git
C104	CAPACITOR	0.1uF	25WVDC X7R	0603		capacitor
U8	74HC138 unknown			te_confl:		
R45	RESISTOR	4.75k	1% 1/10W	0603	Resistor	
C103	CAPACITOR	620pF	10WVDC 0805		capacito	
R44	RESISTOR	14.7k	1% 1/10W	0603	Resistor	
R43	RESISTOR	1	1% 1/10W	0603	Resistor	
C102	CAPACITOR	1uF	10WVDC 0805		capacito	
C101	CAPACITOR	1uF	10WVDC 0805		capacito	
R42	RESISTOR	4.99	1% 1/10W	0603	Resistor	
C100	CAPACITOR	1uF	10WVDC 0805		capacito	
R41	RESISTOR	49.9	1% 1/10W	0603	Resistor	<u> </u>

				11		44		
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U26	REFERENC		REF43GS		S08	2.5V Ref		
X4/R12 X4/R11	RESISTOR RESISTOR		3.74k 3.74k	1% 1/10W		0603 0603	Resistor Resistor	
X4/R11 X4/C7	CAPACIT(0.1uF	1% 1/10W 10WVDC	v 0603		capacito	
X4/C/ X4/R10	RESISTOR		49.9	1% 1/10W		0603	Resistor	
X4/C6	CAPACIT(0.1uF		0603		capacito	
	CAPACITO			50WVDC X		0603	Ceramic	capacitor
X4/U3	MAX308CS			unknown			analog r	
	CAPACITO			50WVDC X		0603		capacitor
X4/U2	AD5328	unknown				AC		_
X4/X1/Z	1	ZENER_DI		BZV55-B3			SOD80C	
X4/X1/Z		ZENER_DI		BZV55-B3			SOD80C	unknown
X4/X1/C		CAPACITO		22nF	50WVDC	0603		capacitor
X4/X1/C		CAPACITO		22nF	50WVDC	0603		capacitor
X4/X1/C		CAPACITO		22nF	50WVDC	0603		capacitor
X4/X1/C: X4/X1/C:		CAPACITO CAPACITO		luF luF	25WVDC 25WVDC	1812 1812		capacitor capacitor
X4/X1/C		RESISTOR		604k	1% 1/10V		0603	Resistor
X4/X1/R		RESISTOR		604k	1% 1/10V		0603	Resistor
X4/X1/C		CAPACITO		22nF	50WVDC	0603		capacitor
X4/X1/R		RESISTOR		10	1% 1W	2512	Resistor	
X4/X1/C		CAPACITO		1uF		1812	Ceramic	capacitor
X4/X1/R	12	RESISTOR		33.2k	1% 1/10W		0603	Resistor
X4/X1/Q				unknown		unknown		
X4/X1/C'		CAPACITO		47pF	50WVDC	0603		capacitor
X4/X1/R		RESISTOR		4.99k	1% 1/10W		0603	Resistor
X4/X1/Q		PNP_TRAN		MMBT2907		unknown		unknown
X4/X1/R		RESISTOR		10	1% 1W	2512 1812	Resistor	
X4/X1/C3 X4/X1/R3		CAPACITO RESISTOR		1uF 301k	25WVDC 1% 1/10W		0603	capacitor Resistor
X4/X1/C		CAPACITO		330pF	50WVDC	0603		capacitor
X4/X1/R		RESISTOR		10k	1% 1/10W		0603	Resistor
X4/X1/Q				unknown		unknown		
X4/X1/R	17	RESISTOR	_	10k	1% 1/10W		0603	Resistor
X4/X1/R		RESISTOR	2	10k	1% 1/10W		0603	Resistor
X4/X1/C		CAPACITO		330pF	50WVDC	0603		capacitor
X4/X1/C		CAPACITO		22nF	50WVDC	0603		capacitor
X4/X1/C		CAPACITO		22nF	50WVDC	0603		capacitor
X4/X1/R: X4/X1/R:		RESISTOR RESISTOR		10k 10k	1% 1/10V 1% 1/10V		0603 0603	Resistor Resistor
X4/X1/R3		RESISTOR		60.4k	1% 1/10V		0603	Resistor
X4/X1/R		RESISTOR		75k	1% 1/10V		0603	Resistor
X4/X1/R		RESISTOR		301k	1% 1/10W		0603	Resistor
X4/X1/U		DUAL_OPA		LM6142A1		N/A	S08	attribute_confli
ct		_						_
X4/X1/R	1	RESISTOR	2	54.9k	1% 1/10W		0603	Resistor
X4/X1/R		RESISTOR		54.9k	1% 1/10W		0603	Resistor
X4/X1/R		RESISTOR		301k	1% 1/10V		0603	Resistor
X4/X1/U	Т	DUAL_OPA	ML	LM6142A1	⁻I∧I	N/A	S08	attribute_confli
ct X4/X2/C	3	CAPACITO)P	22nF	50WVDC	0603	Ceramic	capacitor
X4/X2/C		CAPACITO		2211F 22nF	50WVDC	0603		capacitor
X4/X2/C		CAPACITO		22nF	50WVDC	0603		capacitor
X4/X2/C'		CAPACITO		1uF	25WVDC	1812		capacitor
X4/X2/C		CAPACITO		1uF	25WVDC	1812		capacitor
X4/X2/C		CAPACITO	R	1uF	25WVDC	1812	Ceramic	capacitor
X4/X2/C		CAPACITO		1uF	25WVDC	1812		capacitor
X4/X2/R		RESISTOR		3.74k	1% 1/10V		0603	Resistor
X4/X2/R	Т	RESISTOR	_	3.74k	1% 1/10W	V	0603	Resistor

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X4/X2/R7	RESISTOR	3.74k	1% 1/10	W	0603	Resistor		
X4/X2/R6	RESISTOR	3.74k	1% 1/10	W	0603	Resistor		
X4/X2/X2/Q1	PMOS-SO8	IRF9333	unknown	S08	P channe	el MOS transistor		
(enhancement t	type)							
X4/X2/X2/R6	RESISTOR	3.74k	1% 1/10	W	0603	Resistor		
X4/X2/X2/R5	RESISTOR	3.74k	1% 1/10	W	0603	Resistor		
X4/X2/X2/R4	RESISTOR	3.74k	1% 1/10	W	0603	Resistor		
X4/X2/X2/R3	RESISTOR	3.74k	1% 1/10	M	0603	Resistor		
X4/X2/X2/R7	RESISTOR	200	1% 1/10	M	0603	Resistor		
X4/X2/X2/Q4	NPN_TRANSISTOR	MMBT222		unknown		unknown		
X4/X2/X2/Q3	PNP_TRANSISTOR	MMBT290		unknown		unknown		
X4/X2/X2/R2	RESISTOR	1	1% 1W	2512	Resisto			
X4/X2/X2/R1	RESISTOR	1	1% 1W	2512	Resisto:			
X4/X2/X2/Q2	NMOS_TRANSISTOR		0	unknown	TO252AA	generic N channe		
	or (enhancement ty		_	_	_			
X4/X2/X1/Q1	PMOS-SO8	IRF9333	unknown	S08	P channe	el MOS transistor		
(enhancement t					0.555			
X4/X2/X1/R6	RESISTOR	3.74k	1% 1/10		0603	Resistor		
X4/X2/X1/R5	RESISTOR	3.74k	1% 1/10		0603	Resistor		
X4/X2/X1/R4	RESISTOR	3.74k	1% 1/10		0603	Resistor		
X4/X2/X1/R3	RESISTOR	3.74k	1% 1/10		0603	Resistor		
X4/X2/X1/R7	RESISTOR	200	1% 1/10		0603	Resistor		
X4/X2/X1/Q4	NPN_TRANSISTOR	MMBT222		unknown		unknown		
X4/X2/X1/Q3	PNP_TRANSISTOR	MMBT290		unknown		unknown		
X4/X2/X1/R2	RESISTOR	1	1% 1W	2512	Resisto			
X4/X2/X1/R1	RESISTOR	1	1% 1W	2512	Resisto:			
X4/X2/X1/Q2	NMOS_TRANSISTOR or (enhancement ty		J	unknown	10252AA	generic N channe		
X4/X2/R3	RESISTOR	100	1% 1/10	TAT.	0603	Resistor		
X4/X2/R3 X4/X2/R4	RESISTOR	100	1% 1/10		0603	Resistor		
X4/X2/R4 X4/X2/R5	RESISTOR	100	1% 1/10		0603	Resistor		
X4/X2/K3 X4/X2/U1		unknown			OT switc			
X4/X3/C3	CAPACITOR	22nF		0603		capacitor		
X4/X3/C2	CAPACITOR	22nF	50WVDC			capacitor		
X4/X3/C1	CAPACITOR	22nF		0603		capacitor		
X4/X3/C7	CAPACITOR	1uF	25WVDC	1812		capacitor		
X4/X3/C4	CAPACITOR	1uF	25WVDC	1812		capacitor		
X4/X3/C6	CAPACITOR	1uF	25WVDC	1812		capacitor		
X4/X3/C5	CAPACITOR	1uF	25WVDC	1812		capacitor		
X4/X3/R2	RESISTOR	3.74k	1% 1/10		0603	Resistor		
X4/X3/R1	RESISTOR	3.74k	1% 1/10		0603	Resistor		
X4/X3/R7	RESISTOR	3.74k	1% 1/10	W	0603	Resistor		
X4/X3/R6	RESISTOR	3.74k	1% 1/10		0603	Resistor		
X4/X3/X2/Q1	PMOS-SO8		unknown	S08	P channe	el MOS transistor		
(enhancement type)								
X4/X3/X2/R6	RESISTOR	3.74k	1% 1/10		0603	Resistor		
X4/X3/X2/R5	RESISTOR	3.74k	1% 1/10		0603	Resistor		
X4/X3/X2/R4	RESISTOR	3.74k	1% 1/10		0603	Resistor		
X4/X3/X2/R3	RESISTOR	3.74k	1% 1/10		0603	Resistor		
X4/X3/X2/R7	RESISTOR	200	1% 1/10°		0603	Resistor		
X4/X3/X2/Q4	NPN_TRANSISTOR	MMBT222		unknown		unknown		
X4/X3/X2/Q3	PNP_TRANSISTOR	MMBT290		unknown		unknown		
X4/X3/X2/R2	RESISTOR	1	1% 1W	2512	Resisto			
X4/X3/X2/R1	RESISTOR	1	1% 1W	2512	Resisto:			
X4/X3/X2/Q2	NMOS_TRANSISTOR		J	unknown	TO252AA	generic N channe		
	or (enhancement ty		1	go?	D1-	-1 MOG ' '		
X4/X3/X1/Q1	PMOS-SO8	TKF. 9333	unknown	508	r channe	el MOS transistor		
(enhancement t		2 7/1-	19 1/10	TAT.	0602	Pogiator		
X4/X3/X1/R6	RESISTOR	3.74k	1% 1/10	VV	0603	Resistor		

