

+15

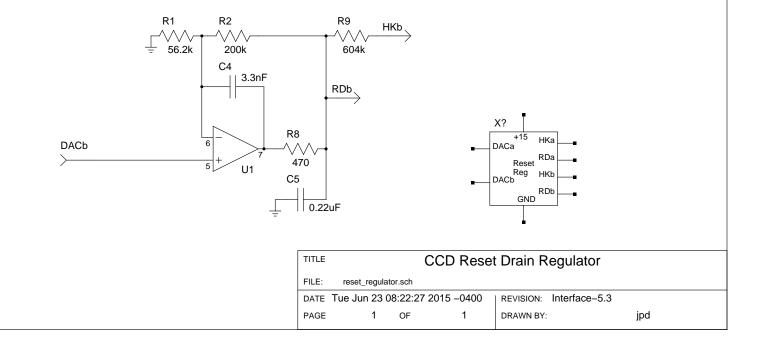
R6

49.9

22nF

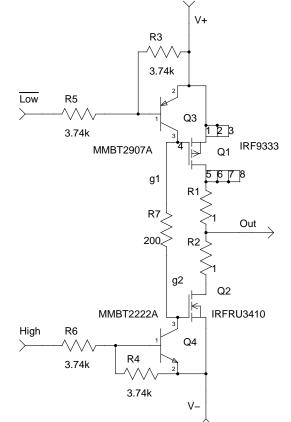
U1

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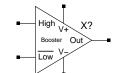
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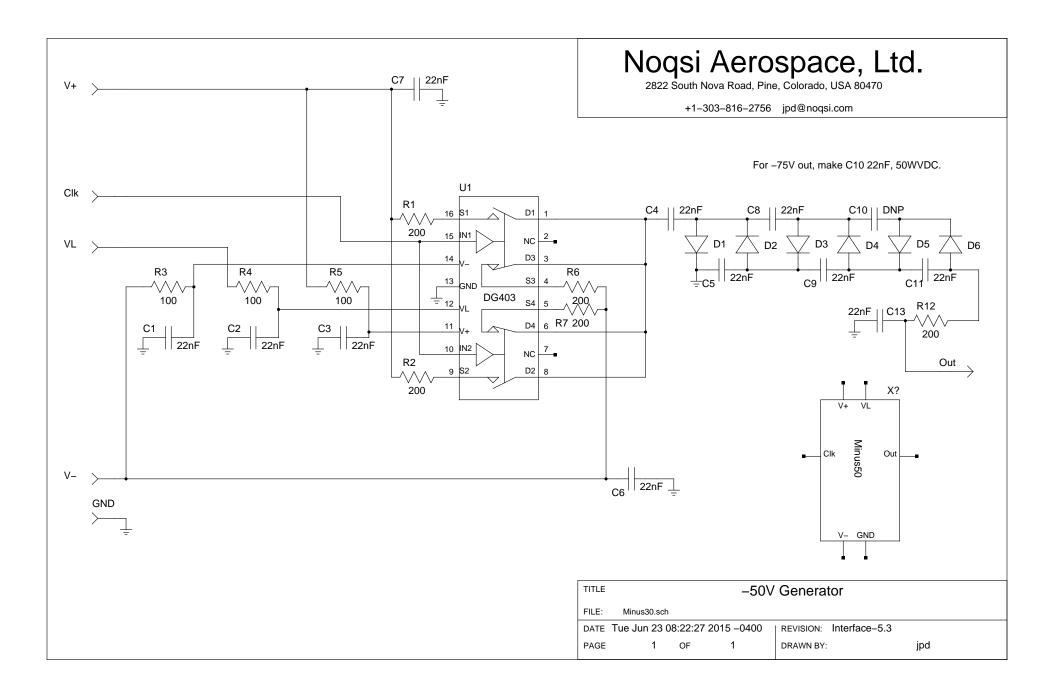
+1-303-816-2756 jpd@noqsi.com



.subckt Booster %up

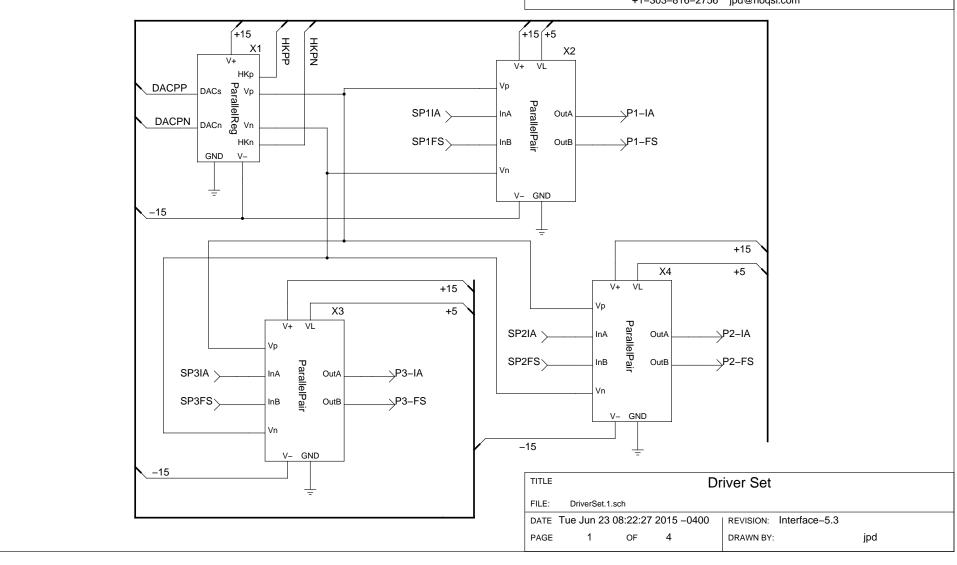
TITLE	Para	llel clock current	booster	
FILE:	Booster.sch			
DATE	Tue Jun 23 08:22:27 2015	-0400 REVISION: I	nterface-5.3	_
PAGE	1 OF 1	DRAWN BY:	jpd	