X4/X3/X1/R5	channe
X4/X3/X1/R4 RESISTOR 3.74k 1% 1/10W 0603 Resistor X4/X3/X1/R3 RESISTOR 3.74k 1% 1/10W 0603 Resistor X4/X3/X1/R7 RESISTOR 200 1% 1/10W 0603 Resistor X4/X3/X1/Q4 NPN_TRANSISTOR MMBT2222A unknown SOT23 unknown X4/X3/X1/Q3 PNP_TRANSISTOR MMBT2907A unknown SOT23 unknown X4/X3/X1/R2 RESISTOR 1 1% 1W 2512 Resistor X4/X3/X1/R1 RESISTOR 1 1% 1W 2512 Resistor X4/X3/X1/Q2 NMOS_TRANSISTOR IRFR3410 unknown TO252AA generic N 1 MOS transistor (enhancement type) X4/X3/R3 RESISTOR 100 1% 1/10W 0603 Resistor X4/X3/R4 RESISTOR 100 1% 1/10W 0603 Resistor X4/X3/R5 RESISTOR 100 1% 1/10W 0603 Resistor X4/X3/V1 DG403 unknown unknown SO16 Dual SPDT switch X4/X4/C3 CAPACITOR 22nF 50WVDC 0603 Ceramic Capacitor X4/X4/C2 CAPACITOR 22nF 50WVDC 0603 Ceramic Capacitor X4/X4/C4 CAPACITOR 22nF 50WVDC 0603 Ceramic Capacitor X4/X4/C4 CAPACITOR 22nF 50WVDC 1812 Ceramic Capacitor X4/X4/C4 CAPACITOR 1uF 25WVDC 1812 Ceramic Capacitor X4/X4/C6 CAPACITOR 1uF 25WVDC 1812 Ceramic Capacitor X4/X4/C5 CAPACITOR 1uF 25WVDC	channe
X4/X3/X1/R3	channe
X4/X3/X1/R7	channe
X4/X3/X1/Q4NPN_TRANSISTORMMBT2222AunknownSOT23unknownX4/X3/X1/Q3PNP_TRANSISTORMMBT2907AunknownSOT23unknownX4/X3/X1/R2RESISTOR11% 1W2512ResistorX4/X3/X1/Q1NMOS_TRANSISTORIRFR3410unknownTO252AA generic N1MOS transistor (enhancement type)X4/X3/R3RESISTOR1001% 1/10W0603ResistorX4/X3/R4RESISTOR1001% 1/10W0603ResistorX4/X3/R5RESISTOR1001% 1/10W0603ResistorX4/X3/U1DG403unknownunknownSO16Dual SPDT switchX4/X4/C3CAPACITOR22nF50WVDC0603Ceramic capacitorX4/X4/C1CAPACITOR22nF50WVDC0603Ceramic capacitorX4/X4/C1CAPACITOR22nF50WVDC0603Ceramic capacitorX4/X4/C4CAPACITOR1uF25WVDC1812Ceramic capacitorX4/X4/C4CAPACITOR1uF25WVDC1812Ceramic capacitorX4/X4/C6CAPACITOR1uF25WVDC1812Ceramic capacitorX4/X4/C5CAPACITOR1uF25WVDC1812Ceramic capacitor	channe
X4/X3/X1/Q3	channe
X4/X3/X1/R1	channe
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	channe
1 MOS transistor (enhancement type) X4/X3/R3 RESISTOR 100 1% 1/10W 0603 Resistor X4/X3/R4 RESISTOR 100 1% 1/10W 0603 Resistor X4/X3/R5 RESISTOR 100 1% 1/10W 0603 Resistor X4/X3/U1 DG403 unknown unknown SO16 Dual SPDT switch X4/X4/C3 CAPACITOR 22nF 50WVDC 0603 Ceramic capacitor X4/X4/C2 CAPACITOR 22nF 50WVDC 0603 Ceramic capacitor X4/X4/C1 CAPACITOR 22nF 50WVDC 0603 Ceramic capacitor X4/X4/C7 CAPACITOR 1uF 25WVDC 1812 Ceramic capacitor X4/X4/C4 CAPACITOR 1uF 25WVDC 1812 Ceramic capacitor X4/X4/C5 CAPACITOR 1uF 25WVDC 1812 Ceramic capacitor X4/X4/C5 CAPACITOR 1uF 25WVDC 1812 Ceramic capacitor	channe
X4/X3/R3 RESISTOR 100 1% 1/10W 0603 Resistor X4/X3/R4 RESISTOR 100 1% 1/10W 0603 Resistor X4/X3/R5 RESISTOR 100 1% 1/10W 0603 Resistor X4/X3/U1 DG403 unknown unknown SO16 Dual SPDT switch X4/X4/C3 CAPACITOR 22nF 50WVDC 0603 Ceramic capacitor X4/X4/C2 CAPACITOR 22nF 50WVDC 0603 Ceramic capacitor X4/X4/C1 CAPACITOR 22nF 50WVDC 0603 Ceramic capacitor X4/X4/C4 CAPACITOR 1uF 25WVDC 1812 Ceramic capacitor X4/X4/C6 CAPACITOR 1uF 25WVDC 1812 Ceramic capacitor X4/X4/C5 CAPACITOR 1uF 25WVDC 1812 Ceramic capacitor X4/X4/C5 CAPACITOR 1uF 25WVDC 1812 Ceramic capacitor	
X4/X3/R4 RESISTOR 100 1% 1/10W 0603 Resistor X4/X3/R5 RESISTOR 100 1% 1/10W 0603 Resistor X4/X3/U1 DG403 unknown unknown SO16 Dual SPDT switch X4/X4/C3 CAPACITOR 22nF 50WVDC 0603 Ceramic capacitor X4/X4/C2 CAPACITOR 22nF 50WVDC 0603 Ceramic capacitor X4/X4/C1 CAPACITOR 22nF 50WVDC 0603 Ceramic capacitor X4/X4/C7 CAPACITOR 1uF 25WVDC 1812 Ceramic capacitor X4/X4/C4 CAPACITOR 1uF 25WVDC 1812 Ceramic capacitor X4/X4/C5 CAPACITOR 1uF 25WVDC 1812 Ceramic capacitor X4/X4/C5 CAPACITOR 1uF 25WVDC 1812 Ceramic capacitor	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
X4/X3/U1 DG403 unknown unknown SO16 Dual SPDT switch X4/X4/C3 CAPACITOR 22nF 50WVDC 0603 Ceramic capacitor X4/X4/C2 CAPACITOR 22nF 50WVDC 0603 Ceramic capacitor X4/X4/C1 CAPACITOR 22nF 50WVDC 0603 Ceramic capacitor X4/X4/C7 CAPACITOR 1uF 25WVDC 1812 Ceramic capacitor X4/X4/C4 CAPACITOR 1uF 25WVDC 1812 Ceramic capacitor X4/X4/C6 CAPACITOR 1uF 25WVDC 1812 Ceramic capacitor X4/X4/C5 CAPACITOR 1uF 25WVDC 1812 Ceramic capacitor	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
X4/X4/C1 CAPACITOR 22nF 50WVDC 0603 Ceramic capacitor X4/X4/C7 CAPACITOR 1uF 25WVDC 1812 Ceramic capacitor X4/X4/C4 CAPACITOR 1uF 25WVDC 1812 Ceramic capacitor X4/X4/C6 CAPACITOR 1uF 25WVDC 1812 Ceramic capacitor X4/X4/C5 CAPACITOR 1uF 25WVDC 1812 Ceramic capacitor CAPACITOR 1uF 25WVDC 1812 Ceramic capacitor	
X4/X4/C7CAPACITOR1uF25WVDC1812Ceramic capacitorX4/X4/C4CAPACITOR1uF25WVDC1812Ceramic capacitorX4/X4/C6CAPACITOR1uF25WVDC1812Ceramic capacitorX4/X4/C5CAPACITOR1uF25WVDC1812Ceramic capacitor	
X4/X4/C4 CAPACITOR 1uF 25WVDC 1812 Ceramic capacitor X4/X4/C6 CAPACITOR 1uF 25WVDC 1812 Ceramic capacitor X4/X4/C5 CAPACITOR 1uF 25WVDC 1812 Ceramic capacitor	
X4/X4/C6 CAPACITOR 1uF 25WVDC 1812 Ceramic capacitor X4/X4/C5 CAPACITOR 1uF 25WVDC 1812 Ceramic capacitor	
X4/X4/C5 CAPACITOR 1uF 25WVDC 1812 Ceramic capacitor	
1A4/A4/R2 RESISION 5./4K 16 1/JUW U0U5 RESISION	
X4/X4/R1	
X4/X4/R1 RESISTOR 3.74k 1% 1/10W 0603 RESISTOR X4/X4/R7 RESISTOR 3.74k 1% 1/10W 0603 Resistor	
X4/X4/R6 RESISTOR 3.74k 1% 1/10W 0603 Resistor	
X4/X4/X2/Q1	sistor
(enhancement type)	IBIBCOI
X4/X4/X2/R6	
X4/X4/X2/R5	
X4/X4/X2/R4	
X4/X4/X2/R3 RESISTOR 3.74k 1% 1/10W 0603 Resistor	
X4/X4/X2/R7 RESISTOR 200 1% 1/10W 0603 Resistor	
X4/X4/X2/Q4 NPN_TRANSISTOR MMBT2222A unknown SOT23 unknown	
X4/X4/X2/Q3 PNP_TRANSISTOR MMBT2907A unknown SOT23 unknown	
X4/X4/X2/R2 RESISTOR 1 1% 1W 2512 Resistor	
X4/X4/X2/R1 RESISTOR 1 1% 1W 2512 Resistor	_
X4/X4/X2/Q2 NMOS_TRANSISTOR IRFR3410 unknown TO252AA generic N	channe
1 MOS transistor (enhancement type)	
X4/X4/X1/Q1 PMOS-S08 IRF9333 unknown S08 P channel MOS tran	ısıstor
(enhancement type)	
X4/X4/X1/R6 RESISTOR 3.74k 1% 1/10W 0603 Resistor X4/X4/X1/R5 RESISTOR 3.74k 1% 1/10W 0603 Resistor	
X4/X4/X1/R5	
X4/X4/X1/R3 RESISTOR 3.74k 1% 1/10W 0603 Resistor 1	
X4/X4/X1/R7 RESISTOR 200 1% 1/10W 0603 Resistor	
X4/X4/X1/Q4 NPN_TRANSISTOR MMBT2222A unknown SOT23 unknown	
X4/X4/X1/Q3 PNP_TRANSISTOR MMBT2907A unknown SOT23 unknown	
X4/X4/X1/R2 RESISTOR 1 1% 1W 2512 Resistor	
X4/X4/X1/R1 RESISTOR 1 1% 1W 2512 Resistor	
X4/X4/X1/Q2 NMOS_TRANSISTOR IRFR3410 unknown TO252AA generic N	channe
1 MOS transistor (enhancement type)	
X4/X4/R3	
X4/X4/R4 RESISTOR 100 1% 1/10W 0603 Resistor	
X4/X4/R5 RESISTOR 100 1% 1/10W 0603 Resistor	
X4/X4/U1 DG403 unknown unknown S016 Dual SPDT switch	
X4/X10/R22 RESISTOR 604k 1% 1/10W 0603 Resistor	
X4/X10/R21	
X4/X10/C10 CAPACITOR 1uF 25WVDC 1812 Ceramic capacitor	
X4/X10/C9 CAPACITOR 1uF 25WVDC 1812 Ceramic capacitor	

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X4/X10/C4	CAPACITOR	0.1uF	10WVDC 0603	Ceramic	capacitor
X4/X10/R20	RESISTOR	10	1% 1/10W	0603	Resistor
X4/X10/C8	CAPACITOR	1uF	25WVDC 1812	Ceramic	capacitor
X4/X10/R18	RESISTOR	10k	1% 1/10W	0603	Resistor
X4/X10/Q6	NPN_TRANSISTOR	MMBT222	2A unknown	SOT23	unknown
X4/X10/R19	RESISTOR	12.7	1% 1/10W	0603	Resistor
X4/X10/Q5	NPN_TRANSISTOR	MMBT222	2A unknown	SOT23	unknown
X4/X10/R16	RESISTOR	20k	1% 1/10W	0603	Resistor
X4/X10/R17	RESISTOR	499	1% 1/10W	0603	Resistor
X4/X10/Q4	PNP_TRANSISTOR	MMBT290	7A unknown		unknown
X4/X10/C7	CAPACITOR	0.1uF	10WVDC 0603	Ceramic	capacitor
X4/X10/R13	RESISTOR	1k	1% 1/10W	0603	Resistor
X4/X10/R14	RESISTOR	32.4k	1% 1/10W	0603	Resistor
X4/X10/C6	CAPACITOR	4.7pF	10WVDC 0603		capacitor
X4/X10/R15	RESISTOR	301k	1% 1/10W	0603	Resistor
X4/X10/R11	RESISTOR	10	1% 1/10W	0603	Resistor
X4/X10/C1	CAPACITOR	4.7pF	10WVDC 0603		capacitor
X4/X10/Q1	NPN_TRANSISTOR	MMBT222			unknown
X4/X10/R7	RESISTOR	499	1% 1/10W	0603	Resistor
X4/X10/R10	RESISTOR	49.9		0603	Resistor
X4/X10/C5	CAPACITOR	0.1uF	10WVDC 0603		capacitor
X4/X10/U1	DUAL_OPAMP	LM6142A	IM N/A	S08	attribute_confli
ct					
X4/X10/R8	RESISTOR	10k	1% 1/10W	0603	Resistor
X4/X10/R2	RESISTOR	26.7k	1% 1/10W	0603	Resistor
X4/X10/R1	RESISTOR	34.0k	1% 1/10W	0603	Resistor
X4/X10/C2	CAPACITOR	0.1uF	10WVDC 0603		capacitor
X4/X10/R3	RESISTOR	1k	1% 1/10W	0603	Resistor
X4/X10/R4	RESISTOR	32.4k	1% 1/10W	0603	Resistor
X4/X10/R5	RESISTOR	301k	1% 1/10W	0603	Resistor
X4/X10/R6	RESISTOR	20k	1% 1/10W	0603	Resistor
X4/X10/C3	CAPACITOR	luF	25WVDC 1812		capacitor
X4/X10/R9	RESISTOR	12.7	1% 1/10W	0603	Resistor
X4/X10/Q3	PNP_TRANSISTOR	MMBT290			unknown unknown
X4/X10/Q2 X4/X9/R9	PNP_TRANSISTOR RESISTOR	75	1% 1/10W	0603	Resistor
X4/X9/R9 X4/X9/R8	RESISTOR	75 75	1% 1/10W 1% 1/10W	0603	Resistor
X4/X9/R0 X4/X9/R7	RESISTOR	75 75	1% 1/10W 1% 1/10W	0603	Resistor
X4/X9/R6	RESISTOR	75 75	1% 1/10W 1% 1/10W	0603	Resistor
X4/X9/R0 X4/X9/R3	RESISTOR	100	1% 1/10W 1% 1/10W	0603	Resistor
X4/X9/R3 X4/X9/C3	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
r	CALACITOR	o.iur	25WVDC 2710	0003	cciamic capacito
X4/X9/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X4/X9/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r	01111011011	0.141	10,1,120 11,11	0005	ceramic capacite
X4/X9/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X4/X9/C1	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
r	0111110111	0 1 = 0.1			ociamic capacities
X4/X9/U1	DG403 unknown	unknown	SO16 Dual SP	DT switc	h
X4/X8/R9	RESISTOR	75	1% 1/10W	0603	Resistor
X4/X8/R8	RESISTOR	75	1% 1/10W	0603	Resistor
X4/X8/R7	RESISTOR	75	1% 1/10W	0603	Resistor
X4/X8/R6	RESISTOR	75	1% 1/10W	0603	Resistor
X4/X8/R3	RESISTOR	100	1% 1/10W	0603	Resistor
X4/X8/C3	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
r					-
X4/X8/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X4/X8/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r					-

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X4/X8/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X4/X8/C1	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
r X4/X8/U1	DG403 unknown	unknown	SO16 Dual SPI	OT gwitel	h
X4/X7/R9	RESISTOR	75	1% 1/10W	0603	Resistor
X4/X7/R8	RESISTOR	75	1% 1/10W	0603	Resistor
X4/X7/R7	RESISTOR	75	1% 1/10W	0603	Resistor
X4/X7/R6	RESISTOR	75	1% 1/10W	0603	Resistor
X4/X7/R3	RESISTOR	100	1% 1/10W	0603	Resistor
X4/X7/C3	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
r					
X4/X7/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X4/X7/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r X4/X7/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X4/X7/R3 X4/X7/C1	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
r	CAPACITOR	0.1ur	ZJWVDC X/K	0003	Ceramic Capacito
x4/x7/U1	DG403 unknown	unknown	SO16 Dual SPI	OT switc	h
X4/X6/R9	RESISTOR	75	1% 1/10W	0603	Resistor
X4/X6/R8	RESISTOR	75	1% 1/10W	0603	Resistor
X4/X6/R7	RESISTOR	75	1% 1/10W	0603	Resistor
X4/X6/R6	RESISTOR	75	1% 1/10W	0603	Resistor
X4/X6/R3	RESISTOR	100	1% 1/10W	0603	Resistor
X4/X6/C3	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
r X4/X6/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X4/X6/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r	CALACITOR	o.iur	IOWVDC X/IC	0005	ceramic capacito
X4/X6/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X4/X6/C1	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
r					
X4/X6/U1		unknown		OT switc	
X4/X5/R22	RESISTOR	604k	1% 1/10W	0603	Resistor
X4/X5/R21	RESISTOR	604k	1% 1/10W	0603	Resistor
X4/X5/C10	CAPACITOR	1uF	25WVDC 1812 25WVDC 1812		capacitor
X4/X5/C9 X4/X5/C4	CAPACITOR	1uF 0.1uF	25WVDC 1812 10WVDC 0603		capacitor
X4/X5/C4 X4/X5/R20	CAPACITOR RESISTOR	10	1% 1/10W	0603	capacitor Resistor
X4/X5/C8	CAPACITOR	luF	25WVDC 1812		capacitor
X4/X5/R18	RESISTOR	10k	1% 1/10W	0603	Resistor
X4/X5/Q6	NPN_TRANSISTOR	MMBT222			unknown
x4/x5/R19	RESISTOR	12.7	1% 1/10W	0603	Resistor
X4/X5/Q5	NPN_TRANSISTOR	MMBT222		SOT23	unknown
X4/X5/R16	RESISTOR	20k	1% 1/10W	0603	Resistor
X4/X5/R17	RESISTOR	499	1% 1/10W	0603	Resistor
X4/X5/Q4	PNP_TRANSISTOR	MMBT290			unknown
X4/X5/C7	CAPACITOR	0.1uF	10WVDC 0603		capacitor
X4/X5/R13	RESISTOR	1k	1% 1/10W	0603	Resistor
X4/X5/R14 X4/X5/C6	RESISTOR	32.4k	1% 1/10W	0603	Resistor
X4/X5/C6 X4/X5/R15	CAPACITOR RESISTOR	4.7pF 301k	10WVDC 0603 1% 1/10W	0603	capacitor Resistor
X4/X5/R15 X4/X5/R11	RESISTOR	10	1% 1/10W 1% 1/10W	0603	Resistor
X4/X5/R11 X4/X5/C1	CAPACITOR	4.7pF	10WVDC 0603		capacitor
X4/X5/Q1	NPN_TRANSISTOR	MMBT222			unknown
X4/X5/R7	RESISTOR	499	1% 1/10W	0603	Resistor
X4/X5/R10	RESISTOR	49.9	1% 1/10W	0603	Resistor
X4/X5/C5	CAPACITOR	0.1uF	10WVDC 0603		capacitor
X4/X5/U1	DUAL_OPAMP	LM6142A	IM N/A	S08	attribute_confli
ct					

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X4/X5/R8		RESISTOR	3	10k	1% 1/10V	M	0603	Resistor
X4/X5/R2		RESISTOR	3	26.7k	1% 1/10	W	0603	Resistor
X4/X5/R1		RESISTOR	5	34.0k	1% 1/10	M	0603	Resistor
X4/X5/C2		CAPACITO)R	0.1uF	10WVDC	0603	Ceramic	capacitor
X4/X5/R3		RESISTOR	5	1k	1% 1/10	M	0603	Resistor
X4/X5/R4		RESISTOR	5	32.4k	1% 1/10	M	0603	Resistor
X4/X5/R5		RESISTOR	5	301k	1% 1/10	M	0603	Resistor
X4/X5/R6		RESISTOR	3	20k	1% 1/10	M	0603	Resistor
X4/X5/C3		CAPACITO)R	1uF	25WVDC	1812	Ceramic	capacitor
X4/X5/R9		RESISTOR	3	12.7	1% 1/10	M	0603	Resistor
X4/X5/Q3		PNP_TRAN	NSISTOR	MMBT2907	7A	unknown	SOT23	unknown
X4/X5/Q2		PNP_TRAN	ISISTOR	MMBT2907	7A	unknown	SOT23	unknown
X4/X11/R	9	RESISTOR	5	75	1% 1/10	M	0603	Resistor
X4/X11/R	.8	RESISTOR	5	75	1% 1/10	M	0603	Resistor
X4/X11/R	.7	RESISTOR	5	75	1% 1/10	M	0603	Resistor
X4/X11/R	.6	RESISTOR	5	75	1% 1/10	M	0603	Resistor
X4/X11/R	.3	RESISTOR		100	1% 1/10	M	0603	Resistor
X4/X11/C		CAPACITO		0.1uF	25WVDC	X7R	0603	Ceramic capacito
r								-
X4/X11/R	4	RESISTOR	3	100	1% 1/10	M	0603	Resistor
X4/X11/C	2	CAPACITO)R	0.1uF	16WVDC	X7R	0603	Ceramic capacito
r								_
X4/X11/R	.5	RESISTOR	3	100	1% 1/10	M	0603	Resistor
X4/X11/C	1	CAPACITO)R	0.1uF	25WVDC	X7R	0603	Ceramic capacito
r			_	_		_		
X4/X11/U		DG403		unknown			OT switch	n
	RESISTOR		604k	1%	0603	Resistor		
	RESISTOR		56.2k	1%	0603	Resistor		
	RESISTOR		200k	1%	0603	Resistor		_
	CAPACITO		10pF	25WVDC X		0603		capacitor
	RESISTOR		49.9	1% 1/10W		0603	Resistor	
	CAPACITO		10nF					capacitor
	RESISTOR		49.9	1% 1/10W		0603	Resisto	
	CAPACITO		22nF	50WVDC >		0603		capacitor
	DUAL_OPA		LM6142A1		N/A	SO8		te_conflict
	RESISTOR		604k	1%	0603	Resistor		
	RESISTOR		56.2k	1%		Resistor		
	RESISTOR		200k	1%	0603	Resistor		
	CAPACITO		10pF	25WVDC X		0603		capacitor
	RESISTOR		49.9	1% 1/10W		0603	Resistor	
	CAPACITO		10nF	25WVDC 2		0603		capacitor
	RESISTOR		3.74k	1% 1/10V		0603	Resistor	
· ·	RESISTOR		3.74k	1% 1/10V		0603	Resistor	
	CAPACITO		0.1uF	10WVDC			capacito	
	RESISTOR		49.9	1% 1/10V		0603	Resistor	
	CAPACITO		0.1uF	10WVDC	0603		capacito	
· ·	CAPACITO			50WVDC 2		0603		capacitor
	MAX308CS			unknown		_	analog r	
	CAPACITO			50WVDC >		0603	Ceramic	capacitor
	AD5328			TSSOP16			00000	
X3/X1/Z1		ZENER_DI		BZV55-B3			SOD80C	
X3/X1/Z2		ZENER_DI		BZV55-B3			SOD80C	unknown
X3/X1/C1		CAPACITO		22nF	50WVDC	0603		capacitor
X3/X1/C1		CAPACITO		22nF	50WVDC	0603		capacitor
X3/X1/C2		CAPACITO		22nF	50WVDC	0603		capacitor
X3/X1/C1		CAPACITO		1uF	25WVDC	1812		capacitor
X3/X1/C1		CAPACITO		1uF	25WVDC	1812		capacitor
X3/X1/R2		RESISTOR		604k	1% 1/10		0603	Resistor
X3/X1/R1	U	RESISTOR	ζ	604k	1% 1/10	W	0603	Resistor

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x3/x1/C1	CAPACITOR	22nF	50WVDC 0603	Ceramic capacitor
X3/X1/R18	RESISTOR	10	1% 1W 2512	Resistor
X3/X1/C9	CAPACITOR	1uF	25WVDC 1812	Ceramic capacitor
X3/X1/R12	RESISTOR	33.2k	1% 1/10W	0603 Resistor
X3/X1/Q2	LM395T unknown			
X3/X1/C7	CAPACITOR	47pF	50WVDC 0603	Ceramic capacitor
X3/X1/R16	RESISTOR	4.99k	1% 1/10W	0603 Resistor
X3/X1/Q3	PNP_TRANSISTOR	MMBT290	7A unkno	wn SOT23 unknown
X3/X1/R8	RESISTOR	10	1% 1W 2512	Resistor
X3/X1/C8	CAPACITOR	1uF	25WVDC 1812	Ceramic capacitor
X3/X1/R2	RESISTOR	301k	1% 1/10W	0603 Resistor
X3/X1/C6	CAPACITOR	330pF	50WVDC 0603	Ceramic capacitor
X3/X1/R6	RESISTOR	10k	1% 1/10W	0603 Resistor
X3/X1/Q1	LM395T unknown			
X3/X1/R17	RESISTOR	10k	1% 1/10W	0603 Resistor
X3/X1/R7	RESISTOR	10k	1% 1/10W	0603 Resistor
X3/X1/C5	CAPACITOR	330pF	50WVDC 0603	Ceramic capacitor
X3/X1/C4	CAPACITOR	22nF	50WVDC 0603	Ceramic capacitor
X3/X1/C3	CAPACITOR	22nF	50WVDC 0603	Ceramic capacitor
X3/X1/R15	RESISTOR	10k	1% 1/10W	0603 Resistor
X3/X1/R5	RESISTOR	10k 60.4k	1% 1/10W	0603 Resistor
X3/X1/R11	RESISTOR RESISTOR	75k	1% 1/10W 1% 1/10W	0603 Resistor 0603 Resistor
X3/X1/R13 X3/X1/R14	RESISTOR	75k 301k	1% 1/10W 1% 1/10W	0603 Resistor
X3/X1/K14 X3/X1/U2	DUAL_OPAMP	LM6142A		SO8 attribute_confli
ct	DOAL_OF AME	LMOITZA.	LII IN/A	500 accidace_comit
X3/X1/R1	RESISTOR	54.9k	1% 1/10W	0603 Resistor
X3/X1/R3	RESISTOR	54.9k	1% 1/10W	0603 Resistor
X3/X1/R4	RESISTOR	301k	1% 1/10W	0603 Resistor
X3/X1/U1	DUAL_OPAMP	LM6142A		SO8 attribute_confli
ct	_			_
X3/X2/C3	CAPACITOR	22nF	50WVDC 0603	Ceramic capacitor
X3/X2/C2	CAPACITOR	22nF	50WVDC 0603	Ceramic capacitor
X3/X2/C1	CAPACITOR	22nF	50WVDC 0603	Ceramic capacitor
X3/X2/C7	CAPACITOR	1uF	25WVDC 1812	Ceramic capacitor
X3/X2/C4	CAPACITOR	1uF	25WVDC 1812	Ceramic capacitor
X3/X2/C6	CAPACITOR	1uF	25WVDC 1812	Ceramic capacitor
X3/X2/C5	CAPACITOR	1uF	25WVDC 1812	Ceramic capacitor
X3/X2/R2	RESISTOR	3.74k	1% 1/10W	0603 Resistor
X3/X2/R1	RESISTOR	3.74k	1% 1/10W	0603 Resistor
X3/X2/R7	RESISTOR	3.74k	1% 1/10W	0603 Resistor
X3/X2/R6 X3/X2/X2/Q1	RESISTOR PMOS-SO8	3.74k	1% 1/10W unknown SO8	0603 Resistor P channel MOS transistor
(enhancement		TKL 2333	CITATIONII 200	r chainter MOS cransistor
X3/X2/X2/R6	RESISTOR	3.74k	1% 1/10W	0603 Resistor
X3/X2/X2/R5	RESISTOR	3.74k	1% 1/10W	0603 Resistor
X3/X2/X2/R4	RESISTOR	3.74k	1% 1/10W	0603 Resistor
X3/X2/X2/R3	RESISTOR	3.74k	1% 1/10W	0603 Resistor
X3/X2/X2/R7	RESISTOR	200	1% 1/10W	0603 Resistor
X3/X2/X2/Q4	NPN_TRANSISTOR	MMBT222		wn SOT23 unknown
X3/X2/X2/Q3	PNP_TRANSISTOR	MMBT290		wn SOT23 unknown
X3/X2/X2/R2	RESISTOR	1	1% 1W 2512	Resistor
X3/X2/X2/R1	RESISTOR	1	1% 1W 2512	Resistor
X3/X2/X2/Q2	NMOS_TRANSISTOR		unkno unkno	wn TO252AA generic N channe
	or (enhancement ty		_	
X3/X2/X1/Q1	PMOS-SO8	IRF9333	unknown SO8	P channel MOS transistor
(enhancement		2 541	10 1/10	0.603
X3/X2/X1/R6	RESISTOR	3.74k	1% 1/10W	0603 Resistor
X3/X2/X1/R5	RESISTOR	3.74k	1% 1/10W	0603 Resistor

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X3/X2/X1/R4	RESISTOR	3.74k	1% 1/10	W	0603	Resistor
X3/X2/X1/R3	RESISTOR	3.74k	1% 1/10		0603	Resistor
X3/X2/X1/R7	RESISTOR	200	1% 1/10		0603	Resistor
X3/X2/X1/Q4	NPN_TRANSISTOR				SOT23	unknown
x3/x2/x1/Q3	PNP_TRANSISTOR	MMBT290		unknown		unknown
X3/X2/X1/R2	RESISTOR	1		2512	Resisto	
X3/X2/X1/R1	RESISTOR	1		2512	Resisto	r
X3/X2/X1/Q2	NMOS_TRANSISTOR	IRFR341		unknown	TO252AA	generic N channe
	r (enhancement ty					
X3/X2/R3	RESISTOR	100	1% 1/10		0603	Resistor
X3/X2/R4	RESISTOR	100	1% 1/10		0603	Resistor
X3/X2/R5	RESISTOR	100	1% 1/10		0603	Resistor
X3/X2/U1	DG403 unknown				DT switc	
X3/X3/C3	CAPACITOR	22nF	50WVDC	0603		capacitor
X3/X3/C2	CAPACITOR	22nF	50WVDC	0603		capacitor
X3/X3/C1	CAPACITOR	22nF	50WVDC			capacitor
X3/X3/C7	CAPACITOR	luF	25WVDC			capacitor
X3/X3/C4	CAPACITOR	luF	25WVDC			capacitor
X3/X3/C6	CAPACITOR	1uF 1uF	25WVDC	1812 1812		capacitor
X3/X3/C5 X3/X3/R2	CAPACITOR RESISTOR	1ur 3.74k	25WVDC 1% 1/10		0603	capacitor Resistor
X3/X3/R2 X3/X3/R1	RESISTOR	3.74k 3.74k	1% 1/10		0603	
X3/X3/R1 X3/X3/R7	RESISTOR	3.74k	1% 1/10		0603	Resistor
X3/X3/R6	RESISTOR	3.74k	1% 1/10		0603	Resistor
X3/X3/X0 X3/X3/X2/Q1	PMOS-SO8		unknown			el MOS transistor
(enhancement t		11(1) 3 3 3	ammown	500	i Ciidiiii	er Mob cranbibeor
X3/X3/X2/R6		3.74k	1% 1/10	W	0603	Resistor
X3/X3/X2/R5	RESISTOR	3.74k	1% 1/10		0603	Resistor
X3/X3/X2/R4	RESISTOR	3.74k	1% 1/10		0603	Resistor
X3/X3/X2/R3	RESISTOR	3.74k	1% 1/10		0603	Resistor
X3/X3/X2/R7	RESISTOR	200	1% 1/10		0603	Resistor
X3/X3/X2/Q4	NPN_TRANSISTOR	MMBT222		unknown	SOT23	unknown
X3/X3/X2/Q3	PNP_TRANSISTOR	MMBT290	7A	unknown	SOT23	unknown
X3/X3/X2/R2	RESISTOR	1		2512	Resisto	r
X3/X3/X2/R1	RESISTOR	1	1% 1W	2512	Resisto	
X3/X3/X2/Q2	NMOS_TRANSISTOR	IRFR341	0	unknown	TO252AA	generic N channe
	r (enhancement ty		_		_	_
X3/X3/X1/Q1	PMOS-SO8	IRF9333	unknown	S08	P channe	el MOS transistor
(enhancement t		0 541			0.500	
X3/X3/X1/R6	RESISTOR	3.74k	1% 1/10		0603	Resistor
X3/X3/X1/R5	RESISTOR	3.74k	1% 1/10		0603	Resistor
X3/X3/X1/R4	RESISTOR	3.74k	1% 1/10		0603	Resistor
X3/X3/X1/R3	RESISTOR	3.74k 200	1% 1/10		0603	Resistor
X3/X3/X1/R7	RESISTOR		1% 1/10		0603	Resistor
X3/X3/X1/Q4 X3/X3/X1/Q3	NPN_TRANSISTOR PNP_TRANSISTOR	MMBT222:		unknown	SOT23	unknown unknown
X3/X3/X1/Q3 X3/X3/X1/R2	RESISTOR	MMB1290	7A 1% 1W	2512	Resisto:	
X3/X3/X1/R2 X3/X3/X1/R1	RESISTOR RESISTOR	1	1% 1W 1% 1W	2512	Resisto:	
X3/X3/X1/R1 X3/X3/X1/Q2	NMOS_TRANSISTOR					generic N channe
	r (enhancement ty		•	WIII/IIIO WII	IOZJZAA	action to thating
X3/X3/R3	RESISTOR	100	1% 1/10	W	0603	Resistor
X3/X3/R4	RESISTOR	100	1% 1/10		0603	Resistor
X3/X3/R5	RESISTOR	100	1% 1/10		0603	Resistor
X3/X3/U1		unknown			DT switc	
X3/X4/C3	CAPACITOR	22nF	50WVDC	0603		capacitor
X3/X4/C2	CAPACITOR	22nF	50WVDC	0603		capacitor
X3/X4/C1	CAPACITOR	22nF	50WVDC	0603		capacitor
X3/X4/C7	CAPACITOR	1uF	25WVDC	1812		capacitor
X3/X4/C4	CAPACITOR	1uF	25WVDC	1812		capacitor