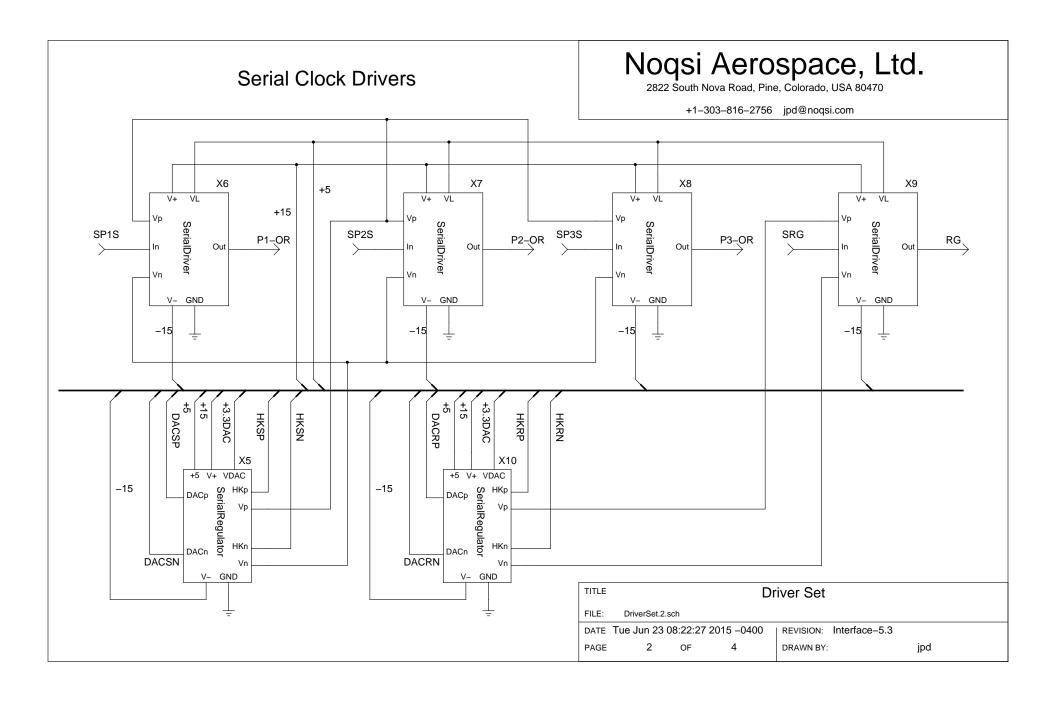


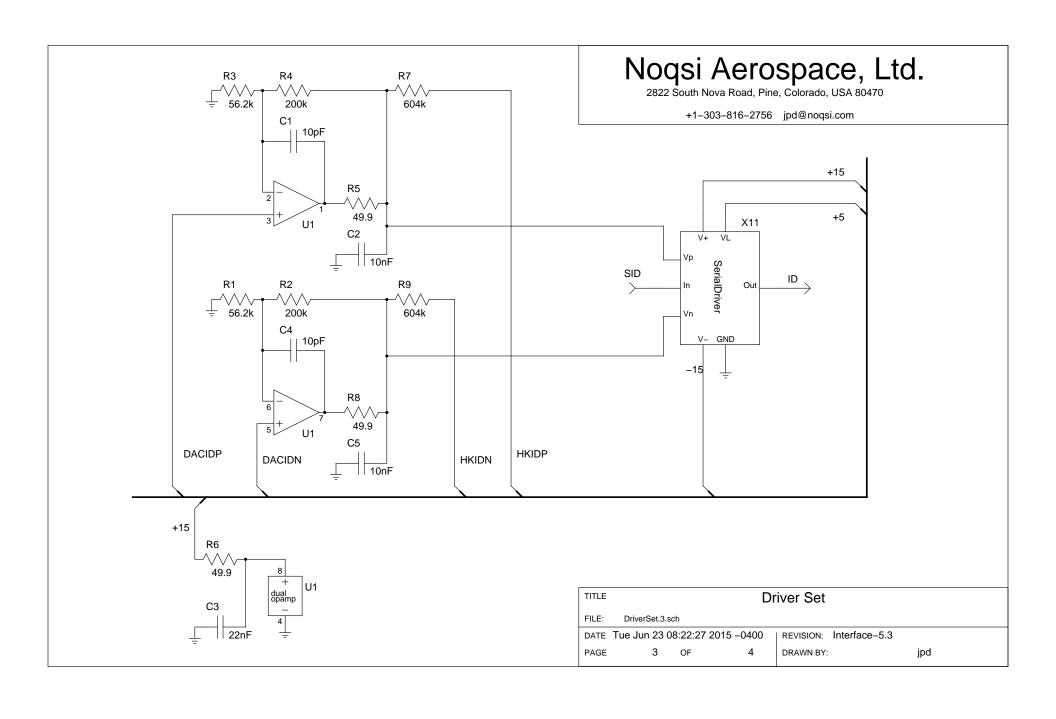


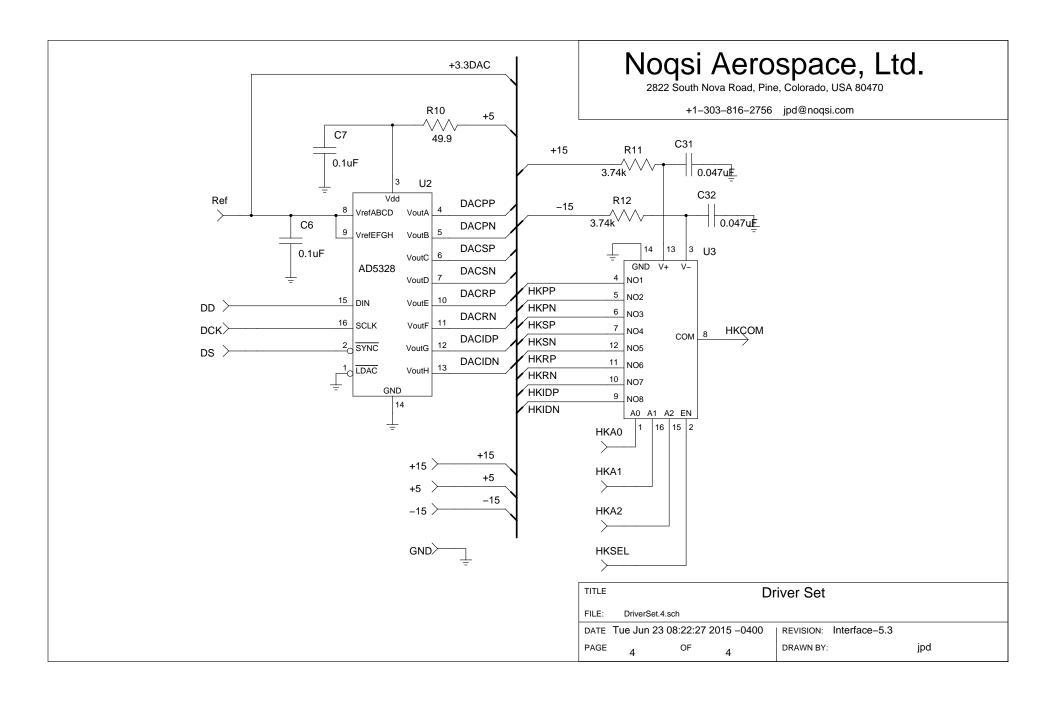
Parallel Clock Drivers

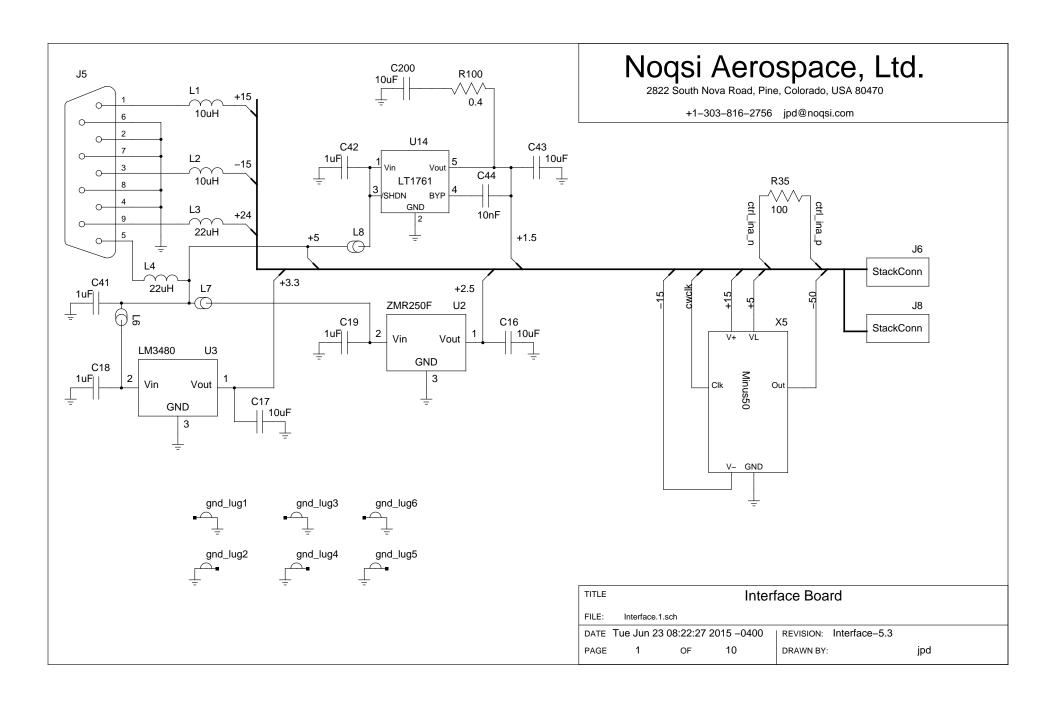
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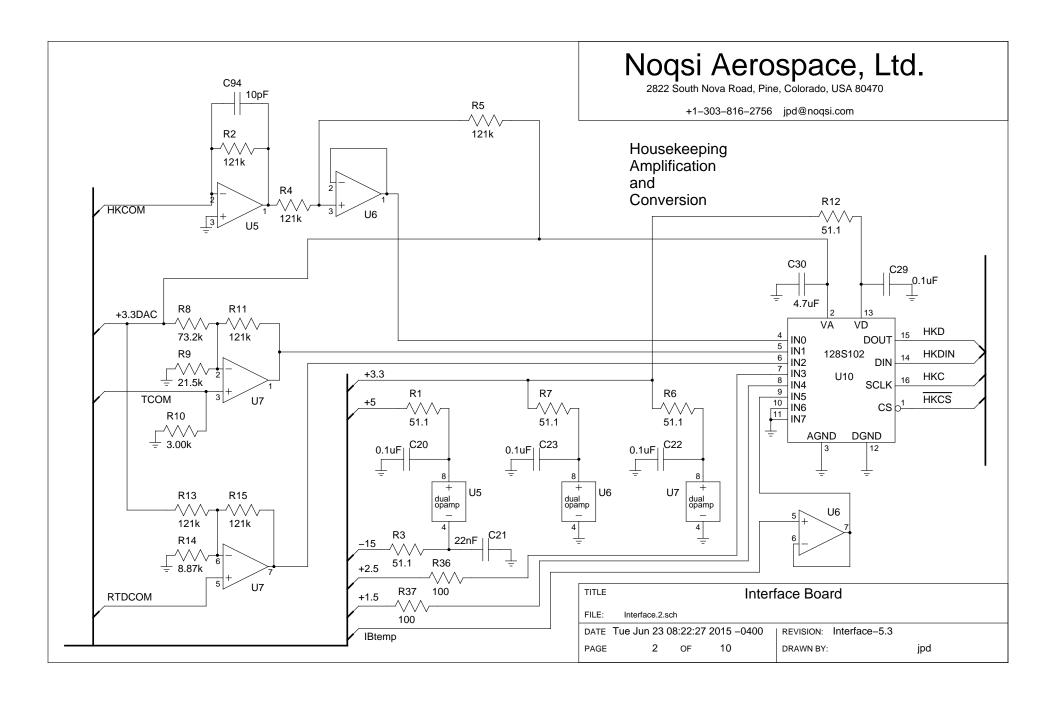






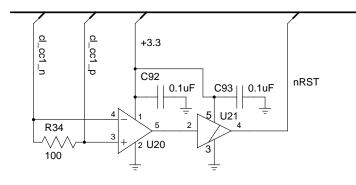






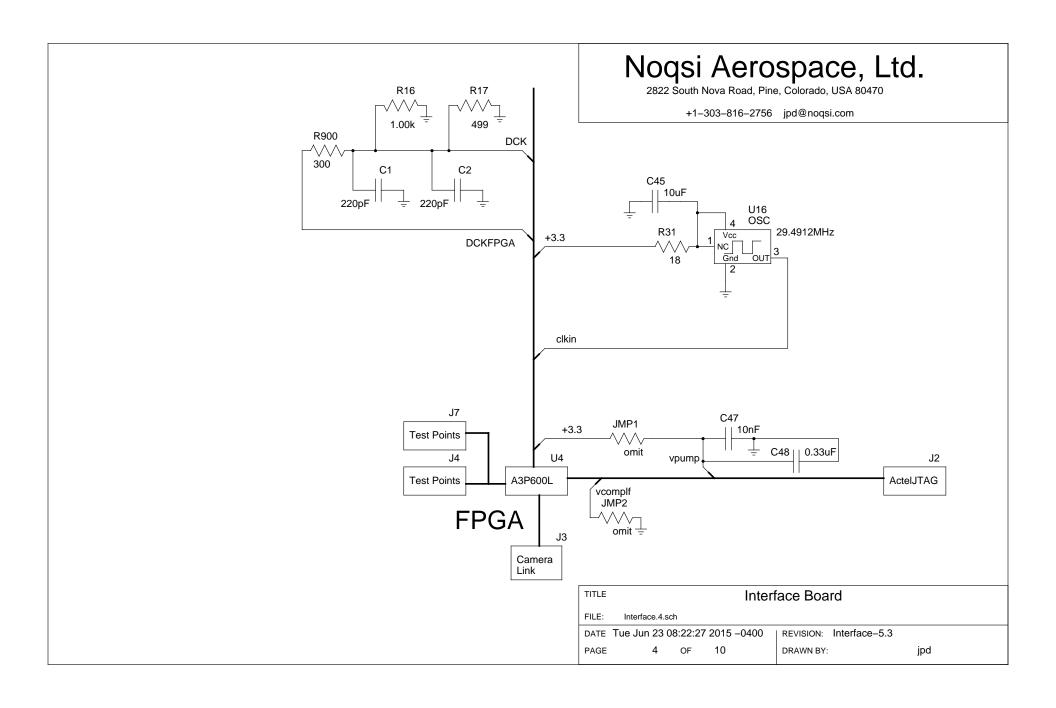
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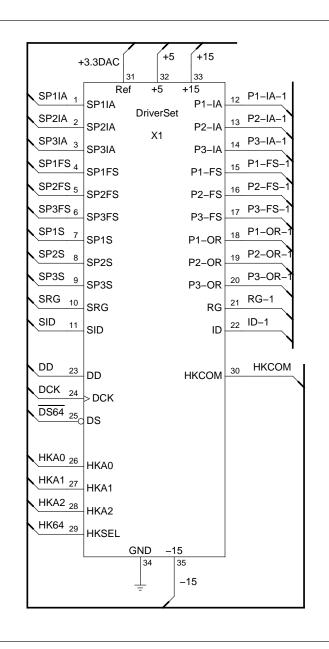
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Camera Control Inputs