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X3/X4/C6	CAPACITOR	1uF		1812		capacitor
X3/X4/C5	CAPACITOR	luF		1812		capacitor
X3/X4/R2	RESISTOR	3.74k	1% 1/10W		0603	Resistor
X3/X4/R1	RESISTOR	3.74k	1% 1/10W		0603	Resistor
X3/X4/R7	RESISTOR	3.74k	1% 1/10W		0603	Resistor
X3/X4/R6	RESISTOR	3.74k	1% 1/10W		0603	Resistor
X3/X4/X2/Q1	PMOS-SO8	IRF9333	unknown	S08	P channe	el MOS transistor
(enhancement t		2 541	10 1/10-	_	0.600	
X3/X4/X2/R6	RESISTOR	3.74k	1% 1/10V		0603	Resistor
X3/X4/X2/R5	RESISTOR		1% 1/10V		0603	Resistor
X3/X4/X2/R4	RESISTOR		1% 1/10V		0603	Resistor
X3/X4/X2/R3	RESISTOR	3.74k	1% 1/10V		0603	Resistor
X3/X4/X2/R7	RESISTOR	200	1% 1/10V		0603	Resistor
X3/X4/X2/Q4	NPN_TRANSISTOR	MMBT2222		unknown		unknown
X3/X4/X2/Q3	PNP_TRANSISTOR	MMBT290		unknown	Resisto	unknown
X3/X4/X2/R2 X3/X4/X2/R1	RESISTOR RESISTOR	1		2512 2512	Resisto	
X3/X4/X2/R1 X3/X4/X2/Q2	NMOS_TRANSISTOR					generic N channe
	r (enhancement ty		0	ulikilowii	10232AA	generic N Chaine
$\frac{1}{3}$ MOS CLARSISCO.	PMOS-SO8		unknown	SO8	P channa	el MOS transistor
(enhancement t		III / / / / /	WIIIZIIO MII		- CHAILL	CI MOD CIGIDIBUDIO
x3/x4/x1/R6	RESISTOR	3.74k	1% 1/10W	J	0603	Resistor
X3/X4/X1/R5	RESISTOR	3.74k	1% 1/10V		0603	Resistor
X3/X4/X1/R4	RESISTOR	3.74k	1% 1/10V		0603	Resistor
X3/X4/X1/R3	RESISTOR	3.74k	1% 1/10W		0603	Resistor
X3/X4/X1/R7	RESISTOR	200	1% 1/10W		0603	Resistor
X3/X4/X1/Q4	NPN_TRANSISTOR	MMBT2222		unknown		unknown
X3/X4/X1/Q3	PNP_TRANSISTOR	MMBT290		unknown		unknown
X3/X4/X1/R2	RESISTOR	1		2512	Resistor	
X3/X4/X1/R1	RESISTOR	1	1% 1W	2512	Resistor	
X3/X4/X1/Q2	NMOS_TRANSISTOR	IRFR3410	O	unknown	TO252AA	generic N channe
1 MOS transisto	r (enhancement ty					
X3/X4/R3	RESISTOR	100	1% 1/10W		0603	Resistor
X3/X4/R4	RESISTOR	100	1% 1/10V		0603	
X3/X4/R5	RESISTOR	100	1% 1/10W		0603	Resistor
X3/X4/U1		unknown			OT switch	
X3/X10/R22	RESISTOR	604k	1% 1/10W		0603	Resistor
X3/X10/R21	RESISTOR	604k	1% 1/10W		0603	Resistor
X3/X10/C10	CAPACITOR	1uF	25WVDC	1812		capacitor
X3/X10/C9	CAPACITOR	1uF		1812		capacitor
X3/X10/C4	CAPACITOR	0.1uF	10WVDC	0603		capacitor
X3/X10/R20	RESISTOR	10	1% 1/10V		0603	Resistor
X3/X10/C8	CAPACITOR	1uF		1812		capacitor
X3/X10/R18 X3/X10/Q6	RESISTOR	10k MMBT2222	1% 1/10V	unknown	0603	Resistor unknown
X3/X10/Q0 X3/X10/R19	NPN_TRANSISTOR RESISTOR	12.7	∠A 1% 1/10W		0603	Resistor
X3/X10/R19 X3/X10/Q5	NPN TRANSISTOR	MMBT2222		unknown		unknown
X3/X10/Q3 X3/X10/R16	RESISTOR	20k	∠A 1% 1/10W		0603	Resistor
X3/X10/R10 X3/X10/R17	RESISTOR	499	1% 1/10V		0603	Resistor
x3/x10/Q4	PNP_TRANSISTOR	MMBT290		unknown		unknown
X3/X10/Q4 X3/X10/C7	CAPACITOR	0.1uF	10WVDC	0603		capacitor
X3/X10/C7 X3/X10/R13	RESISTOR	1k	1% 1/10W		0603	Resistor
X3/X10/R14	RESISTOR	32.4k	1% 1/10V		0603	Resistor
X3/X10/C6	CAPACITOR	4.7pF	10WVDC			capacitor
X3/X10/R15	RESISTOR	301k	1% 1/10W		0603	Resistor
X3/X10/R11	RESISTOR	10	1% 1/10W		0603	Resistor
X3/X10/C1	CAPACITOR	4.7pF		0603		capacitor
X3/X10/Q1	NPN_TRANSISTOR	MMBT2222		unknown		unknown
X3/X10/R7	RESISTOR	499	1% 1/10W		0603	Resistor
1						

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X3/X10/R10	RESISTOR	49.9	1% 1/10W	0603	Resistor
X3/X10/C5	CAPACITOR	0.1uF	10WVDC 0603		capacitor
X3/X10/U1	DUAL_OPAMP	LM6142A		S08	attribute_confli
ct			11, 11	200	
X3/X10/R8	RESISTOR	10k	1% 1/10W	0603	Resistor
X3/X10/R2	RESISTOR	26.7k	1% 1/10W	0603	Resistor
X3/X10/R1	RESISTOR	34.0k	1% 1/10W	0603	Resistor
X3/X10/C2	CAPACITOR	0.1uF	10WVDC 0603		capacitor
X3/X10/R3	RESISTOR	1k	1% 1/10W	0603	Resistor
X3/X10/R4	RESISTOR	32.4k	1% 1/10W	0603	Resistor
X3/X10/R5	RESISTOR	301k	1% 1/10W	0603	Resistor
X3/X10/R6	RESISTOR	20k	1% 1/10W	0603	Resistor
X3/X10/C3	CAPACITOR	1uF	25WVDC 1812		capacitor
X3/X10/R9	RESISTOR	12.7	1% 1/10W	0603	Resistor
X3/X10/Q3	PNP_TRANSISTOR	MMBT290			unknown
X3/X10/Q2	PNP_TRANSISTOR	MMBT290		SOT23	unknown
X3/X9/R9	RESISTOR	75	1% 1/10W	0603	Resistor
X3/X9/R8	RESISTOR	75	1% 1/10W	0603	Resistor
X3/X9/R7	RESISTOR	75	1% 1/10W	0603	Resistor
X3/X9/R6	RESISTOR	75	1% 1/10W	0603	Resistor
X3/X9/R3	RESISTOR	100	1% 1/10W	0603	Resistor
X3/X9/C3	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
r	D D G T G T O D	100	10 1/10**	0.602	5
X3/X9/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X3/X9/C2 r	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
X3/X9/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X3/X9/C1	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
r X3/X9/U1	DG403 unknown	unknown	SO16 Dual SPI	OT switc	h
X3/X8/R9	RESISTOR	75	1% 1/10W	0603	Resistor
X3/X8/R8	RESISTOR	75	1% 1/10W	0603	Resistor
X3/X8/R7	RESISTOR	75	1% 1/10W	0603	Resistor
X3/X8/R6	RESISTOR	75	1% 1/10W	0603	Resistor
X3/X8/R3	RESISTOR	100	1% 1/10W	0603	Resistor
X3/X8/C3	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
r	D=3-3-0-	100	10 1/10	0.600	
X3/X8/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X3/X8/C2 r	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
X3/X8/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X3/X8/C1	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
r					
X3/X8/U1	DG403 unknown	unknown	SO16 Dual SPI	OT switc	h l
X3/X7/R9	RESISTOR	75	1% 1/10W	0603	Resistor
X3/X7/R8	RESISTOR	75	1% 1/10W	0603	Resistor
X3/X7/R7	RESISTOR	75	1% 1/10W	0603	Resistor
X3/X7/R6	RESISTOR	75	1% 1/10W	0603	Resistor
X3/X7/R3	RESISTOR	100	1% 1/10W	0603	Resistor
X3/X7/C3	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
r X3/X7/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X3/X7/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r					_
X3/X7/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X3/X7/C1 r	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
x3/x7/U1	DG403 unknown	unknown	SO16 Dual SPI	OT swite	h
X3/X6/R9	RESISTOR	75	1% 1/10W	0603	Resistor
AO/FO	111010101	, 5			1001001

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X3/X6/R8	RESISTOR	75	1% 1/10W	0603	Resistor
X3/X6/R7	RESISTOR	75	1% 1/10W	0603	Resistor
X3/X6/R6	RESISTOR	75	1% 1/10W	0603	Resistor
X3/X6/R3	RESISTOR	100	1% 1/10W	0603	Resistor
X3/X6/C3	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
x3/X6/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X3/X6/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r	CHILICITOR	0.141	10WVDC 21710	0005	ceramic capacito
X3/X6/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X3/X6/C1	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
r X3/X6/U1	DG403 unknown	unknown	SO16 Dual SPI	T awital	h
X3/X5/R22	RESISTOR	604k	1% 1/10W	0603	Resistor
X3/X5/R21	RESISTOR	604k	1% 1/10W	0603	Resistor
X3/X5/C10	CAPACITOR	1uF	25WVDC 1812		capacitor
X3/X5/C10 X3/X5/C9	CAPACITOR	1uF	25WVDC 1812		capacitor
X3/X5/C4	CAPACITOR	0.1uF	10WVDC 0603		capacitor
X3/X5/C4 X3/X5/R20	RESISTOR	10	1% 1/10W	0603	Resistor
X3/X5/C8	CAPACITOR	1uF	25WVDC 1812		capacitor
X3/X5/R18	RESISTOR	10k	1% 1/10W	0603	Resistor
X3/X5/Q6	NPN_TRANSISTOR	MMBT222			unknown
X3/X5/R19	RESISTOR	12.7	1% 1/10W	0603	Resistor
X3/X5/Q5	NPN_TRANSISTOR	MMBT222			unknown
X3/X5/R16	RESISTOR	20k	1% 1/10W	0603	Resistor
X3/X5/R17	RESISTOR	499	1% 1/10W	0603	Resistor
X3/X5/Q4	PNP_TRANSISTOR	MMBT290			unknown
X3/X5/C7	CAPACITOR	0.1uF	10WVDC 0603		capacitor
X3/X5/R13	RESISTOR	1k	1% 1/10W	0603	Resistor
X3/X5/R14	RESISTOR	32.4k	1% 1/10W	0603	Resistor
X3/X5/C6	CAPACITOR	4.7pF	10WVDC 0603		capacitor
X3/X5/R15	RESISTOR	301k	1% 1/10W	0603	Resistor
X3/X5/R11	RESISTOR	10	1% 1/10W	0603	Resistor
X3/X5/C1	CAPACITOR	4.7pF	10WVDC 0603		capacitor
X3/X5/Q1	NPN_TRANSISTOR	MMBT222			unknown
X3/X5/R7	RESISTOR	499	1% 1/10W	0603	Resistor
X3/X5/R10	RESISTOR	49.9	1% 1/10W	0603	Resistor
X3/X5/C5	CAPACITOR	0.1uF	10WVDC 0603		capacitor
X3/X5/U1	DUAL_OPAMP	LM6142A		SO8	attribute_confli
ct	_				_
X3/X5/R8	RESISTOR	10k	1% 1/10W	0603	Resistor
X3/X5/R2	RESISTOR	26.7k	1% 1/10W	0603	Resistor
X3/X5/R1	RESISTOR	34.0k	1% 1/10W	0603	Resistor
X3/X5/C2	CAPACITOR	0.1uF	10WVDC 0603		capacitor
X3/X5/R3	RESISTOR	1k	1% 1/10W	0603	Resistor
X3/X5/R4	RESISTOR	32.4k	1% 1/10W	0603	Resistor
X3/X5/R5	RESISTOR	301k	1% 1/10W	0603	Resistor
X3/X5/R6	RESISTOR	20k	1% 1/10W	0603	Resistor
X3/X5/C3	CAPACITOR	1uF	25WVDC 1812		capacitor
X3/X5/R9	RESISTOR	12.7	1% 1/10W	0603	Resistor
X3/X5/Q3	PNP_TRANSISTOR	MMBT290			unknown
X3/X5/Q2	PNP_TRANSISTOR	MMBT290			unknown
X3/X11/R9	RESISTOR	75	1% 1/10W	0603	Resistor
X3/X11/R8	RESISTOR	75	1% 1/10W	0603	Resistor
X3/X11/R7	RESISTOR	75	1% 1/10W	0603	Resistor
X3/X11/R6	RESISTOR	75	1% 1/10W	0603	Resistor
X3/X11/R3	RESISTOR	100	1% 1/10W	0603	Resistor
X3/X11/C3	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
r					

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X3/X11/E	R 4	RESISTO	₹	100	1% 1/10)W	0603	Resistor
X3/X11/0		CAPACITO		0.1uF	16WVDC		0603	Ceramic capacito
x3/X11/E	o 5	RESISTO	>	100	1% 1/10) TAT	0603	Resistor
X3/X11/1 X3/X11/0		CAPACIT(0.1uF	25WVDC		0603	Ceramic capacito
r	∵ ⊥	CAPACII	JK	U.Iur	ZJWVDC	A/K	0003	Ceramic Capacito
x3/x11/t	т1	DG403	unknown	unknown	9016	ומס ובנות	OT switch	h
X3/R11/0	RESISTO		604k	1%	0603	Resisto		.1
X3/R3 X3/R1	RESISTO		56.2k	1%	0603	Resisto		
X3/R1 X3/R2	RESISTO		200k	1%	0603	Resisto		
X3/K2 X3/C4	CAPACIT		10pF	25WVDC		0603		capacitor
X3/R8	RESISTO		49.9	1% 1/10V		0603	Resisto	
X3/C5	CAPACIT		10nF	25WVDC 2		0603		capacitor
X3/R6	RESISTO		49.9	1% 1/10		0603 0603 0603	Resisto	
X3/C3	CAPACIT		22nF	50WVDC		0603		capacitor
X3/U1	DUAL_OP		LM6142A		N/A	S08		te_conflict
X3/R7	RESISTO		604k	1%	0603	Resisto		
X3/R3	RESISTO		56.2k	1%	0603	Resisto		
X3/R4	RESISTO		200k	1%	0603	Resisto		
	CAPACIT		10pF	25WVDC		0603		capacitor
X3/R5	RESISTO	R	49.9	1% 1/10		0603	Resisto	
X3/C2	CAPACIT	OR	10nF	25WVDC 2	X7R	0603	Ceramic	capacitor
X2/R12	RESISTO	R	3.74k	1% 1/10	N	0603	Resisto	r
X2/R11	RESISTO	R	3.74k	1% 1/10		0603	Resisto	
X2/C7	CAPACIT		0.1uF	10WVDC			capacito	
	RESISTO		49.9	1% 1/10		0603	Resisto	
X2/C6	CAPACIT		0.1uF	10WVDC			capacito	
	CAPACITO			50WVDC		0603		capacitor
	MAX308C		unknown				analog r	
	CAPACITO			50WVDC		0603	Ceramic	capacitor
			unknown	BZV55-B			SOD80C	
X2/X1/Z2 X2/X1/Z2		ZENER_D		BZV55-B.			SOD80C	
	z 11	_		22nF		0603		capacitor
X2/X1/C1		CAPACITO		22nF	50WVDC	0603		capacitor
X2/X1/C2		CAPACITO		22nF	50WVDC	0603		capacitor
X2/X1/C		CAPACITO		luF	25WVDC			capacitor
X2/X1/C		CAPACITO		1uF	25WVDC	1812		capacitor
X2/X1/R2		RESISTO		604k	1% 1/10		0603	Resistor
X2/X1/R3		RESISTO		604k	1% 1/10	W	0603	Resistor
X2/X1/C	1	CAPACITO	OR	22nF	50WVDC	0603	Ceramic	capacitor
X2/X1/R3		RESISTO		10	1% 1W	2512	Resisto	
X2/X1/C9		CAPACITO		1uF	25WVDC	1812		capacitor
X2/X1/R1		RESISTOR		33.2k	1% 1/10		0603	Resistor
X2/X1/Q2			unknown			unknown	G '	
X2/X1/C		CAPACITO		47pF	50WVDC	0603		capacitor
X2/X1/R3		RESISTO		4.99k	1% 1/10		0603	Resistor
X2/X1/Q3		PNP_TRAI		MMBT290	/A 1% 1W	unknown 2512	Resistor	unknown
X2/X1/R8 X2/X1/C8		RESISTOR CAPACITO		1uF	25WVDC	1812		capacitor
X2/X1/C6		RESISTO		301k	1% 1/10		0603	Resistor
X2/X1/K2 X2/X1/C6		CAPACIT(330pF		0603		capacitor
X2/X1/R6		RESISTO		10k	1% 1/10		0603	Resistor
X2/X1/Q1			unknown			unknown		
X2/X1/R3		RESISTO		10k	1% 1/10		0603	Resistor
X2/X1/R		RESISTO		10k	1% 1/10		0603	Resistor
X2/X1/C		CAPACITO		330pF	50WVDC	0603		capacitor
X2/X1/C4	4	CAPACITO	OR	22nF	50WVDC	0603	Ceramic	capacitor
X2/X1/C3	3	CAPACITO	OR	22nF	50WVDC	0603	Ceramic	capacitor
L								

		luction C	!	11		
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X2/X1/R15	RESISTOR	10k	1% 1/10		0603	Resistor
X2/X1/R5	RESISTOR	10k	1% 1/10		0603	Resistor
X2/X1/R11	RESISTOR	60.4k	1% 1/10		0603	Resistor
X2/X1/R13	RESISTOR	75k	1% 1/10	W	0603	Resistor
X2/X1/R14	RESISTOR	301k	1% 1/10	W	0603	Resistor
X2/X1/U2	DUAL_OPAMP	LM6142A	IM	N/A	S08	attribute_confli
ct						
X2/X1/R1	RESISTOR	54.9k	1% 1/10	W	0603	Resistor
X2/X1/R3	RESISTOR	54.9k	1% 1/10	W	0603	Resistor
X2/X1/R4	RESISTOR	301k	1% 1/10	W	0603	Resistor
X2/X1/U1	DUAL_OPAMP	LM6142A	IM	N/A	S08	attribute_confli
ct						
X2/X2/C3	CAPACITOR	22nF	50WVDC	0603	Ceramic	capacitor
X2/X2/C2	CAPACITOR	22nF	50WVDC	0603		capacitor
X2/X2/C1	CAPACITOR	22nF	50WVDC	0603		capacitor
X2/X2/C7	CAPACITOR	1uF	25WVDC	1812		capacitor
X2/X2/C4	CAPACITOR	1uF	25WVDC	1812		capacitor
X2/X2/C6	CAPACITOR	1uF	25WVDC	1812		capacitor
X2/X2/C5	CAPACITOR	1uF	25WVDC	1812		capacitor
X2/X2/R2	RESISTOR	3.74k	1% 1/10	W	0603	Resistor
X2/X2/R1	RESISTOR	3.74k	1% 1/10		0603	Resistor
X2/X2/R7	RESISTOR	3.74k	1% 1/10		0603	Resistor
X2/X2/R6	RESISTOR	3.74k	1% 1/10		0603	Resistor
X2/X2/X2/Q1	PMOS-SO8		unknown			el MOS transistor
(enhancement						
X2/X2/X2/R6	RESISTOR	3.74k	1% 1/10	W	0603	Resistor
X2/X2/X2/R5	RESISTOR	3.74k	1% 1/10		0603	Resistor
X2/X2/X2/R4	RESISTOR	3.74k	1% 1/10		0603	Resistor
X2/X2/X2/R3	RESISTOR	3.74k	1% 1/10		0603	Resistor
X2/X2/X2/R7	RESISTOR	200	1% 1/10		0603	Resistor
X2/X2/X2/Q4	NPN_TRANSISTOR	MMBT222		unknown		unknown
X2/X2/X2/Q3	PNP_TRANSISTOR	MMBT290		unknown		unknown
X2/X2/X2/R2	RESISTOR	1	1% 1W	2512	Resisto	
X2/X2/X2/R1	RESISTOR	1	1% 1W	2512	Resisto	
X2/X2/X2/Q2	NMOS_TRANSISTOR					generic N channe
	or (enhancement t			GIIIIII WII	10232111	generro n oname
X2/X2/X1/Q1	PMOS-SO8		unknown	SO8	P channe	el MOS transistor
(enhancement		1111 7 3 3 3	GIIIIIO WII	200		
X2/X2/X1/R6	RESISTOR	3.74k	1% 1/10	W	0603	Resistor
X2/X2/X1/R5	RESISTOR	3.74k	1% 1/10		0603	Resistor
X2/X2/X1/R4	RESISTOR	3.74k	1% 1/10		0603	Resistor
X2/X2/X1/R3	RESISTOR	3.74k	1% 1/10		0603	Resistor
X2/X2/X1/R7	RESISTOR	200	1% 1/10		0603	Resistor
X2/X2/X1/R7 X2/X2/X1/Q4	NPN_TRANSISTOR	MMBT222		unknown		unknown
X2/X2/X1/Q4 X2/X2/X1/Q3	PNP_TRANSISTOR	MMBT290		unknown		unknown
X2/X2/X1/R2	RESISTOR	1	1% 1W	2512	Resisto	
X2/X2/X1/R2 X2/X2/X1/R1	RESISTOR	1	1% 1W	2512	Resisto	
X2/X2/X1/X1 X2/X2/X1/Q2	NMOS_TRANSISTOR					generic N channe
	or (enhancement t		~	WIII TIIO WII	102021111	JOHN CHAINE
X2/X2/R3	RESISTOR	100	1% 1/10	W	0603	Resistor
X2/X2/R3 X2/X2/R4	RESISTOR	100	1% 1/10		0603	Resistor
X2/X2/R4 X2/X2/R5	RESISTOR	100	1% 1/10		0603	Resistor
X2/X2/U1		unknown			OT switc	
X2/X3/C3	CAPACITOR	22nF	50WVDC	0603		capacitor
X2/X3/C3 X2/X3/C2	CAPACITOR	22nF	50WVDC	0603		capacitor
X2/X3/C2 X2/X3/C1	CAPACITOR	22nF	50WVDC	0603		capacitor
X2/X3/C1 X2/X3/C7	CAPACITOR	1uF	25WVDC	1812		capacitor
x2/x3/C1 x2/x3/C4	CAPACITOR	luF 1uF	25WVDC 25WVDC	1812		capacitor
X2/X3/C4 X2/X3/C6	CAPACITOR	luF 1uF	25WVDC 25WVDC	1812		capacitor
ΔΔ/Δ3/C0	CAFACTION	тиг		T O T Z	CETAIIITC	Capacitor

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X2/X3/C5	CAPACITOR	1uF	25WVDC	1812	Ceramic	capacitor
X2/X3/R2	RESISTOR	3.74k	1% 1/10	M	0603	Resistor
X2/X3/R1	RESISTOR	3.74k	1% 1/10	N	0603	Resistor
X2/X3/R7	RESISTOR	3.74k	1% 1/10	M	0603	Resistor
X2/X3/R6	RESISTOR	3.74k	1% 1/10		0603	Resistor
X2/X3/X2/Q1	PMOS-SO8		unknown		P channe	el MOS transistor
(enhancement t	ype)					
X2/X3/X2/R6	RESISTOR	3.74k	1% 1/10	M	0603	Resistor
X2/X3/X2/R5	RESISTOR	3.74k	1% 1/10		0603	Resistor
X2/X3/X2/R4	RESISTOR	3.74k	1% 1/10		0603	Resistor
X2/X3/X2/R3	RESISTOR	3.74k	1% 1/10		0603	Resistor
X2/X3/X2/R7	RESISTOR	200	1% 1/10		0603	Resistor
X2/X3/X2/Q4	NPN_TRANSISTOR			unknown		unknown
X2/X3/X2/Q3	PNP_TRANSISTOR	MMBT290		unknown		unknown
X2/X3/X2/R2	RESISTOR	1		2512	Resisto	
X2/X3/X2/R1	RESISTOR	1		2512	Resisto	
X2/X3/X2/Q2	NMOS_TRANSISTOR	IRFR341				generic N channe
	or (enhancement ty					3
X2/X3/X1/Q1	PMOS-SO8		unknown	S08	P channe	el MOS transistor
(enhancement t	ype)					
X2/X3/X1/R6	RESISTOR	3.74k	1% 1/10	M	0603	Resistor
X2/X3/X1/R5	RESISTOR	3.74k	1% 1/10		0603	Resistor
X2/X3/X1/R4	RESISTOR	3.74k	1% 1/10		0603	Resistor
X2/X3/X1/R3	RESISTOR	3.74k	1% 1/10		0603	Resistor
X2/X3/X1/R7	RESISTOR	200	1% 1/10		0603	Resistor
x2/x3/x1/Q4	NPN_TRANSISTOR			unknown		unknown
X2/X3/X1/Q3	PNP_TRANSISTOR	MMBT290		unknown		unknown
X2/X3/X1/R2	RESISTOR	1		2512	Resisto	
X2/X3/X1/R1	RESISTOR	1		2512	Resisto	
X2/X3/X1/Q2	NMOS_TRANSISTOR					generic N channe
	or (enhancement ty		-			
X2/X3/R3	RESISTOR	100	1% 1/10	W	0603	Resistor
X2/X3/R4	RESISTOR	100	1% 1/10		0603	Resistor
X2/X3/R5	RESISTOR	100	1% 1/10		0603	Resistor
x2/x3/U1		unknown		Dual SPI		
X2/X4/C3	CAPACITOR	22nF	50WVDC	0603	Ceramic	capacitor
X2/X4/C2		22nF	50WVDC			capacitor
X2/X4/C1	CAPACITOR	22nF	50WVDC	0603		capacitor
X2/X4/C7	CAPACITOR	1uF	25WVDC	1812		capacitor
X2/X4/C4	CAPACITOR	1uF	25WVDC	1812		capacitor
X2/X4/C6	CAPACITOR	1uF	25WVDC	1812		capacitor
X2/X4/C5	CAPACITOR	1uF	25WVDC	1812		capacitor
X2/X4/R2	RESISTOR	3.74k	1% 1/10		0603	Resistor
X2/X4/R1	RESISTOR	3.74k	1% 1/10		0603	Resistor
X2/X4/R7	RESISTOR	3.74k	1% 1/10		0603	Resistor
X2/X4/R6	RESISTOR	3.74k	1% 1/10		0603	Resistor
X2/X4/X2/Q1	PMOS-SO8		unknown			el MOS transistor
(enhancement t						
X2/X4/X2/R6	RESISTOR	3.74k	1% 1/10	M	0603	Resistor
X2/X4/X2/R5	RESISTOR	3.74k	1% 1/10		0603	Resistor
X2/X4/X2/R4	RESISTOR	3.74k	1% 1/10		0603	Resistor
X2/X4/X2/R3	RESISTOR	3.74k	1% 1/10		0603	Resistor
X2/X4/X2/R7	RESISTOR	200	1% 1/10		0603	Resistor
X2/X4/X2/Q4	NPN_TRANSISTOR	MMBT222		unknown		unknown
X2/X4/X2/Q3	PNP_TRANSISTOR	MMBT290		unknown		unknown
X2/X4/X2/Q3 X2/X4/X2/R2	RESISTOR	1	7A 1% 1W	2512	Resisto	
X2/X4/X2/R2 X2/X4/X2/R1	RESISTOR	1	1% 1W	2512	Resisto	
X2/X4/X2/Q2	NMOS_TRANSISTOR	_				generic N channe
	or (enhancement to		•	WIII TIIO WII	10232AA	action to the charme
_ 1100 0101151500		, p = /				