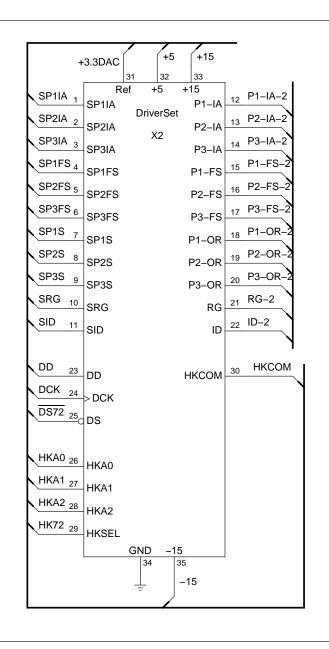
TITLE			Inter	face Boa	ırd		
FILE:	Interface.	3.sch					
DATE	Tue Jun 2	3 08:22:27	2015 -0400	REVISION:	Interface-5.3		
PAGE	3	OF	10	DRAWN BY:		jpd	





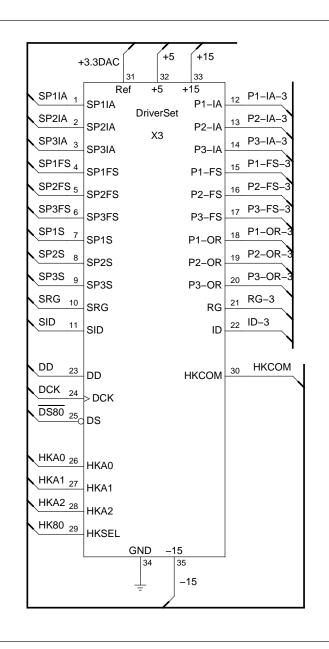
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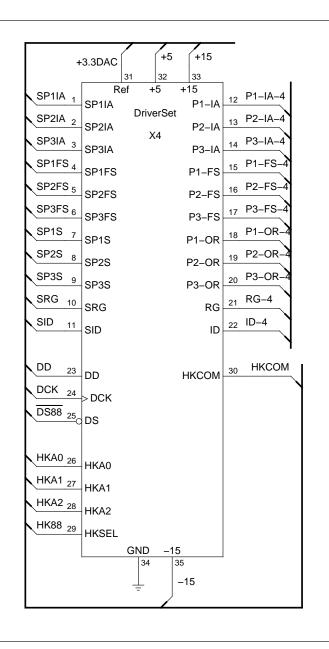
2822 South Nova Road, Pine, Colorado, USA 80470

TITLE	Interface Board					
FILE:	Interface.6	3.sch				
DATE	DATE Tue Jun 23 08:22:27 2015 -0400 REVISION: Interface-5.3					
PAGE	6	OF	10	DRAWN BY:	jpd	



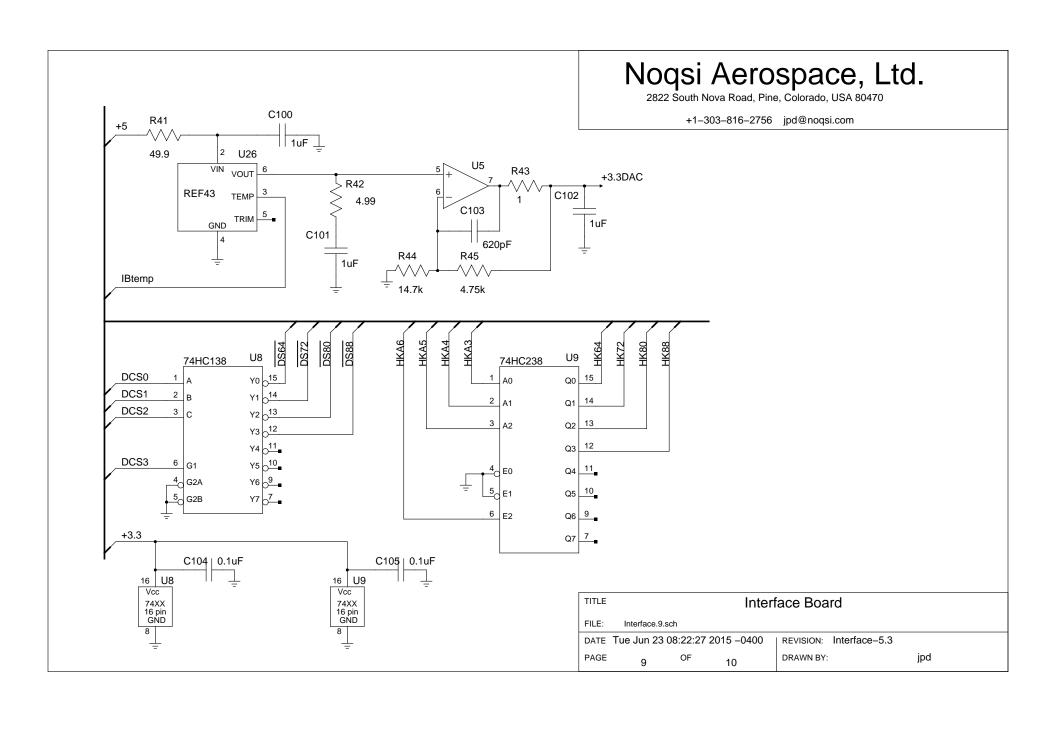
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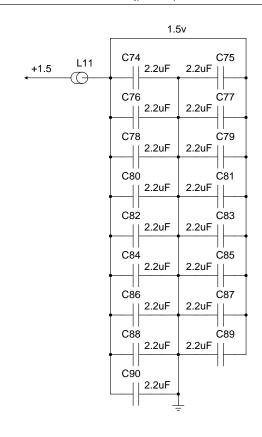
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FPGA Bypass 3.3v Capacitors C50 L9 +3.3 2.2uF 2.2uF C52 2.2uF 2.2uF C53 C54 2.2uF 2.2uF C55 C56 2.2uF 2.2uF C57 C58 2.2uF 2.2uF C59 C60 2.2uF C62 2.2uF 2.2uF C64 2.2uF 2.2uF C65 C66 2.2uF 2.2uF C67 2.5v 2.2uF C68 C69 L10 +2.5 2.2uF 2.2uF C70 C71 2.2uF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

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TITLE	Interface Board					
FILE:	Interface.10.	sch				
DATE	Tue Jun 23 (08:22:27	2015 –0400	REVISION:	Interface-5.3	
PAGE	10	OF	10	DRAWN BY:		jpd

Dec 08, 14 15:00		00	Interface.J2.txt	
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 20,	15 16:55	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	
I			

				Printed by John Do
Dec 08, 1			Interface.J4.txt	Page 1/1
Γ4 Γ4	1 2 3 4 5 6 7 8	<pre>tp_out[0] tp_out[1]</pre>		
г 4	3	tp_out[2]		
Γ4 Γ4	4	tp_out[3]		
г 4	6	tp_out[5]		
4	7 g	tp_out[4] tp_out[5] tp_out[6] tp_out[7]		
T	O	cp_ouc[7]		

l 00	45 40.05		video interconnect tyt	Dans 4/2
	, 15 12:25		video_interconnect.txt	Page 1/3
J8	A1	GND		
J8	B1	+24		
J6	A34	-15 . F		
Ј6 Ј8	B34	+5 SCK-1		
J8	A2 B2	-50		
J6	A33	GND		
J6	B33	+15		
J8	A3	GND		
J8	B3	P1-FS-1		
J6	A32	SCK-4		
J6	B32	ID-4		
J8	A4	CNV-1		
J8	В4	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	B6	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 A24	P2-IA-1		
Ј6 Ј6	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 J6	B14	GND GND		
# J6	A21 B21	+2.5		
J8	A15	GND		
J8	B15	DCS1		
J6	A20	GND		

	00 45 40 05		vides intersement tot	5 0/0
	20, 15 12:25		video_interconnect.txt	Page 2/3
J6	B20	GND		
J8	A16	GND		
Ј8 Ј6	B16 A19	DCS0 GND		
J6	B19	HKA0		
J8	A17	Int		
J8	B17	DCS2		
J6	A18	DD		
J6	B18	HKA1		
J8	A18	GND		
J8	B18	DCS3		
J6	A17	HKA3		
J6	В17	HKA2		
J8	A19	$_$ Hold $_$		
J8	B19	HKCOM		
J6	A16	HKA5		
J6	B16	HKA4		
J8	A20	GND		
J8 J6	B20	TCOM		
J6	A15 B15	GND HKA6		
J8	A21	Clamp		
J8	B21	RTDCOM		
J6	A14	GND		
J6	B14	DCK		
J8	A22	GND		
J8	B22	GND		
J6	A13	GND		
J6	B13	GND		
J8	A23	GND		
J8	B23	GND		
J6	A12	SCK-3		
J6	B12	GND		
J8	A24	SCK-2		
J8 J6	B24 A11	P1-FS-2 GND		
J6	B11	ID-3		
J8	A25	GND		
J8	B25	P2-FS-2		
J6	A10	CNV-3		
J6	B10	P1-OR-3		
J8	A26	CNV-2		
J8	B26	P3-FS-2		
J6	A9	GND		
J6	В9	P2-OR-3		
J8	A27	GND		
J8	B27	P3-OR-2		
J6	A8	SDO-D-3		
J6	B8	P3-OR-3		
J8 J8	A28 B28	SDO-A-2		
J6	B28 A7	P2-OR-2 GND		
J6	B7	P3-IA-3		
J8	A29	GND		
J8	B29	P1-OR-2		
J6	A6	SDO-C-3		
J6	В6	P2-IA-3		
J8	A30	SDO-B-2		
J8	B30	RG-2		

Jun	20, 15 12:25		video_interconnect.txt	Page 3/3
Ј6	A5	GND		
J6	B5	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 15:00	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	

Ju	ın 20, 15 16:55	Interface.U4.txt	Page 1/3
	Table of FPG		
		the name in the schematic	
		different, is the FPGA's internal name	
# 5	some prus con	mmented out with # because they arenâM-^@M-^Yt used	
U4	A1	GND	
U4	A2	ctrl_out	
U4	A3	ctrl_ina	
U4 U4	A4 A5	nRST DCS3	
U4	A6	SP3FS seq_dat5	
U4	A7	SRG seq_dat9	
U4	A8	FVAL seq_dat16	
U4	A9	LVAL seq_dat17	
U4	A10	DCS0	
U4 U4	A11 A12	HKA4 HKA2	
U4	A13	HKAO	
U4	A14	HKDIN HK_DIN	
U4	A15	HKC HKSCK	
U4	A16	GND	
U4 U4	B1 B2	<pre>cl_out1p cl_out0p</pre>	
U4	B3	GND GNDQ	
U4	B4	SP3IA seq_dat2	
U4	В5	DCS1	
U4	B6	SP1IA seq_dat0	
U4	B7	SP3S seq_dat8	
U4 U4	B8 B9	CNV seq_dat15 _Hold_ seq_dat12	
U4	B10	DCS2	
U4	B11	HKA3	
U4	B12	HKA1	
U4	B13 B14	HKD HK_D	
U4 U4	B14 B15	_HKCS_ HK_CS seq_clkp	
U4	B16	seq_clkn	
U4	C1	cl_out1n	
U4	C2	cl_out0n	
U4 U4	C3 C4	2.5v VMV3 SP2IA seq_dat1	
U4	C5	SP1FS seq_dat1 SP1FS seq_dat3	
U4	C6	reset	
U4	C7	SP2S seq_dat7	
U4	C8	seq_data[14] seq_dat14	
U4 U4	C9 C14	Clamp seq_dat11 3.3v VMV0	
U4	C14 C16	seq_strbp	
U4	D1	cl_out2n	
U4	D2	cl_out2p	
U4	D5	GND GNDQ	
U4 U4	D6 D7	SP2FS seq_dat4	
U4	D8	SP1S seq_dat6 SID seq_dat13	
U4	D12	GND GNDQ	
U4	D16	seq_strbn	
U4	E1	cl_out3p	
U4 U4	E5 E6	3.3v VMV0 3.3v VCCIB0	

In one of	00.45.40.55			Interfece III tyt	D 0/0
	20, 15 16:55			Interface.U4.txt	Page 2/3
U4	E7	3.3v	VCCIB0	1.0	
U4 U4	E8 E10	Int 3.3v	seq_dat VCCIB0	10	
U4	E11	3.3v 3.3v	VCCIB0		
U4	E12	3.3v	VMV1		
U4	E16	tp_out[(tp_out0	
U4	F1	cl_out3r			
U4	F5	2.5v	VCCIB3		
U4	F6	GND			
U4	F7	1.5v	VCC		
U4	F8	1.5v	VCC		
U4 U4	F9 F10	1.5v	VCC VCC		
U4	F10 F11	1.5v GND	VCC		
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 G9	GND			
U4 U4	G10	GND GND			
U4	G10 G11	1.5v	VCC		
U4	G12	3.3v	VCCIB1		
U4	G13	seq_act:		seq_actv	
U4	G16	tp_out[2		tp_out2	
U4	Н4	vcomplf		_	
U4	Н6	1.5v	VCC		
U4	H7	GND			
U4	H8	GND			
U4 U4	Н9 Н10	GND			
U4	H10 H11	$\frac{\text{GND}}{1.5\text{v}}$	VCC		
U4	H16	tp_out[3		tp_out3	
U4	J3	1.5v	VCCPL		
U4	Ј6	1.5v	VCC		
U4	J7	GND			
U4	J8	GND			
U4	J9	GND			
U4	J10 T11	GND	7700		
U4 U4	J11 J16	1.5v clkin	VCC		
U4 U4	K5	2.5v	VCCIB3		
U4	K6	1.5v	VCCIBS		
U4	K7	GND	-		
U4	K8	GND			
U4	К9	GND			
U4	K10	GND			
U4	K11	1.5v	VCC		
U4	K12	3.3v	VCCIB1		
U4 U4	K13 K16	SDO-D-1 tp_out[4		to out 1	
U4 U4	L3	ctrl_out		tp_out4	
U4	L5	2.5v	VCCIB3		
U4	L6	GND			
U4	L7	1.5v	VCC		
U4	L8	1.5v	VCC		

	00 45 40 55		Intoutage IIA test	D 0/2
	20, 15 16:55		Interface.U4.txt	Page 3/3
U4	L9	1.5v VCC		
U4 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	M8	SDO-D-4 sdo15		
U4 U4	M9 M10	SDO-C-4 sdo14 3.3v VCCIB2		
U4	M10 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	SDO-A-4 sdo12		
U4	N12	GND GNDQ		
U4 U4	N13 N14	SDO-C-2 sdo6 3.3v VJTAG		
U4	N14 N15	SDO-A-1 sdo0		
U4	N16	tp_out[7]	tp_out7	
U4	P1	ctrl_ina_p	o <u>r</u> _ouc,	
U4	P2	ctrl_ina_n		
U4	P3	3.3v VMV2		
U4	P9	CNV-4 cnv4		
U4	P10	CNV-3 cnv3		
U4	P11	CNV-2 $cnv2$		
U4 U4	P12 P13	3.3v VMV1 tck TCK		
U4	P14	vpump VPUMP		
U4	P15	trst TRST		
U4	P16	cwclk CWCLK		
U4	R3	нкаб		
U4	R9	SCK-3 sck3		
U4	R10	SCK-1 sck1		
U4	R11	CNV-1 cnv1		
U4 U4	R12 R13	SDO-C-3 sdo10 SDO-D-2 sdo7		
U4 U4	R13 R14	tdi TDI		
U4	R15	GND GNDQ		
U4	R16	tdo TDO		
U4	T1	GND		
U4	Т2	DD		
U4	Т3	DCKFPGA		
U4	T4	HKA5		
U4	T8	SCK-4 sck4		
U4	T9	SCK-2 sck2		
U4 U4	T12 T13	SDO-D-3 sdo11 SDO-B-3 sdo9		
U4	T14	SDO-B-3 SdO9 SDO-A-3 sdo8		
U4	T15	tms TMS		
U4	T16	GND		

Jun 23,	15 8:36		Interface.bom	.txt		Page 1/26
refdes	device value	spec	footprint	descrip	tion	
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		20.5 0.0 = 0.0
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		20.5 0.2 0.2
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
C52	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
C50	CAPACITOR	2.2uF	6.3WVDC X5R	0603	Ceramic	capacitor
C67	CAPACITOR	2.2uF	6.3WVDC X5R	0603	Ceramic	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	Ceramic	capacitor
C59	CAPACITOR	2.2uF	6.3WVDC X5R	0603	Ceramic	capacitor
C57	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
C55	CAPACITOR	2.2uF	6.3WVDC X5R	0603	Ceramic	capacitor
C53	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
C51	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
C49	CAPACITOR	2.2uF	6.3WVDC X5R	0603		capacitor
C105	CAPACITOR	0.1uF	25WVDC X7R	0603		capacitor
U9	74HC238 unknown			ce_confl:	ict	
C104	CAPACITOR	0.1uF	25WVDC X7R	0603		capacitor
U8	74HC138 unknown			ce_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	Resisto	r
00/50						