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X2/X4/X1/Q1	PMOS-SO8	IRF9333	unknown	S08	P channe	el MOS tra	ansistor
(enhancement t							
x2/x4/x1/R6	RESISTOR	3.74k	1% 1/10	W	0603	Resistor	
X2/X4/X1/R5	RESISTOR		1% 1/10		0603	Resistor	
X2/X4/X1/R4	RESISTOR		1% 1/10		0603	Resistor	
X2/X4/X1/R3	RESISTOR	3.74k	1% 1/10		0603	Resistor	
X2/X4/X1/R7	RESISTOR	200	1% 1/10		0603	Resistor	
x2/x4/x1/Q4	NPN_TRANSISTOR				SOT23	unknown	
x2/x4/x1/Q3	PNP_TRANSISTOR	MMBT290		unknown		unknown	
X2/X4/X1/R2	RESISTOR	1	1% 1W	2512	Resisto		
X2/X4/X1/R1	RESISTOR	1	1% 1W	2512	Resisto		
X2/X4/X1/Q2	NMOS_TRANSISTOR	IRFR341				generic 1	N channe
1 MOS transisto	or (enhancement t						
X2/X4/R3	RESISTOR	100	1% 1/10	W	0603	Resistor	
X2/X4/R4	RESISTOR	100	1% 1/10	W	0603	Resistor	
X2/X4/R5	RESISTOR	100	1% 1/10	W	0603	Resistor	
X2/X4/U1		unknown			DT switcl	า	
X2/X10/R22	RESISTOR	604k	1% 1/10		0603	Resistor	
X2/X10/R21	RESISTOR	604k	1% 1/10		0603	Resistor	
X2/X10/C10	CAPACITOR	1uF		1812		capacito	_
X2/X10/C9	CAPACITOR	1uF	25WVDC	1812	Ceramic	capacito	<u>c</u>
X2/X10/C4	CAPACITOR	0.1uF	10WVDC	0603		capacito	
X2/X10/R20	RESISTOR	10	1% 1/10	W	0603	Resistor	
X2/X10/C8	CAPACITOR	1uF	25WVDC	1812	Ceramic	capacito	<u>c</u>
X2/X10/R18	RESISTOR	10k	1% 1/10	W	0603	Resistor	
X2/X10/Q6	NPN_TRANSISTOR	MMBT222	2A	unknown	SOT23	unknown	
X2/X10/R19	RESISTOR	12.7	1% 1/10		0603	Resistor	
X2/X10/Q5	NPN_TRANSISTOR	MMBT222		unknown		unknown	
X2/X10/R16	RESISTOR	20k	1% 1/10	W	0603	Resistor	
X2/X10/R17	RESISTOR	499	1% 1/10	W	0603	Resistor	
X2/X10/Q4	PNP_TRANSISTOR	MMBT290		unknown		unknown	
X2/X10/C7	CAPACITOR	0.1uF		0603		capacito:	ſ
X2/X10/R13	RESISTOR	1k	1% 1/10	W	0603	Resistor	
X2/X10/R14	RESISTOR	32.4k	1% 1/10		0603	Resistor	
X2/X10/C6	CAPACITOR	4.7pF	10WVDC			capacito:	<u> </u>
X2/X10/R15	RESISTOR	301k	1% 1/10		0603	Resistor	
X2/X10/R11	RESISTOR	10	1% 1/10		0603	Resistor	
X2/X10/C1	CAPACITOR	4.7pF	10WVDC	0603		capacito	_
X2/X10/Q1	NPN_TRANSISTOR	MMBT222		unknown		unknown	
X2/X10/R7	RESISTOR	499	1% 1/10		0603	Resistor	
X2/X10/R10	RESISTOR	49.9	1% 1/10		0603	Resistor	
X2/X10/C5	CAPACITOR	0.1uF	10WVDC	0603		capacito	
X2/X10/U1	DUAL_OPAMP	LM6142A	ΙM	N/A	S08	attribute	e_confli
ct	DEGE G=	103			0.665	_	
X2/X10/R8	RESISTOR	10k	1% 1/10		0603	Resistor	
X2/X10/R2	RESISTOR	26.7k	1% 1/10		0603	Resistor	
X2/X10/R1	RESISTOR	34.0k	1% 1/10		0603	Resistor	
X2/X10/C2	CAPACITOR	0.1uF		0603		capacito	<u> </u>
X2/X10/R3	RESISTOR	1k	1% 1/10		0603	Resistor	
X2/X10/R4	RESISTOR	32.4k	1% 1/10		0603	Resistor	
X2/X10/R5	RESISTOR	301k	1% 1/10		0603	Resistor	
X2/X10/R6	RESISTOR	20k	1% 1/10°		0603	Resistor	_
X2/X10/C3	CAPACITOR	1uF	25WVDC	1812		capacito	2
X2/X10/R9	RESISTOR	12.7	1% 1/10		0603	Resistor	
X2/X10/Q3	PNP_TRANSISTOR	MMBT290		unknown		unknown	
X2/X10/Q2	PNP_TRANSISTOR	MMBT290		unknown		unknown	
X2/X9/R9	RESISTOR	75 75	1% 1/10		0603	Resistor	
X2/X9/R8	RESISTOR	75 75	1% 1/10		0603	Resistor	
X2/X9/R7	RESISTOR	75	1% 1/10	W	0603	Resistor	

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X2/X9/R6	RESISTOR	75	1% 1/10W	0603	Resistor
X2/X9/R3	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X9/C3	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
r	CAPACITOR	o.iur	ZJWVDC X/K	0003	Ceramic Capacito
X2/X9/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X9/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r	CAPACITOR	o.iur	TOWVDC X/K	0003	Ceramic Capacito
X2/X9/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X9/C1	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
r	CAFACTION	0.1ur	ZJWVDC X/K	0003	Ceramic Capacito
x2/x9/U1	DG403 unknown	unknown	SO16 Dual	SPDT switch	1
X2/X8/R9	RESISTOR	75	1% 1/10W	0603	Resistor
X2/X8/R8	RESISTOR	75	1% 1/10W	0603	Resistor
X2/X8/R7	RESISTOR	75	1% 1/10W	0603	Resistor
X2/X8/R6	RESISTOR	75 75	1% 1/10W	0603	Resistor
X2/X8/R3	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X8/C3	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
r	C11111C11O1C	0.141	ZOWVDC ZITK	0005	ceramic capacito
x2/x8/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X8/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r	01111011011	0.141	IOWVDC 11710	0005	ceramic capacito
X2/X8/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X8/C1	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
r	01111011011	0.141	2511120 21710	0005	ceramic capacito
X2/X8/U1	DG403 unknown	unknown	SO16 Dual	SPDT switch	n
X2/X7/R9	RESISTOR	75	1% 1/10W	0603	Resistor
X2/X7/R8	RESISTOR	75	1% 1/10W	0603	Resistor
X2/X7/R7	RESISTOR	75	1% 1/10W	0603	Resistor
X2/X7/R6	RESISTOR	75	1% 1/10W	0603	Resistor
X2/X7/R3	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X7/C3	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
r	01111011011	0.141	2311120 11711	0005	ceramic capacite
x2/x7/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X7/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r					
x2/x7/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X7/C1	CAPACITOR	0.1uF			Ceramic capacito
r					-
X2/X7/U1	DG403 unknown	unknown	SO16 Dual	SPDT switch	n
X2/X6/R9	RESISTOR	75	1% 1/10W	0603	Resistor
X2/X6/R8	RESISTOR	75	1% 1/10W	0603	Resistor
X2/X6/R7	RESISTOR	75	1% 1/10W	0603	Resistor
X2/X6/R6	RESISTOR	75	1% 1/10W	0603	Resistor
X2/X6/R3	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X6/C3	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
r					
X2/X6/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X6/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r					
X2/X6/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X6/C1	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
r					
X2/X6/U1		unknown		SPDT switch	
X2/X5/R22	RESISTOR	604k	1% 1/10W	0603	Resistor
X2/X5/R21	RESISTOR	604k	1% 1/10W	0603	Resistor
X2/X5/C10	CAPACITOR	1uF	25WVDC 1812		capacitor
X2/X5/C9	CAPACITOR	1uF	25WVDC 1812		capacitor
X2/X5/C4	CAPACITOR	0.1uF	10WVDC 0603		capacitor
X2/X5/R20	RESISTOR	10	1% 1/10W	0603	Resistor

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X2/X5/C8	CAPACITOR	1uF	25WVDC	1812		capacitor
X2/X5/R18	RESISTOR	10k	1% 1/10	W	0603	Resistor
X2/X5/Q6	NPN_TRANSIS	TOR MMBT22	22A	unknown	SOT23	unknown
X2/X5/R19	RESISTOR	12.7	1% 1/10	W	0603	Resistor
X2/X5/Q5	NPN_TRANSIS	TOR MMBT22	22A	unknown	SOT23	unknown
X2/X5/R16	RESISTOR	20k	1% 1/10	W	0603	Resistor
X2/X5/R17	RESISTOR	499	1% 1/10	W	0603	Resistor
X2/X5/Q4	PNP_TRANSIS	TOR MMBT29	07A	unknown	SOT23	unknown
X2/X5/C7	CAPACITOR	0.1uF	10WVDC	0603	Ceramic	capacitor
X2/X5/R13	RESISTOR	1k	1% 1/10	W	0603	Resistor
X2/X5/R14	RESISTOR	32.4k	1% 1/10	W	0603	Resistor
X2/X5/C6	CAPACITOR	4.7pF	10WVDC	0603	Ceramic	capacitor
X2/X5/R15	RESISTOR	301k	1% 1/10	W	0603	Resistor
X2/X5/R11	RESISTOR	10	1% 1/10	W	0603	Resistor
X2/X5/C1	CAPACITOR	4.7pF	10WVDC	0603	Ceramic	capacitor
X2/X5/Q1	NPN_TRANSIS	TOR MMBT22	22A	unknown	SOT23	unknown
X2/X5/R7	RESISTOR	499	1% 1/10	W	0603	Resistor
X2/X5/R10	RESISTOR	49.9	1% 1/10	W	0603	Resistor
X2/X5/C5	CAPACITOR	0.1uF	10WVDC	0603	Ceramic	capacitor
X2/X5/U1	DUAL_OPAMP	LM6142	AIM	N/A	S08	attribute_confli
ct						
X2/X5/R8	RESISTOR	10k	1% 1/10	W	0603	Resistor
X2/X5/R2	RESISTOR	26.7k	1% 1/10	W	0603	Resistor
X2/X5/R1	RESISTOR	34.0k	1% 1/10	W	0603	Resistor
X2/X5/C2	CAPACITOR	0.1uF	10WVDC	0603	Ceramic	capacitor
X2/X5/R3	RESISTOR	1k	1% 1/10	W	0603	Resistor
X2/X5/R4	RESISTOR	32.4k	1% 1/10		0603	Resistor
X2/X5/R5	RESISTOR	301k	1% 1/10	W	0603	Resistor
X2/X5/R6	RESISTOR	20k	1% 1/10		0603	Resistor
X2/X5/C3	CAPACITOR	1uF	25WVDC	1812	Ceramic	capacitor
X2/X5/R9	RESISTOR	12.7	1% 1/10	W	0603	Resistor
X2/X5/Q3	PNP_TRANSIS	TOR MMBT29	07A	unknown	SOT23	unknown
X2/X5/Q2	PNP_TRANSIS		07A	unknown		unknown
X2/X11/R9	RESISTOR	75	1% 1/10	W	0603	Resistor
X2/X11/R8	RESISTOR	75	1% 1/10	W	0603	Resistor
X2/X11/R7	RESISTOR	75	1% 1/10	W	0603	Resistor
X2/X11/R6	RESISTOR	75	1% 1/10	W	0603	Resistor
X2/X11/R3	RESISTOR	100	1% 1/10	W	0603	Resistor
X2/X11/C3	CAPACITOR	0.1uF	25WVDC	X7R	0603	Ceramic capacito
r						-
X2/X11/R4	RESISTOR	100	1% 1/10	W	0603	Resistor
X2/X11/C2	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacito
r						_
X2/X11/R5	RESISTOR	100	1% 1/10	W	0603	Resistor
X2/X11/C1	CAPACITOR	0.1uF	25WVDC	X7R	0603	Ceramic capacito
r						_
X2/X11/U1	DG403 unk	nown unknow	n S016	Dual SPI	OT switch	n
X2/R9 RESISTOR			0603	Resisto	_	
X2/R1 RESISTOR			0603	Resisto		
X2/R2 RESISTOR			0603	Resisto		
X2/C4 CAPACITO		F 25WVDC		0603		capacitor
X2/R8 RESISTOR	_			0603	Resisto	
X2/C5 CAPACITO				0603		capacitor
X2/R6 RESISTOR				0603	Resisto	
X2/C3 CAPACITO				0603		capacitor
X2/U1 DUAL_OPA		142AIM	N/A	S08		te_conflict
X2/R7 RESISTOR			0603	Resisto		
X2/R3 RESISTOR			0603	Resisto		
X2/R4 RESISTOR			0603	Resisto		

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X2/C1 CAPACIT	OR 10pF	25WVDC	×7R	0603	Ceramic	capacitor	
X2/R5 RESISTO	<u>-</u>	1% 1/10		0603	Resistor		
X2/C2 CAPACITO		25WVDC 2		0603		capacitor	
X1/R12 RESISTO		1% 1/10		0603	Resisto	_	
X1/R11 RESISTO		1% 1/10		0603	Resistor		
X1/C7 CAPACITO		10WVDC			capacito		
X1/R10 RESISTO		1% 1/10		0603	Resistor		
X1/C6 CAPACITO		10WVDC	0603		capacito		
X1/C32 CAPACITO		50WVDC		0603		capacitor	
X1/U3 MAX308C		unknown			analog r		
X1/C31 CAPACIT		50WVDC		0603		capacitor	
X1/U2 AD5328	unknown unknown					<u>r</u>	
X1/X1/Z1	ZENER_DIODE	BZV55-B3			SOD80C	unknown	
X1/X1/Z2	ZENER_DIODE	BZV55-B3		unknown	SOD80C	unknown	
X1/X1/C11	CAPACITOR	22nF		0603		capacitor	
X1/X1/C12	CAPACITOR	22nF	50WVDC	0603		capacitor	
X1/X1/C2	CAPACITOR	22nF	50WVDC	0603		capacitor	
X1/X1/C13	CAPACITOR	1uF	25WVDC	1812	Ceramic	capacitor	
X1/X1/C10	CAPACITOR	1uF	25WVDC	1812		capacitor	
X1/X1/R20	RESISTOR	604k	1% 1/10		0603	Resistor	
X1/X1/R10	RESISTOR	604k	1% 1/10		0603	Resistor	
X1/X1/C1	CAPACITOR	22nF	50WVDC	0603		capacitor	
X1/X1/R18	RESISTOR	10	1% 1W	2512	Resistor		
X1/X1/C9	CAPACITOR	1uF	25WVDC	1812		capacitor	
X1/X1/R12	RESISTOR	33.2k	1% 1/10		0603	Resistor	
X1/X1/Q2		unknown		unknown			
X1/X1/C7	CAPACITOR	47pF	50WVDC	0603		capacitor	
X1/X1/R16	RESISTOR	4.99k	1% 1/10		0603	Resistor	
X1/X1/Q3	PNP_TRANSISTOR	MMBT290		unknown		unknown	
X1/X1/R8	RESISTOR	10	1% 1W	2512	Resistor		
X1/X1/C8	CAPACITOR	1uF	25WVDC	1812		capacitor	
X1/X1/R2	RESISTOR	301k	1% 1/10		0603	Resistor	
X1/X1/C6	CAPACITOR	330pF		0603		capacitor	
X1/X1/R6	RESISTOR	10k	1% 1/10		0603	Resistor	
X1/X1/Q1		unknown		unknown	0.602	.	
X1/X1/R17	RESISTOR	10k	1% 1/10		0603	Resistor	
X1/X1/R7	RESISTOR	10k	1% 1/10		0603	Resistor	
X1/X1/C5	CAPACITOR	330pF	50WVDC	0603		capacitor	
X1/X1/C4	CAPACITOR	22nF	50WVDC	0603		capacitor	
X1/X1/C3 X1/X1/R15	CAPACITOR	22nF 10k	50WVDC 1% 1/10	0603	0603	capacitor Resistor	
X1/X1/R15 X1/X1/R5	RESISTOR RESISTOR	10k 10k	1% 1/10		0603	Resistor	
X1/X1/R5 X1/X1/R11	RESISTOR RESISTOR	60.4k	1% 1/10		0603	Resistor	
X1/X1/R11 X1/X1/R13	RESISTOR RESISTOR	75k	1% 1/10		0603	Resistor	
X1/X1/R13 X1/X1/R14	RESISTOR RESISTOR	301k	1% 1/10		0603	Resistor	
X1/X1/U2	DUAL OPAMP	LM6142A		w N/A	SO8	attribute_	confli
ct	DOLITI OF WHE	LITOT TAA.	L1*1	1V / A	200	acci ibace_	
X1/X1/R1	RESISTOR	54.9k	1% 1/10	M	0603	Resistor	
X1/X1/R3	RESISTOR	54.9k	1% 1/10		0603	Resistor	
X1/X1/R4	RESISTOR	301k	1% 1/10		0603	Resistor	
X1/X1/U1	DUAL_OPAMP	LM6142A		N/A	S08	attribute_	confli
ct	<u>-</u>		=	, <u>-</u>			
X1/X2/C3	CAPACITOR	22nF	50WVDC	0603	Ceramic	capacitor	
X1/X2/C2	CAPACITOR	22nF	50WVDC	0603		capacitor	
X1/X2/C1	CAPACITOR	22nF	50WVDC	0603		capacitor	
X1/X2/C7	CAPACITOR	1uF	25WVDC	1812		capacitor	
X1/X2/C4	CAPACITOR	1uF	25WVDC	1812		capacitor	
X1/X2/C6	CAPACITOR	1uF	25WVDC	1812		capacitor	
X1/X2/C5	CAPACITOR	1uF	25WVDC	1812		capacitor	
50/50							4.4.004.0