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U26	REFERENC		REF43GS		S08	2.5V Ref		
X4/R12	RESISTOR		3.74k	1% 1/10V		0603	Resistor	
X4/R11	RESISTOR		3.74k	1% 1/10V		0603	Resistor	
X4/C7	CAPACITO		0.1uF		0603		capacito	
X4/R10 X4/C6	RESISTOR CAPACITO		49.9 0.1uF	1% 1/10W 10WVDC	v 0603	0603	Resistor capacito	
	CAPACITO CAPACITO			50WVDC >		0603	Capacic	capacitor
X4/U3	MAX308C			unknown			analog r	
	CAPACIT(50WVDC 2		0603		capacitor
X4/U2	AD5328			TSSOP16			CCIAMIC	capacitoi
X4/X1/Z		ZENER_DI		BZV55-B3			SOD80C	unknown
X4/X1/Z	2	ZENER_DI	ODE	BZV55-B3	3V3	unknown	SOD80C	unknown
X4/X1/C	11	CAPACITO)R	22nF	50WVDC	0603	Ceramic	capacitor
X4/X1/C		CAPACITO)R	22nF	50WVDC	0603		capacitor
X4/X1/C		CAPACITO		22nF	50WVDC	0603		capacitor
X4/X1/C		CAPACITO		1uF	25WVDC	1812		capacitor
X4/X1/C		CAPACITO		1uF		1812		capacitor
X4/X1/R		RESISTOR		604k	1% 1/10V		0603	Resistor
X4/X1/R		RESISTOR		604k	1% 1/10V		0603	Resistor
X4/X1/C		CAPACITO		22nF 10	50WVDC 1% 1W	0603 2512	Ceramic Resistor	capacitor
X4/X1/R X4/X1/C		RESISTOR CAPACITO		10 1uF		1812		capacitor
X4/X1/C		RESISTOR		33.2k	1% 1/10V		0603	Resistor
X4/X1/X				unknown		unknown	0003	Resiscoi
X4/X1/C		CAPACITO		47pF	50WVDC	0603	Ceramic	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	Resistor	2
X4/X1/C	8	CAPACITO)R	1uF	25WVDC	1812		capacitor
X4/X1/R	2	RESISTOR	2	301k	1% 1/10W		0603	Resistor
X4/X1/C		CAPACITO		330pF	50WVDC	0603		capacitor
X4/X1/R		RESISTOR		10k	1% 1/10W		0603	Resistor
X4/X1/Q				unknown		unknown	0.600	
X4/X1/R		RESISTOR		10k	1% 1/10V		0603	Resistor
X4/X1/R		RESISTOR		10k 330pF	1% 1/10W 50WVDC	v 0603	0603	Resistor capacitor
X4/X1/C X4/X1/C		CAPACITO CAPACITO		22nF	50WVDC	0603		capacitor
X4/X1/C		CAPACITO		22nF	50WVDC	0603		capacitor
X4/X1/R		RESISTOR		10k	1% 1/10W		0603	Resistor
X4/X1/R		RESISTOR		10k	1% 1/10V		0603	Resistor
X4/X1/R		RESISTOR		60.4k	1% 1/10W		0603	Resistor
X4/X1/R	13	RESISTOR	2	75k	1% 1/10W	V	0603	Resistor
X4/X1/R	14	RESISTOR	2	301k	1% 1/10W	V	0603	Resistor
X4/X1/U	2	DUAL_OPA	MP	LM6142A1	M	N/A	S08	attribute_confli
ct								
X4/X1/R		RESISTOR		54.9k	1% 1/10W		0603	Resistor
X4/X1/R		RESISTOR		54.9k	1% 1/10V		0603	Resistor
X4/X1/R		RESISTOR		301k	1% 1/10V		0603	Resistor
X4/X1/U	T	DUAL_OPA	MIL	LM6142A1	_ I∧I	N/A	S08	attribute_confli
ct X4/X2/C	3	CAPACITO	NP	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		1uF	25WVDC	1812		capacitor
X4/X2/C		CAPACITO		1uF	25WVDC	1812	Ceramic	capacitor
X4/X2/R		RESISTOR		3.74k	1% 1/10V		0603	Resistor
X4/X2/R	1	RESISTOR	2	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		0603	Resistor
X4/X2/X2/Q1	PMOS-SO8	IRF9333	unknown	SO8	P channe	el MOS transistor
(enhancement	type)					
X4/X2/X2/R6	RESISTOR	3.74k	1% 1/10	M	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	W	0603	Resistor
X4/X2/X2/R7	RESISTOR	200	1% 1/10	M	0603	Resistor
X4/X2/X2/Q4	NPN_TRANSISTOR	MMBT222	2A		SOT23	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
	cor (enhancement ty		_	_	_	_
X4/X2/X1/Q1	PMOS-SO8	IRF9333	unknown	SO8	P chann	el MOS transistor
(enhancement					0-0-	
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			SOT23	unknown
X4/X2/X1/Q3	PNP_TRANSISTOR	MMBT290'		unknown		unknown
X4/X2/X1/R2	RESISTOR	1 1	1% 1W 1% 1W	2512 2512	Resisto:	
X4/X2/X1/R1 X4/X2/X1/Q2	RESISTOR NMOS_TRANSISTOR					generic N channe
	or (enhancement ty		U	ulikilowii	10232AA	generic w 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/R5	RESISTOR	100	1% 1/10		0603	Resistor
X4/X2/U1		unknown			OT switch	
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	Ceramic	capacitor
X4/X3/C6	CAPACITOR	1uF	25WVDC	1812	Ceramic	capacitor
X4/X3/C5	CAPACITOR	1uF	25WVDC	1812	Ceramic	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		0603	Resistor
X4/X3/R6	RESISTOR	3.74k	1% 1/10		0603	Resistor
X4/X3/X2/Q1	PMOS-SO8	IRF9333	unknown	S08	P chann	el MOS transistor
(enhancement		2 541	10 1 11 1		0.603	D
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	MMBT2222 MMBT290		unknown unknown		unknown unknown
X4/X3/X2/Q3 X4/X3/X2/R2	PNP_TRANSISTOR RESISTOR	MMB1290	/A 1% 1W	unknown 2512	Resisto	
X4/X3/X2/R2 X4/X3/X2/R1	RESISTOR	1	1% 1W 1% 1W	2512 2512	Resisto:	
X4/X3/X2/R1 X4/X3/X2/Q2	NMOS_TRANSISTOR					generic N channe
	cor (enhancement ty		O	CITIZITOWII	IOZJZAA	action to the citating
X4/X3/X1/Q1	PMOS-SO8		unknown	SOS	P chann	el MOS transistor
(enhancement		III	WIIIZIIO MII	500	i Chain	CI PIOD CLAIIBIBCOL
x4/x3/x1/R6	RESISTOR	3.74k	1% 1/10	W	0603	Resistor
04/50						F

		1	1-	11		
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X4/X3/X1/R5	RESISTOR	3.74k	1% 1/10		0603	Resistor
X4/X3/X1/R4	RESISTOR	3.74k	1% 1/10		0603	Resistor
X4/X3/X1/R3	RESISTOR	3.74k	1% 1/10		0603	Resistor
X4/X3/X1/R7	RESISTOR	200	1% 1/10	W	0603	Resistor
X4/X3/X1/Q4	NPN_TRANSISTOR	MMBT222	2A	unknown	SOT23	unknown
X4/X3/X1/Q3	PNP_TRANSISTOR	MMBT290	7A	unknown	SOT23	unknown
X4/X3/X1/R2	RESISTOR	1	1% 1W	2512	Resisto	r
X4/X3/X1/R1	RESISTOR	1	1% 1W	2512	Resisto	r
X4/X3/X1/Q2	NMOS_TRANSISTOR	IRFR341	0	unknown	TO252AA	generic N channe
1 MOS transisto	r (enhancement ty	ype)				
X4/X3/R3	RESISTOR	100	1% 1/10	W	0603	Resistor
X4/X3/R4	RESISTOR	100	1% 1/10	W	0603	Resistor
X4/X3/R5	RESISTOR	100	1% 1/10	W	0603	Resistor
X4/X3/U1	DG403 unknown	unknown	S016	Dual SP	DT switcl	h
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		capacitor
X4/X4/C4	CAPACITOR	1uF	25WVDC	1812		capacitor
X4/X4/C6	CAPACITOR	1uF	25WVDC	1812	Ceramic	capacitor
X4/X4/C5	CAPACITOR	1uF	25WVDC	1812	Ceramic	capacitor
X4/X4/R2	RESISTOR	3.74k	1% 1/10	W	0603	Resistor
X4/X4/R1	RESISTOR	3.74k	1% 1/10	W	0603	Resistor
X4/X4/R7	RESISTOR	3.74k	1% 1/10	W	0603	Resistor
X4/X4/R6	RESISTOR	3.74k	1% 1/10	W	0603	Resistor
X4/X4/X2/Q1	PMOS-SO8	IRF9333	unknown	S08	P channe	el MOS transistor
(enhancement t	ype)					
X4/X4/X2/R6	RESISTOR	3.74k	1% 1/10	W	0603	Resistor
X4/X4/X2/R5	RESISTOR	3.74k	1% 1/10		0603	Resistor
X4/X4/X2/R4	RESISTOR	3.74k	1% 1/10		0603	Resistor
X4/X4/X2/R3	RESISTOR	3.74k	1% 1/10		0603	Resistor
X4/X4/X2/R7	RESISTOR	200	1% 1/10		0603	Resistor
X4/X4/X2/Q4	NPN TRANSISTOR	MMBT222		unknown		unknown
X4/X4/X2/Q3	PNP_TRANSISTOR	MMBT290	7A	unknown	SOT23	unknown
X4/X4/X2/R2	RESISTOR	1	1% 1W	2512	Resisto	
X4/X4/X2/R1	RESISTOR	1	1% 1W	2512	Resisto	r
X4/X4/X2/Q2	NMOS_TRANSISTOR	IRFR341			TO252AA	generic N channe
	r (enhancement ty					3
X4/X4/X1/Q1	PMOS-SO8		unknown	S08	P channe	el MOS transistor
(enhancement t						
X4/X4/X1/R6	RESISTOR	3.74k	1% 1/10	W	0603	Resistor
X4/X4/X1/R5	RESISTOR	3.74k	1% 1/10		0603	Resistor
X4/X4/X1/R4	RESISTOR	3.74k	1% 1/10		0603	Resistor
X4/X4/X1/R3	RESISTOR	3.74k	1% 1/10		0603	Resistor
X4/X4/X1/R7	RESISTOR	200	1% 1/10		0603	Resistor
X4/X4/X1/Q4	NPN_TRANSISTOR				SOT23	unknown
X4/X4/X1/Q3	PNP_TRANSISTOR			unknown		unknown
X4/X4/X1/R2	RESISTOR	1		2512	Resisto	
X4/X4/X1/R1	RESISTOR	1		2512	Resisto	
X4/X4/X1/Q2	NMOS_TRANSISTOR					generic N channe
	r (enhancement ty		-	3.2.2.2.10 1111		5-11-2-2-1, 011-01111-0
X4/X4/R3	RESISTOR	100	1% 1/10	W	0603	Resistor
X4/X4/R4	RESISTOR	100	1% 1/10		0603	Resistor
X4/X4/R5	RESISTOR	100	1% 1/10		0603	Resistor
X4/X4/U1	DG403 unknown			" Dual SP		
X4/X10/R22	RESISTOR	604k	1% 1/10		0603	Resistor
X4/X10/R22 X4/X10/R21	RESISTOR	604k	1% 1/10		0603	Resistor
X4/X10/R21 X4/X10/C10	CAPACITOR	luF	25WMC	W 1812		capacitor
X4/X10/C10 X4/X10/C9	CAPACITOR	luF	25WVDC 25WVDC	1812		capacitor
27 ATU/ CJ	CALACTION	T OT.	2 2 W V DC	T O T Z	CCLAIIIIC	Capacitoi

r X4/X9/R5 RESISTOR 100 1% 1/10W 0603 Resistor X4/X9/C1 CAPACITOR 0.1uF 25WVDC X7R 0603 Ceramic capacito r X4/X9/U1 DG403 unknown unknown SO16 Dual SPDT switch 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/R6 RESISTOR 75 1% 1/10W 0603 Resistor X4/X8/R3 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	Jun 23, 15 8:36		Interfa	ace.bom.txt		Page 5/26
X4/X10/R26 CAPACITOR 10 1% 1/10W 0603 Resistor X4/X10/R18 RESISTOR 10K 1% 1/10W 0603 Resistor X4/X10/R18 RESISTOR 12.7 1% 1/10W 0603 Resistor X4/X10/R18 RESISTOR 12.7 1% 1/10W 0603 Resistor X4/X10/R18 RESISTOR 20K 1% 1/10W 0603 Resistor X4/X10/R18 RESISTOR 20K 1% 1/10W 0603 Resistor X4/X10/R17 RESISTOR 20K 1% 1/10W 0603 Resistor X4/X10/R17 RESISTOR 20K 1% 1/10W 0603 Resistor X4/X10/C1 CAPACITOR 1	X4/X10/C4	CAPACITOR		10WVDC 0603	Ceramic	
X4/X10/R18 RESISTOR 10k 1½ 1/10W 0603 Resistor X4/X10/R19 NPR.TRANSISTOR X4/X10/R16 RESISTOR X4/X10/R17 RESISTOR X4/X10/R18 RESISTOR X4/X10/R19	X4/X10/R20	RESISTOR	10	1% 1/10W		
X4/X10/Q69	X4/X10/C8	CAPACITOR	1uF		Ceramic	capacitor
X4/X10/R19 RESISTOR 12.7 1 1 1/10W 0603 Resistor X4/X10/R16 RESISTOR 20k 1 1/10W 0603 Resistor X4/X10/R17 RESISTOR 499 1 1/10W 0603 Resistor X4/X10/R17 RESISTOR 499 1 1/10W 0603 Resistor X4/X10/R13 RESISTOR 1 k 1 1/10W 0603 Resistor X4/X10/R13 RESISTOR 32.4 k 1 ½ 1/10W 0603 Resistor X4/X10/R13 RESISTOR 30.1 k 1 ½ 1/10W 0603 Resistor X4/X10/R13 RESISTOR 30.1 k 1 ½ 1/10W 0603 Resistor X4/X10/R13 RESISTOR 30.1 k 1 ½ 1/10W 0603 Resistor X4/X10/R11 RESISTOR 30.1 k 1 ½ 1/10W 0603 Resistor X4/X10/R1 RESISTOR 49.9 l 1 ½ 1/10W 0603 Resistor X4/X10/R1 RESISTOR 49.9 l 1 ½ 1/10W 0603 Resistor	X4/X10/R18	RESISTOR				Resistor
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r	r					