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X1/X2/R2 RESISTOR 3.74k 1% 1/10W	0603 Resistor
X1/X2/R1 RESISTOR 3.74k 1% 1/10W	0603 Resistor
X1/X2/R7 RESISTOR 3.74k 1% 1/10W	0603 Resistor
X1/X2/R6 RESISTOR 3.74k 1% 1/10W	0603 Resistor
X1/X2/X2/Q1 PMOS-S08 IRF9333 unknown S08	P channel MOS transistor
(enhancement type)	
X1/X2/X2/R6	0603 Resistor
X1/X2/X2/R5 RESISTOR 3.74k 1% 1/10W	0603 Resistor
X1/X2/X2/R4 RESISTOR 3.74k 1% 1/10W	0603 Resistor
X1/X2/X2/R3	0603 Resistor
X1/X2/X2/R7 RESISTOR 200 1% 1/10W	0603 Resistor
	n SOT23 unknown
	n SOT23 unknown
X1/X2/X2/R2 RESISTOR 1 1% 1W 2512	Resistor
X1/X2/X2/R1	Resistor
——————————————————————————————————————	n TO252AA generic N channe
1 MOS transistor (enhancement type)	D 1 1 100 1 1 1
X1/X2/X1/Q1 PMOS-S08 IRF9333 unknown S08	P channel MOS transistor
(enhancement type) X1/X2/X1/R6 RESISTOR 3.74k 1% 1/10W	0602
X1/X2/X1/R6	0603 Resistor 0603 Resistor
X1/X2/X1/R5	0603 Resistor
X1/X2/X1/R4	0603 Resistor
X1/X2/X1/R3	0603 Resistor
	n SOT23 unknown
	n SOT23 unknown
X1/X2/X1/R2	Resistor
X1/X2/X1/R1	Resistor
	n TO252AA generic N channe
1 MOS transistor (enhancement type)	J
X1/X2/R3 RESISTOR 100 1% 1/10W	0603 Resistor
X1/X2/R4 RESISTOR 100 1% 1/10W	0603 Resistor
X1/X2/R5 RESISTOR 100 1% 1/10W	0603 Resistor
	SPDT switch
X1/X3/C3 CAPACITOR 22nF 50WVDC 0603	Ceramic capacitor
X1/X3/C2 CAPACITOR 22nF 50WVDC 0603	Ceramic capacitor
X1/X3/C1 CAPACITOR 22nF 50WVDC 0603	Ceramic capacitor
X1/X3/C7 CAPACITOR luf 25WVDC 1812	Ceramic capacitor
X1/X3/C4 CAPACITOR 1uF 25WVDC 1812	Ceramic capacitor
X1/X3/C6 CAPACITOR 1uF 25WVDC 1812	Ceramic capacitor
X1/X3/C5	Ceramic capacitor 0603 Resistor
X1/X3/R2	0603 Resistor
X1/X3/R1	0603 Resistor
X1/X3/R7	0603 Resistor
X1/X3/X2/Q1	P channel MOS transistor
(enhancement type)	
X1/X3/X2/R6	0603 Resistor
X1/X3/X2/R5	0603 Resistor
X1/X3/X2/R4 RESISTOR 3.74k 1% 1/10W	0603 Resistor
X1/X3/X2/R3 RESISTOR 3.74k 1% 1/10W	0603 Resistor
X1/X3/X2/R7 RESISTOR 200 1% 1/10W	0603 Resistor
	n SOT23 unknown
	n SOT23 unknown
X1/X3/X2/R2 RESISTOR 1 1% 1W 2512	Resistor
X1/X3/X2/R1	Resistor
	n TO252AA generic N channe
l MOS transistor (enhancement type)	D shares 1 MOC +
X1/X3/X1/Q1 PMOS-S08 IRF9333 unknown S08	P channel MOS transistor

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(enhancement						
X1/X3/X1/R6	RESISTOR	3.74k	1% 1/10	W	0603	Resistor
X1/X3/X1/R5	RESISTOR	3.74k	1% 1/10	W	0603	Resistor
X1/X3/X1/R4	RESISTOR	3.74k	1% 1/10	W	0603	Resistor
X1/X3/X1/R3	RESISTOR	3.74k	1% 1/10		0603	Resistor
X1/X3/X1/R7	RESISTOR	200	1% 1/10		0603	Resistor
X1/X3/X1/Q4	NPN_TRANSISTOR	MMBT222		unknown		unknown
X1/X3/X1/Q1 X1/X3/X1/Q3	PNP_TRANSISTOR	MMBT290		unknown		unknown
X1/X3/X1/Q3 X1/X3/X1/R2	RESISTOR	1	7A 1% 1W	2512	Resisto	
X1/X3/X1/R2 X1/X3/X1/R1			1% 1W 1% 1W	2512	Resistor	
	RESISTOR	1				
X1/X3/X1/Q2	NMOS_TRANSISTOR		J	unknown	10252AA	generic N channe
	or (enhancement ty		10 1/10		0.000	5
X1/X3/R3	RESISTOR	100	1% 1/10		0603	Resistor
X1/X3/R4	RESISTOR	100	1% 1/10		0603	Resistor
X1/X3/R5	RESISTOR	100	1% 1/10		0603	Resistor
X1/X3/U1		unknown			OT switch	
X1/X4/C3	CAPACITOR	22nF		0603		capacitor
X1/X4/C2	CAPACITOR	22nF		0603	Ceramic	capacitor
X1/X4/C1	CAPACITOR	22nF		0603	Ceramic	capacitor
X1/X4/C7	CAPACITOR	1uF	25WVDC	1812		capacitor
X1/X4/C4	CAPACITOR	1uF		1812		capacitor
X1/X4/C6	CAPACITOR	1uF	25WVDC	1812		capacitor
X1/X4/C5	CAPACITOR	1uF	25WVDC	1812		capacitor
X1/X4/R2	RESISTOR	3.74k	1% 1/10		0603	Resistor
X1/X4/R1	RESISTOR	3.74k	1% 1/10		0603	Resistor
X1/X4/R7	RESISTOR	3.74k	1% 1/10		0603 0603 0603	Resistor
X1/X4/R7 X1/X4/R6	RESISTOR	3.74k	1% 1/10		0603	Resistor
			unknown			
X1/X4/X2/Q1	PMOS-SO8	IRF9333	unknown	508	P Channe	el MOS transistor
(enhancement		2 741-	10 1/10	r. T	0.00	Danish
X1/X4/X2/R6	RESISTOR	3.74k	1% 1/10		0603	Resistor
X1/X4/X2/R5	RESISTOR	3.74k	1% 1/10		0603	Resistor
X1/X4/X2/R4	RESISTOR	3.74k	1% 1/10		0603	Resistor
X1/X4/X2/R3	RESISTOR	3.74k	1% 1/10		0603	Resistor
X1/X4/X2/R7	RESISTOR	200	1% 1/10		0603	Resistor
X1/X4/X2/Q4	NPN_TRANSISTOR	MMBT222		unknown		unknown
X1/X4/X2/Q3	PNP_TRANSISTOR	MMBT290		unknown		unknown
X1/X4/X2/R2	RESISTOR	1	1% 1W		Resistor	<u>r</u>
X1/X4/X2/R1	RESISTOR	1	1% 1W	2512	Resistor	
X1/X4/X2/Q2	NMOS_TRANSISTOR	IRFR341	0	unknown	TO252AA	generic N channe
l MOS transist	or (enhancement ty	ype)				
X1/X4/X1/Q1	PMOS-SO8	IRF9333	unknown	S08	P channe	el MOS transistor
(enhancement						
X1/X4/X1/R6	RESISTOR	3.74k	1% 1/10	W	0603	Resistor
X1/X4/X1/R5	RESISTOR	3.74k	1% 1/10		0603	Resistor
X1/X4/X1/R4	RESISTOR	3.74k	1% 1/10		0603	Resistor
X1/X4/X1/R3	RESISTOR	3.74k	1% 1/10		0603	Resistor
X1/X4/X1/R7	RESISTOR	200	1% 1/10		0603	Resistor
X1/X4/X1/R/ X1/X4/X1/Q4	NPN_TRANSISTOR	MMBT222		w unknown		unknown
				unknown		
X1/X4/X1/Q3	PNP_TRANSISTOR	MMBT290				unknown
X1/X4/X1/R2	RESISTOR	1	1% 1W	2512	Resistor	
X1/X4/X1/R1	RESISTOR	1	1% 1W	2512	Resistor	
X1/X4/X1/Q2	NMOS_TRANSISTOR		J	unknown	TO252AA	generic N channe
	or (enhancement ty					
X1/X4/R3	RESISTOR	100	1% 1/10		0603	Resistor
X1/X4/R4	RESISTOR	100	1% 1/10		0603	Resistor
X1/X4/R5	RESISTOR	100	1% 1/10	W	0603	Resistor
X1/X4/U1	DG403 unknown	unknown	S016	Dual SPI	OT switch	n
X1/X10/R22	RESISTOR	604k	1% 1/10		0603	Resistor
X1/X10/R21	RESISTOR	604k	1% 1/10		0603	Resistor
, _ ,			/ _ 0			

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X1/X10/C10	CAPACITOR	1uF	25WVDC 1812	Ceramic	capacitor
X1/X10/C9	CAPACITOR	1uF	25WVDC 1812		capacitor
X1/X10/C4	CAPACITOR	0.1uF	10WVDC 0603		capacitor
X1/X10/R20	RESISTOR	10	1% 1/10W	0603	Resistor
X1/X10/C8	CAPACITOR	1uF	25WVDC 1812	Ceramic	capacitor
X1/X10/R18	RESISTOR	10k	1% 1/10W	0603	Resistor
X1/X10/Q6	NPN_TRANSISTOR	MMBT222	2A unknown	SOT23	unknown
X1/X10/R19	RESISTOR	12.7	1% 1/10W	0603	Resistor
X1/X10/Q5	NPN_TRANSISTOR	MMBT222	2A unknown	SOT23	unknown
X1/X10/R16	RESISTOR	20k	1% 1/10W	0603	Resistor
X1/X10/R17	RESISTOR	499	1% 1/10W	0603	Resistor
X1/X10/Q4	PNP_TRANSISTOR	MMBT290	7A unknown	SOT23	unknown
X1/X10/C7	CAPACITOR	0.1uF	10WVDC 0603	Ceramic	capacitor
X1/X10/R13	RESISTOR	1k	1% 1/10W	0603	Resistor
X1/X10/R14	RESISTOR	32.4k	1% 1/10W	0603	Resistor
X1/X10/C6	CAPACITOR	4.7pF	10WVDC 0603	Ceramic	capacitor
X1/X10/R15	RESISTOR	301k	1% 1/10W	0603	Resistor
X1/X10/R11	RESISTOR	10	1% 1/10W	0603	Resistor
X1/X10/C1	CAPACITOR	4.7pF	10WVDC 0603		capacitor
X1/X10/Q1	NPN_TRANSISTOR	MMBT222			unknown
X1/X10/R7	RESISTOR	499	1% 1/10W	0603	Resistor
X1/X10/R10	RESISTOR	49.9	1% 1/10W	0603	Resistor
X1/X10/C5	CAPACITOR	0.1uF	10WVDC 0603		capacitor
X1/X10/U1	DUAL_OPAMP	LM6142A	IM N/A	S08	attribute_confli
ct					
X1/X10/R8	RESISTOR	10k	1% 1/10W	0603	Resistor
X1/X10/R2	RESISTOR	26.7k	1% 1/10W	0603	Resistor
X1/X10/R1	RESISTOR	34.0k	1% 1/10W	0603	Resistor
X1/X10/C2	CAPACITOR	0.1uF	10WVDC 0603		capacitor
X1/X10/R3	RESISTOR	1k	1% 1/10W	0603	Resistor
X1/X10/R4	RESISTOR	32.4k	1% 1/10W	0603	Resistor
X1/X10/R5	RESISTOR	301k	1% 1/10W	0603	Resistor
X1/X10/R6	RESISTOR	20k	1% 1/10W	0603	Resistor
X1/X10/C3	CAPACITOR	1uF	25WVDC 1812		capacitor
X1/X10/R9	RESISTOR	12.7	_1% 1/10W	0603	Resistor
X1/X10/Q3	PNP_TRANSISTOR	MMBT290	_		unknown
X1/X10/Q2	PNP_TRANSISTOR	MMBT290			unknown
X1/X9/R9	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X9/R8	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X9/R7	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X9/R6	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X9/R3	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X9/C3	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
r		100	10 1/10	0.600	
X1/X9/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X9/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r x1/x0/DF	DEGLAMOS	100	10 1/10;	0.603	Danisha
X1/X9/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X9/C1	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
r v1/v0/ii1	DC/102	1120 less on	0016 Dec 1 0D	OΠ αι-: + -1	
X1/X9/U1		unknown		OT switc	
X1/X8/R9	RESISTOR	75 75	1% 1/10W	0603	Resistor
X1/X8/R8	RESISTOR	75 75	1% 1/10W	0603	Resistor
X1/X8/R7	RESISTOR	75 75	1% 1/10W	0603	Resistor
X1/X8/R6	RESISTOR	75 100	1% 1/10W	0603	Resistor
X1/X8/R3	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X8/C3	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
r X1/X8/R4	RESISTOR	100	1% 1/10W	0603	Resistor
	A COAC	±00	Το Τ/ Τ Ο W	0000	RESISCOI