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X4/X8/U1	Jun 23, 15 8:36		Interfa	ace.bom.txt		Page 6/26
x4/x8/V1	X4/X8/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X4/X8/U1	X4/X8/C1	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
X4/X7/R9						
X4/X7/R8						
X4/X7/R6						
X4/X7/R6						
X4/X7/R3						
X4/X7/C3						
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X4/X7/R4		CAPACTTOR	0.luf	25WVDC X/R	0603	Ceramic capacito
X4/X7/C2		DECICEOD	100	19, 1/101	0602	Dogiston
x4/x7/x5						
X4/X7/R5		CAPACITOR	U.lur	TOWVDC X/R	0003	Ceramic Capacito
X4/X7/C1	-	PFSTSTOP	100	1% 1/10W	0603	Registor
x4/x7/U1 DG403 unknown unknown SO16 Dual SPDT switch						
X4/X7/U1		CALACTION	0.1ar	Z3WVDC X/IC	0003	ceramic capacito
X4/X6/R9		DG403 unknown	unknown	SO16 Dual SPI	OT switch	n
X4/X6/R8	·					
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X4/X6/U1 DG403 unknown unknown S016 Dual SPDT switch 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 Ceramic capacitor X4/X5/C9 CAPACITOR 1uF 25WVDC 1812 Ceramic capacitor X4/X5/C4 CAPACITOR 0.1uF 10WVDC 0603 Ceramic capacitor X4/X5/C8 CAPACITOR 1uF 25WVDC 1812 Ceramic capacitor X4/X5/C8 CAPACITOR 1uF 25WVDC 1812 Ceramic capacitor X4/X5/R18 RESISTOR 10k 1% 1/10W 0603 Resistor X4/X5/R19 RESISTOR 10k 1% 1/10W 0603 Resistor X4/X5/R16 RESISTOR 12.7 1% 1/10W 0603 Resistor X4/X5/R16 RESISTOR 499 1% 1/10W 0603 Resistor		CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
X4/X5/R22 RESISTOR 604k 1% 1/10W 0603 Resistor X4/X5/R21 RESISTOR 604k 1% 1/10W 0603 Resistor X4/X5/C20 CAPACITOR 1uF 25WVDC 1812 Ceramic capacitor X4/X5/C9 CAPACITOR 1uF 25WVDC 1812 Ceramic capacitor X4/X5/C4 CAPACITOR 0.1uF 10WVDC 0603 Ceramic capacitor X4/X5/C8 CAPACITOR 1uF 25WVDC 1812 Ceramic capacitor X4/X5/R18 RESISTOR 1uF 25WVDC 1812 Ceramic capacitor X4/X5/R18 RESISTOR 1uF 25WVDC 1812 Ceramic capacitor X4/X5/R19 RESISTOR 1uK 1*1/10W 0603 Resistor X4/X5/Q6 NPN_TRANSISTOR MMBT2222A unknown SOT23 unknown X4/X5/R16 RESISTOR 20k 1*1/10W 0603 Resistor X4/X5/R17 RESISTOR 49 1*1/10W 0603 Resistor <td></td> <td>DG400</td> <td>1</td> <td>2016 5 3 25</td> <td></td> <td></td>		DG400	1	2016 5 3 25		
X4/X5/R21 RESISTOR 604k 1% 1/10W 0603 Resistor X4/X5/C10 CAPACITOR 1uF 25WVDC 1812 Ceramic capacitor X4/X5/C9 CAPACITOR 1uF 25WVDC 1812 Ceramic capacitor X4/X5/C4 CAPACITOR 0.1uF 10WVDC 0603 Ceramic capacitor X4/X5/C8 CAPACITOR 1uF 25WVDC 1812 Ceramic capacitor X4/X5/R8 CAPACITOR 1uF 25WVDC 1812 Ceramic capacitor X4/X5/R8 RESISTOR 10k 1% 1/10W 0603 Resistor X4/X5/R19 RESISTOR 10k 1% 1/10W 0603 Resistor X4/X5/R19 RESISTOR 12.7 1% 1/10W 0603 Resistor X4/X5/R19 RESISTOR 12.7 1% 1/10W 0603 Resistor X4/X5/R16 RESISTOR 20k 1% 1/10W 0603 Resistor X4/X5/R17 RESISTOR 499 1% 1/10W 0603 Resistor						
X4/X5/C10 CAPACITOR 1uf 25WVDC 1812 Ceramic capacitor X4/X5/C9 CAPACITOR 1uf 25WVDC 1812 Ceramic capacitor X4/X5/C4 CAPACITOR 0.1uf 10WVDC 0603 Ceramic capacitor X4/X5/R20 RESISTOR 10 1% 1/10W 0603 Resistor X4/X5/R18 RESISTOR 10k 1% 1/10W 0603 Resistor X4/X5/R18 RESISTOR 10k 1% 1/10W 0603 Resistor X4/X5/Q6 NPN_TRANSISTOR MMBT2222A unknown SOT23 unknown X4/X5/Q5 NPN_TRANSISTOR MMBT2222A unknown SOT23 unknown X4/X5/R16 RESISTOR 20k 1% 1/10W 0603 Resistor X4/X5/R17 RESISTOR 499 1% 1/10W 0603 Resistor X4/X5/R13 RESISTOR 0.1uf 10WVDC 0603 Resistor X4/X5/R14 RESISTOR 32.4k 1% 1/10W 0603 Resistor <						
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X4/X5/C4 CAPACITOR 0.1uf 10WVDC 0603 Ceramic capacitor X4/X5/C8 CAPACITOR 10 1% 1/10W 0603 Resistor X4/X5/C8 CAPACITOR 1uf 25WVDC 1812 Ceramic capacitor X4/X5/R18 RESISTOR 10k 1% 1/10W 0603 Resistor X4/X5/Q6 NPN_TRANSISTOR MMBT2222A unknown SOT23 unknown X4/X5/R19 RESISTOR 12.7 1% 1/10W 0603 Resistor X4/X5/Q5 NPN_TRANSISTOR MMBT2222A unknown SOT23 unknown X4/X5/R16 RESISTOR 20k 1% 1/10W 0603 Resistor X4/X5/Q4 PNP_TRANSISTOR 499 1% 1/10W 0603 Resistor X4/X5/C7 CAPACITOR 0.1uf 10WVDC 0603 Ceramic capacitor X4/X5/R13 RESISTOR 1k 1% 1/10W 0603 Resistor X4/X5/R15 RESISTOR 30.1k 1% 1/10W 0603 Resistor						
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X4/X5/C8 CAPACITOR luf 25WVDC 1812 Ceramic capacitor X4/X5/R18 RESISTOR 10k 1% 1/10W 0603 Resistor X4/X5/Q6 NPN_TRANSISTOR MMBT2222A unknown SOT23 unknown X4/X5/R19 RESISTOR 12.7 1% 1/10W 0603 Resistor X4/X5/Q5 NPN_TRANSISTOR MMBT2222A unknown 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 MMBT2907A unknown SOT23 unknown X4/X5/R13 RESISTOR 0.1uf 10WVDC 0603 Ceramic capacitor X4/X5/R14 RESISTOR 1k 1% 1/10W 0603 Resistor X4/X5/R15 RESISTOR 301k 1% 1/10W 0603 Resistor X4/X5/R11 RESISTOR 10 1% 1/10W 0603 Resistor						
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X4/X5/R17 RESISTOR 499 1% 1/10W 0603 Resistor X4/X5/Q4 PNP_TRANSISTOR MMBT2907A unknown SOT23 unknown X4/X5/C7 CAPACITOR 0.1uF 10WVDC 0603 Ceramic capacitor X4/X5/R13 RESISTOR 1k 1% 1/10W 0603 Resistor X4/X5/R14 RESISTOR 32.4k 1% 1/10W 0603 Resistor X4/X5/C6 CAPACITOR 4.7pF 10WVDC 0603 Ceramic capacitor X4/X5/R11 RESISTOR 10 1% 1/10W 0603 Resistor X4/X5/C1 CAPACITOR 4.7pF 10WVDC 0603 Ceramic capacitor X4/X5/Q1 NPN_TRANSISTOR MMBT2222A unknown SOT23 unknown X4/X5/R10 RESISTOR 49.9 1% 1/10W 0603 Resistor X4/X5/C5 CAPACITOR 0.1uF 10WVDC 0603 Ceramic capacitor X4/X5/U1 DUAL_OPAMP LM6142AIM N/A SO8 attribute_confli						
X4/X5/Q4 PNP_TRANSISTOR MMBT2907A unknown SOT23 unknown X4/X5/C7 CAPACITOR 0.1uF 10WVDC 0603 Ceramic capacitor X4/X5/R13 RESISTOR 1k 1% 1/10W 0603 Resistor X4/X5/R14 RESISTOR 32.4k 1% 1/10W 0603 Resistor X4/X5/C6 CAPACITOR 4.7pF 10WVDC 0603 Ceramic capacitor X4/X5/R15 RESISTOR 301k 1% 1/10W 0603 Resistor X4/X5/R11 RESISTOR 10 1% 1/10W 0603 Resistor X4/X5/Q1 NPN_TRANSISTOR MMBT2222A unknown SOT23 unknown X4/X5/R7 RESISTOR 49.9 1% 1/10W 0603 Resistor X4/X5/R10 RESISTOR 49.9 1% 1/10W 0603 Resistor X4/X5/C5 CAPACITOR 0.1uF 10WVDC 0603 Ceramic capacitor X4/X5/U1 DUAL_OPAMP LM6142AIM N/A S08 attribute_conf						
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X4/X5/R13 RESISTOR 1k 1% 1/10W 0603 Resistor X4/X5/R14 RESISTOR 32.4k 1% 1/10W 0603 Resistor X4/X5/C6 CAPACITOR 4.7pF 10WVDC 0603 Ceramic capacitor X4/X5/R15 RESISTOR 301k 1% 1/10W 0603 Resistor X4/X5/R11 RESISTOR 10 1% 1/10W 0603 Resistor X4/X5/C1 CAPACITOR 4.7pF 10WVDC 0603 Ceramic capacitor X4/X5/Q1 NPN_TRANSISTOR MMBT2222A unknown SOT23 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 Ceramic capacitor X4/X5/U1 DUAL_OPAMP LM6142AIM N/A SO8 attribute_conflii		_				
X4/X5/R14 RESISTOR 32.4k 1% 1/10W 0603 Resistor X4/X5/C6 CAPACITOR 4.7pF 10WVDC 0603 Ceramic capacitor X4/X5/R15 RESISTOR 301k 1% 1/10W 0603 Resistor X4/X5/R11 RESISTOR 10 1% 1/10W 0603 Resistor X4/X5/C1 CAPACITOR 4.7pF 10WVDC 0603 Ceramic capacitor X4/X5/Q1 NPN_TRANSISTOR MMBT2222A unknown SOT23 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 Ceramic capacitor X4/X5/U1 DUAL_OPAMP LM6142AIM N/A S08 attribute_confli						
$\begin{array}{cccccccccccccccccccccccccccccccccccc$						
X4/X5/R15 RESISTOR 301k 1% 1/10W 0603 Resistor X4/X5/R11 RESISTOR 10 1% 1/10W 0603 Resistor X4/X5/C1 CAPACITOR 4.7pF 10WVDC 0603 Ceramic capacitor X4/X5/Q1 NPN_TRANSISTOR MMBT2222A unknown SOT23 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 Ceramic capacitor X4/X5/U1 DUAL_OPAMP LM6142AIM N/A S08 attribute_confli						
X4/X5/R11 RESISTOR 10 1% 1/10W 0603 Resistor X4/X5/C1 CAPACITOR 4.7pF 10WVDC 0603 Ceramic capacitor X4/X5/Q1 NPN_TRANSISTOR MMBT2222A unknown SOT23 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 Ceramic capacitor X4/X5/U1 DUAL_OPAMP LM6142AIM N/A SO8 attribute_confli						
X4/X5/C1 CAPACITOR 4.7pF 10WVDC 0603 Ceramic capacitor X4/X5/Q1 NPN_TRANSISTOR MMBT2222A unknown SOT23 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 Ceramic capacitor X4/X5/U1 DUAL_OPAMP LM6142AIM N/A SO8 attribute_confli						
X4/X5/Q1 NPN_TRANSISTOR MMBT2222A unknown SOT23 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 Ceramic capacitor X4/X5/U1 DUAL_OPAMP LM6142AIM N/A S08 attribute_confli						
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 Ceramic capacitor X4/X5/U1 DUAL_OPAMP LM6142AIM N/A S08 attribute_confli						
X4/X5/R10 RESISTOR 49.9 1% 1/10W 0603 Resistor X4/X5/C5 CAPACITOR 0.1uF 10WVDC 0603 Ceramic capacitor X4/X5/U1 DUAL_OPAMP LM6142AIM N/A S08 attribute_confli	1 - T					
X4/X5/C5 CAPACITOR 0.1uF 10WVDC 0603 Ceramic capacitor X4/X5/U1 DUAL_OPAMP LM6142AIM N/A SO8 attribute_confli						
X4/X5/U1 DUAL_OPAMP LM6142AIM N/A SO8 attribute_confli						
ct						
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X4/X5/R8	8	RESISTO:	 R	10k	1% 1/10	W	0603	Resistor
X4/X5/R2		RESISTO		26.7k	1% 1/10		0603	Resistor
X4/X5/R2		RESISTO		34.0k	1% 1/10		0603	Resistor
X4/X5/C2		CAPACIT		0.1uF		0603		capacitor
X4/X5/R3		RESISTO		1k	1% 1/10		0603	Resistor
X4/X5/R4		RESISTO		32.4k	1% 1/10		0603	Resistor
X4/X5/R5	5	RESISTO	R	301k	1% 1/10	W	0603	Resistor
X4/X5/R6	б	RESISTO:	R	20k	1% 1/10	W	0603	Resistor
X4/X5/C3	3	CAPACIT	OR	1uF	25WVDC	1812	Ceramic	capacitor
X4/X5/R9	9	RESISTO:	R	12.7	1% 1/10		0603	Resistor
X4/X5/Q3			NSISTOR	MMBT2907		unknown		unknown
X4/X5/Q2		PNP_TRA		MMBT2907		unknown		unknown
X4/X11/F		RESISTO:		75	1% 1/10		0603	Resistor
X4/X11/F		RESISTO:		75	1% 1/10		0603	Resistor
X4/X11/F		RESISTO:		75	1% 1/10		0603	Resistor
X4/X11/F		RESISTO		75	1% 1/10		0603	Resistor
X4/X11/F		RESISTO:		100	1% 1/10°		0603	Resistor
x4/x11/0 r		CAPACIT		0.1uF	25WVDC		0603	Ceramic capacito
X4/X11/F		RESISTO:		100	1% 1/10		0603	Resistor
x4/x11/0	C2	CAPACIT	OR	0.1uF	16WVDC	X7R	0603	Ceramic capacito
X4/X11/F	R.5	RESISTO	R	100	1% 1/10	W	0603	Resistor
X4/X11/0	C1	CAPACIT	OR	0.1uF	25WVDC	X7R	0603	Ceramic capacito
X4/X11/T		DG403		unknown			OT switc	h
X4/R9	RESISTO		604k	1%	0603	Resisto		
X4/R1	RESISTO		56.2k	1%	0603	Resisto		
X4/R2	RESISTO		200k	1%	0603	Resisto		
X4/C4 X4/R8	CAPACITO RESISTO		10pF 49.9	25WVDC X 1% 1/10W		0603 0603	Resisto	capacitor
X4/R6 X4/C5	CAPACIT		10nF	25WVDC 2		0603		capacitor
X4/C5 X4/R6	RESISTO		49.9	1% 1/10V		0603	Resisto	
X4/C3	CAPACIT		22nF	50WVDC 2		0603		capacitor
X4/U1	DUAL_OP		LM6142A		N/A	SO8		te_conflict
X4/R7	RESISTO		604k	1%	0603	Resisto		
X4/R3	RESISTO		56.2k	1%	0603	Resisto		
X4/R4	RESISTO		200k	1%	0603	Resisto		
X4/C1	CAPACIT		10pF	25WVDC 2	K7R	0603	Ceramic	capacitor
X4/R5	RESISTO	R	49.9	1% 1/10V	V	0603	Resisto	r
X4/C2	CAPACIT	OR	10nF	25WVDC 2	K7R	0603	Ceramic	capacitor
X3/R12	RESISTO		3.74k	1% 1/100		0603	Resisto	
X3/R11	RESISTO		3.74k	1% 1/10V		0603	Resisto	
X3/C7	CAPACIT		0.1uF	10WVDC			capacit	
X3/R10	RESISTO		49.9	1% 1/10V		0603	Resisto	
X3/C6	CAPACIT		0.1uF	10WVDC			capacit	
X3/C32	CAPACITO			50WVDC 2		0603		capacitor
X3/U3	MAX308C			unknown			analog	
X3/C31 X3/U2	CAPACITO AD5328		unknown	50WVDC X		0603	ceramic	capacitor
X3/UZ X3/X1/Z3		ZENER_D		BZV55-B3		unknown	SODSOC	unknown
X3/X1/Z2		ZENER_D		BZV55-B3			SOD80C	unknown
X3/X1/Z2		CAPACIT		22nF	50WVDC	0603		capacitor
X3/X1/C1		CAPACIT		22nF	50WVDC	0603		capacitor
X3/X1/C2		CAPACIT		22nF	50WVDC	0603		capacitor
X3/X1/C		CAPACIT		1uF	25WVDC	1812	Ceramic	capacitor
X3/X1/C	10	CAPACIT	OR	1uF	25WVDC	1812	Ceramic	capacitor
X3/X1/R2		RESISTO:		604k	1% 1/10		0603	Resistor
X3/X1/R3	10	RESISTO:	R	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		2512	Resisto	
X3/X1/C9	CAPACITOR	luF		1812		capacitor
X3/X1/R12	RESISTOR	33.2k	1% 1/10W		0603	Resistor
X3/X1/Q2	LM395T unknown			unknown		
X3/X1/C7	CAPACITOR	47pF		0603	Ceramic	capacitor
X3/X1/R16	RESISTOR	4.99k	1% 1/10W		0603	Resistor
X3/X1/Q3	PNP_TRANSISTOR	MMBT290		unknown	SOT23	unknown
X3/X1/R8	RESISTOR	10		2512	Resistor	r
X3/X1/C8	CAPACITOR	1uF	25WVDC	1812	Ceramic	capacitor
X3/X1/R2	RESISTOR	301k	1% 1/10W	Ī	0603	Resistor
X3/X1/C6	CAPACITOR	330pF		0603	Ceramic	capacitor
X3/X1/R6	RESISTOR	10k	1% 1/10W	Ī	0603	Resistor
X3/X1/Q1	LM395T unknown			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		0603		capacitor
X3/X1/C4	CAPACITOR	22nF		0603		capacitor
X3/X1/C3	CAPACITOR	22nF		0603		capacitor
X3/X1/R15	RESISTOR	10k	1% 1/10W		0603	Resistor
X3/X1/R5	RESISTOR	10k	1% 1/10W		0603	Resistor
X3/X1/R11	RESISTOR	60.4k	1% 1/10W		0603	Resistor
X3/X1/R13	RESISTOR	75k	1% 1/10W		0603	Resistor
X3/X1/R14	RESISTOR	301k	1% 1/10W		0603	Resistor
X3/X1/U2	DUAL_OPAMP	LM6142A	LM	N/A	S08	attribute_confli
ct	DEGE GEOD	E 4 01	10 1/10		0.602	-
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	ΓIΜ	N/A	S08	attribute_confli
ct X3/X2/C3	CAPACITOR	22nF	50WVDC	0603	Coxomia	capacitor
X3/X2/C3 X3/X2/C2	CAPACITOR	2211F 22nF		0603		capacitor
X3/X2/C1	CAPACITOR	22nF		0603		capacitor
X3/X2/C1 X3/X2/C7	CAPACITOR	1uF		1812		capacitor
X3/X2/C4	CAPACITOR	1uF		1812		capacitor
X3/X2/C6	CAPACITOR	1uF		1812		capacitor
X3/X2/C5	CAPACITOR	1uF		1812		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	RESISTOR	3.74k	1% 1/10W		0603	Resistor
X3/X2/X2/Q1	PMOS-SO8		unknown			el MOS transistor
(enhancement t						
X3/X2/X2/R6	RESISTOR	3.74k	1% 1/10W	Ī	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		unknown		unknown
X3/X2/X2/Q3	PNP_TRANSISTOR	MMBT290		unknown		unknown
X3/X2/X2/R2	RESISTOR	1		2512	Resistor	
X3/X2/X2/R1	RESISTOR	1		2512	Resistor	
X3/X2/X2/Q2	NMOS_TRANSISTOR		Ú	unknown	TO252AA	generic N channe
	r (enhancement ty		1	300	D 1	1 1100
X3/X2/X1/Q1	PMOS-SO8	TRF9333	unknown	S08	P channe	el MOS transistor
(enhancement t		2 7/1-	10. 1 /10	•	0603	Dogiator
X3/X2/X1/R6 X3/X2/X1/R5	RESISTOR	3.74k 3.74k	1% 1/10W 1% 1/10W		0603 0603	Resistor Resistor
Tues de la lace	RESISTOR	J. / 4K	то т/тОМ	1	0003	Resistor 00/F0