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X1/X8/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r w1/w0/P5	DEGEGEOR	100	10 1/10**	0.602	
X1/X8/R5	RESISTOR	100 0.1uF	1% 1/10W 25WVDC X7R	0603 0603	Resistor
X1/X8/C1 r	CAPACITOR	U.lur	Z5WVDC X/R	0003	Ceramic capacito
X1/X8/U1	DG403 unknown	unknown	SO16 Dual SPI	OT switch	h
X1/X7/R9	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X7/R8	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X7/R7	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X7/R6	RESISTOR	75 100	1% 1/10W	0603	Resistor
X1/X7/R3 X1/X7/C3	RESISTOR CAPACITOR	0.1uF	1% 1/10W 25WVDC X7R	0603 0603	Resistor Ceramic capacito
r	CALACTION	0.1ur	ZOWVDC X/IC	0005	ceramic capacito
x1/x7/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X7/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r					
X1/X7/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X7/C1 r	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
x1/x7/U1	DG403 unknown	unknown	SO16 Dual SPI	OT switch	h
X1/X6/R9	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X6/R8	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X6/R7	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X6/R6	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X6/R3	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X6/C3 r	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
x1/x6/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X6/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r					_
X1/X6/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X6/C1 r	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
x1/x6/U1	DG403 unknown	unknown	SO16 Dual SPI	OT switch	h
X1/X5/R22	RESISTOR	604k	1% 1/10W	0603	Resistor
X1/X5/R21	RESISTOR	604k	1% 1/10W	0603	Resistor
X1/X5/C10		1uF	25WVDC 1812		
X1/X5/C9	CAPACITOR	luF	25WVDC 1812		capacitor
X1/X5/C4	CAPACITOR	0.1uF	10WVDC 0603		capacitor
X1/X5/R20 X1/X5/C8	RESISTOR CAPACITOR	10 1uF	1% 1/10W 25WVDC 1812	0603	Resistor capacitor
X1/X5/C6 X1/X5/R18	RESISTOR	10k	1% 1/10W	0603	Resistor
X1/X5/Q6	NPN_TRANSISTOR	MMBT222			unknown
X1/X5/R19	RESISTOR	12.7	1% 1/10W	0603	Resistor
X1/X5/Q5	NPN_TRANSISTOR	MMBT222			unknown
X1/X5/R16	RESISTOR	20k	1% 1/10W	0603	Resistor
X1/X5/R17	RESISTOR	499	1% 1/10W	0603	Resistor
X1/X5/Q4	PNP_TRANSISTOR	MMBT290' 0.1uF	7A unknown 10WVDC 0603		unknown capacitor
X1/X5/C7 X1/X5/R13	CAPACITOR RESISTOR	1k	1% 1/10W	0603	Resistor
X1/X5/R14	RESISTOR	32.4k	1% 1/10W	0603	Resistor
X1/X5/C6	CAPACITOR	4.7pF	10WVDC 0603		capacitor
X1/X5/R15	RESISTOR	301k	1% 1/10W	0603	Resistor
X1/X5/R11	RESISTOR	10_	1% 1/10W	0603	Resistor
X1/X5/C1	CAPACITOR	4.7pF	10WVDC 0603		capacitor
X1/X5/Q1	NPN_TRANSISTOR	MMBT2222			unknown
X1/X5/R7 X1/X5/R10	RESISTOR RESISTOR	499 49.9	1% 1/10W 1% 1/10W	0603 0603	Resistor Resistor
X1/X5/R10 X1/X5/C5	CAPACITOR	49.9 0.1uF	10WVDC 0603		capacitor
		J . I U.I		J = 4.11.1	232321001

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X1/X5/U1	DUAL_OP	AMP	LM6142A	IM	N/A	S08	attribute_confli
ct V1/VE/D0	DECTORO	D	10k	1% 1/10	T.7	0603	Dogiator
X1/X5/R8	RESISTO		10k 26.7k			0603	Resistor
X1/X5/R2	RESISTO			1% 1/10			Resistor
X1/X5/R1	RESISTO		34.0k	1% 1/10°		0603	Resistor
X1/X5/C2	CAPACIT		0.1uF	10WVDC			capacitor Resistor
X1/X5/R3	RESISTO		1k	1% 1/10		0603	
X1/X5/R4	RESISTO		32.4k	1% 1/10		0603	Resistor
X1/X5/R5	RESISTO		301k	1% 1/10		0603 0603	Resistor
X1/X5/R6 X1/X5/C3	RESISTO CAPACIT		20k 1uF	1% 1/10° 25WVDC			Resistor capacitor
X1/X5/C3 X1/X5/R9	RESISTO		12.7	1% 1/10°		0603	Resistor
X1/X5/Q3			MMBT290		w unknown		unknown
X1/X5/Q3 X1/X5/Q2		NSISTOR	MMBT290		unknown		unknown
X1/X3/Q2 X1/X11/R9	RESISTO		75	7A 1% 1/10		0603	Resistor
X1/X11/R8	RESISTO		75 75	1% 1/10		0603	Resistor
X1/X11/R7	RESISTO		75 75	1% 1/10		0603	Resistor
X1/X11/R6	RESISTO		75 75	1% 1/10		0603	Resistor
X1/X11/R0 X1/X11/R3	RESISTO		100	1% 1/10		0603	Resistor
X1/X11/C3	CAPACIT		0.1uF	25WVDC		0603	Ceramic capacito
r	0.11.110.11		J UI	2011 1 100	,		JULIANILO CAPACILO
X1/X11/R4	RESISTO	R	100	1% 1/10	W	0603	Resistor
X1/X11/C2	CAPACIT		0.1uF	16WVDC		0603	Ceramic capacito
r							-
X1/X11/R5	RESISTO	R	100	1% 1/10	W	0603	Resistor
X1/X11/C1	CAPACIT	OR	0.1uF	25WVDC	x7R	0603	Ceramic capacito
r							
X1/X11/U1	DG403		unknown			DT switcl	า
X1/R9 RESISTO		604k	1%	0603	Resisto:		
X1/R1 RESISTO		56.2k	1%	0603	Resisto:		
X1/R2 RESISTO		200k	1%	0603	Resisto		
X1/C4 CAPACIT		10pF	25WVDC		0603		capacitor
X1/R8 RESISTO		49.9	1% 1/10		0603	Resisto	
X1/C5 CAPACIT		10nF	25WVDC		0603		capacitor
X1/R6 RESISTO		49.9	1% 1/10		0603	Resistor	
X1/C3 CAPACIT		22nF	50WVDC		0603		capacitor
X1/U1 DUAL_OI		LM6142A		N/A			te_conflict
X1/R7 RESISTO		604k	1%	0603	Resisto:		
X1/R3 RESISTO		56.2k 200k	1% 1%	0603 0603	Resisto:		
X1/R4 RESISTO X1/C1 CAPACIT		200k 10pF	25WVDC		Resisto: 0603		annagi t ox
X1/C1 CAPACI		49.9	1% 1/10		0603	Resisto	capacitor
X1/R5 RESISION X1/C2 CAPACIT		49.9 10nF	25WVDC 2		0603		capacitor
C2 CAPACI		220pF	25WVDC 2		0603		capacitor
C1 CAPACI		220pF 220pF	250WVDC 2		0603		capacitor
R17 RESIST		499	1% 1/10		0603	Resisto	
R16 RESISTO		1.00k	1% 1/10		0603	Resisto	
R900 RESIST		300	1% 1/10		0603	Resisto	
R31 RESISTO		18	1% 1/10		0603	Resistor	
C45 CAPACIT		10uF	6.3WVDC		0603		capacitor
U16 OSC	29.4912			SMTOSC			scillator
J7 TP8	LPPB042			050" pit		LPPB042	
r header				_			
J4 TP8	LPPB042	NFSS	8pos, .	050" pit	ch	LPPB042	NFSS connecto
r header		_			_		
	k unknown				unknown		
C48 CAPACIT		0.33uF	10WVDC		0603		capacitor
C47 CAPACIT		10nF	50WVDC		0603		capacitor
JMP1 RESISTO	OR	omit	1% 1/10	N	0603	Resisto	r

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JMP2	RESISTOR	omit	1% 1/10V	J	0603	Resistor
J2	ActelJTAG	JTAG	10 pin			or header
U4	A3P600L unknown					
C93	CAPACITOR	0.1uF	25WVDC 2		0603	Ceramic capacitor
C92	CAPACITOR	0.1uF	25WVDC 2		0603	Ceramic capacitor
R34	RESISTOR	100	1% 1/10V		0603	Resistor
U21	SN74LVC1G07DBV		unknown			Noninverting driver with
	ollector output	allitilo Wil	ammiown	150125	3	Wolling arriver wren
U20	FIN1002M5	unknown	unknown	ТSОТ23-	5	single LVDS receiver
C94	CAPACITOR	10pF	25WVDC 2		0603	Ceramic capacitor
R37	RESISTOR	100	1% 1/10V		0603	Resistor
R36	RESISTOR	100	1% 1/10V		0603	Resistor
C29	CAPACITOR	0.1uF	16WVDC 2		0603	Ceramic capacitor
R12	RESISTOR	51.1	1% 1/10V		0603	Resistor
C22	CAPACITOR	0.1uF	16WVDC 2		0603	Ceramic capacitor
R6	RESISTOR	51.1	1% 1/10V		0603	Resistor
C23		0.1uF	16WVDC 2		0603	
	CAPACITOR					Ceramic capacitor
R7	RESISTOR	51.1	1% 1/10V		0603	Resistor
C21	CAPACITOR	22nF	50WVDC 2		0603	Ceramic capacitor
C20	CAPACITOR	0.1uF	16WVDC 2		0603	Ceramic capacitor
R3	RESISTOR	51.1	1% 1/10V		0603	Resistor
R1	RESISTOR	51.1	_1% 1/10V		0603	Resistor
U7	DUAL_OPAMP	LM6142A		N/A	S08	attribute_conflict
U6	DUAL_OPAMP	LM6142A		N/A	S08	attribute_conflict
U5	DUAL_OPAMP	LM6142A		N/A	S08	attribute_conflict
C30	CAPACITOR	4.7uF	10WVDC 2		1812	Ceramic capacitor
U10	ADC128S102		unknown			
R5	RESISTOR	121k	1%	0603	Resistor	
R14	RESISTOR	8.87k	1%	0603	Resistor	
R15	RESISTOR	121k	1%	0603	Resistor	?
R13	RESISTOR	121k	1%	0603	Resistor	?
R11	RESISTOR	121k	1%	0603	Resistor	:
R8	RESISTOR	73.2k	1%	0603	Resistor	:
R9	RESISTOR	21.5k	1%	0603	Resistor	:
R10	RESISTOR	3.00k	1%	0603	Resistor	:
R4	RESISTOR	121k	1%	0603	Resistor	:
R2	RESISTOR	121k	1%	0603	Resistor	:
J5	747467-1	unknown	unknown	747467-	1	unknown
gnd_lug!	5 gnd_lug	unknown	unknown	0603	unknown	
gnd_lug4	4 gnd_lug	unknown	unknown	0603	unknown	
gnd_lug			unknown		unknown	
gnd_lug3			unknown		unknown	
gnd_lug2			unknown		unknown	
gnd_lugi			unknown		unknown	
R100	RESISTOR	0.4	1% 1/10V		0603	Resistor
C200	CAPACITOR	10uF	6.3WVDC		0603	Ceramic capacitor
X5/C13	CAPACITOR	22nF	100WVDC		0805	Ceramic capacitor
X5/R12	RESISTOR	200	1% 1/4W		Resistor	
X5/C10	CAPACITOR	DNP	50WVDC	0603		capacitor
X5/D6	DIODE 1N914UR		DO213AA			
X5/C11	CAPACITOR	22nF	50WVDC	0603		capacitor
X5/D5	DIODE 1N914UR		DO213AA			33.5 3.0 1 3 0 1
X5/C8	CAPACITOR	22nF	50WVDC			capacitor
X5/C8 X5/D4	DIODE 1N914UR		DO213AA			Capacitoi
X5/D4 X5/C9	CAPACITOR	22nF	50WVDC	0603		capacitor
X5/C9 X5/D3	DIODE 1N914UR		DO213AA			Capacitoi
	RESISTOR	N/A 200	1% 1/10V		0603	Resistor
X5/R7 X5/R6	RESISTOR RESISTOR	200			0603	
X5/R6 X5/R2	RESISTOR RESISTOR	200	1% 1/10V 1% 1/10V		0603	Resistor Resistor
A3/K4	VESTSION	400	T.0 T/TON	v	0003	VCDIDCOI

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X5/C7	CAPACITOR		22nF	50WVDC	0603	Ceramic	capacito	or
X5/C6	CAPACITOR		22nF	50WVDC	0603	Ceramic	capacito	or
X5/D2	DIODE 1N9	14UR	N/A	DO213AA	Signal	Diode		
X5/C5	CAPACITOR		22nF	50WVDC	0603	Ceramic	capacito	or
X5/C4	CAPACITOR		22nF	50WVDC	0603		capacito	or
X5/D1	DIODE 1N9	14UR	N/A	DO213AA	Signal	Diode		
X5/C3	CAPACITOR		22nF	50WVDC	0603	Ceramic	capacito	or
X5/C2	CAPACITOR		22nF	50WVDC	0603	Ceramic	capacito	or
X5/C1	CAPACITOR		22nF	50WVDC	0603		capacito	or
X5/R1	RESISTOR		200	1% 1/10V	V	0603	Resistor	<u>-</u>
X5/R3	RESISTOR		100	1% 1/10V	V	0603	Resistor	<u> </u>
X5/R4	RESISTOR		100	1% 1/10V		0603	Resistor	<u> </u>
X5/R5	RESISTOR		100	1% 1/10V		0603	Resistor	<u> </u>
X5/U1			unknown			PDT switch		
J8				FX2CA-68	3S-1.27I)SA(71)	Stacking	g connector
L2	IHLP5050FDE			10uH		n IHLP5050)	incuctor
R35	RESISTOR		100	1% 1/10V		0603	Resistor	
J6)SA(71)		g connector
C44	CAPACITOR		10nF	50WVDC 2		0603		capacitor
C43	CAPACITOR		10uF	6.3WVDC		0603		capacitor
L8	EXC-3BB102H			unknown		EMI chip		
C42	CAPACITOR		1uF	10WVDC 2		0603	capacito	
C41	CAPACITOR		1uF	10WVDC 2		0603	capacito	or
L7	EXC-3BB102H			unknown		EMI chir		
L6	EXC-3BB102H			unknown		EMI chir		
U14	LT1761ES5-1			unknown			unknown	
C17	CAPACITOR		10uF	6.3WVDC		0603		capacitor
C16	CAPACITOR		10uF	6.3WVDC		0603		capacitor
L4	CDPH4D19FNP			22uH		CDPH4D19		incuctor
C18	CAPACITOR		1uF	10WVDC 2		0603	capacito	or
U3	LM3480IM3-3			unknown		unknown	_	
L3	CDPH4D19FNP			22uH		CDPH4D19		incuctor
L1	IHLP5050FDE			10uH		i IHLP5050		incuctor
C19 U2	CAPACITOR ZMR250F unk		1uF	10WVDC X	K5R unknowr	0603	capacito	or
02	71.11/7.201. MILV	TIOMII	CITIZITOWII	00123	WIII/IIOMI	1		

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