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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
1 MOS transisto	r (enhancement ty	ype)				
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				OT 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	1uF	25WVDC			capacitor
x3/x3/c4	CAPACITOR	1uF	25WVDC			capacitor
X3/X3/C6	CAPACITOR	1uF	25WVDC			capacitor
X3/X3/C5	CAPACITOR	luF		1812		capacitor
X3/X3/R2	RESISTOR	3.74k	1% 1/10		0603	Resistor
X3/X3/R1	RESISTOR	3.74k	1% 1/10		0603	Resistor
X3/X3/R7	RESISTOR	3.74k	1% 1/10		0603	Resistor
X3/X3/R6	RESISTOR	3.74k	1% 1/10		0603	
X3/X3/X2/Q1	PMOS-SO8	IRF9333	unknown	S08	P channe	el MOS transistor
(enhancement t		2 541	10 1/10		0.602	.
X3/X3/X2/R6		3.74k	1% 1/10		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		unknown
X3/X3/X2/Q3	PNP_TRANSISTOR	MMBT290		unknown 2512	Resisto:	unknown
X3/X3/X2/R2 X3/X3/X2/R1	RESISTOR RESISTOR	1	1% 1W 1% 1W	2512	Resisto:	
X3/X3/X2/R1 X3/X3/X2/Q2	NMOS_TRANSISTOR					generic N channe
	r (enhancement ty	me)	O	dilkilowii	10232AA	generic n channe
X3/X3/X1/Q1	PMOS-SO8		unknown	S08	P channe	el MOS transistor
(enhancement t		IRI 2333	ammown	500	i Ciidiiii	er hob cranbibeor
X3/X3/X1/R6	RESISTOR	3.74k	1% 1/10	W	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	1% 1/10		0603	Resistor
X3/X3/X1/R7	RESISTOR	200	1% 1/10		0603	Resistor
X3/X3/X1/Q4	NPN_TRANSISTOR	MMBT222		unknown		unknown
X3/X3/X1/Q3	PNP_TRANSISTOR	MMBT290		unknown		unknown
X3/X3/X1/R2	RESISTOR	1	1% 1W	2512	Resisto	
X3/X3/X1/R1	RESISTOR	1	1% 1W	2512	Resisto	
X3/X3/X1/Q2	NMOS_TRANSISTOR					generic N channe
	r (enhancement ty					
X3/X3/R3	RESISTOR	100	1% 1/10		0603	Resistor
X3/X3/R4	RESISTOR	100	1% 1/10	W	0603	Resistor
X3/X3/R5	RESISTOR	100	1% 1/10		0603	Resistor
X3/X3/U1	DG403 unknown	unknown			OT switc	n
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	Ceramic	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% 1/10V		0603	Resistor
X3/X4/R1	RESISTOR	3.74k	1% 1/10V		0603	Resistor
X3/X4/R7	RESISTOR	3.74k 3.74k	1% 1/10V 1% 1/10V		0603 0603	Resistor Resistor
X3/X4/R6 X3/X4/X2/Q1	RESISTOR PMOS-SO8		unknown			el MOS transistor
(enhancement t		IKF9333	ulikilowii	500	P Chaine	er MOS transistor
x3/x4/x2/R6	RESISTOR	3.74k	1% 1/10W	J	0603	Resistor
X3/X4/X2/R5	RESISTOR	3.74k	1% 1/10V		0603	Resistor
X3/X4/X2/R4	RESISTOR	3.74k	1% 1/10V		0603	Resistor
X3/X4/X2/R3	RESISTOR	3.74k	1% 1/10W		0603	Resistor
X3/X4/X2/R7	RESISTOR	200	1% 1/10W		0603	Resistor
x3/x4/x2/Q4	NPN_TRANSISTOR	MMBT222		unknown		unknown
X3/X4/X2/Q3	PNP_TRANSISTOR	MMBT290		unknown		unknown
X3/X4/X2/R2	RESISTOR	1	1% 1W	2512	Resistor	r
X3/X4/X2/R1	RESISTOR	1	1% 1W	2512	Resistor	r
X3/X4/X2/Q2	NMOS_TRANSISTOR		O	unknown	TO252AA	generic N channe
	r (enhancement ty	ype)				
X3/X4/X1/Q1	PMOS-SO8	IRF9333	unknown	S08	P channe	el MOS transistor
(enhancement t						
X3/X4/X1/R6	RESISTOR	3.74k	1% 1/10W		0603	Resistor
X3/X4/X1/R5	RESISTOR	3.74k	1% 1/10W		0603	Resistor
X3/X4/X1/R4	RESISTOR	3.74k	1% 1/10W		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 r (enhancement tr		J	unknown	10252AA	generic N channe
X3/X4/R3	RESISTOR	100	1% 1/10W	л	0603	Resistor
X3/X4/R3 X3/X4/R4	RESISTOR	100	1% 1/10V		0603	Resistor
X3/X4/R4 X3/X4/R5	RESISTOR	100	1% 1/10V		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% 1/100		0603	Resistor
X3/X10/C8	CAPACITOR	1uF		1812	Ceramic	capacitor
X3/X10/R18	RESISTOR	10k	1% 1/10W	₹	0603	Resistor
X3/X10/Q6	NPN_TRANSISTOR	MMBT2222		unknown		unknown
X3/X10/R19	RESISTOR	12.7	1% 1/10W		0603	Resistor
X3/X10/Q5	NPN_TRANSISTOR	MMBT2222		unknown		unknown
X3/X10/R16	RESISTOR	20k	1% 1/10V		0603	Resistor
X3/X10/R17	RESISTOR	499	1% 1/10W		0603	Resistor
X3/X10/Q4	PNP_TRANSISTOR	MMBT290		unknown		unknown
X3/X10/C7	CAPACITOR	0.1uF	10WVDC	0603		capacitor
X3/X10/R13	RESISTOR	1k	1% 1/10V		0603	Resistor
X3/X10/R14	RESISTOR	32.4k	1% 1/10W		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 4 7mE	1% 1/10V		0603	Resistor
X3/X10/C1	CAPACITOR	4.7pF		0603		capacitor
X3/X10/Q1	NPN_TRANSISTOR	MMBT2222 499	ZA 1% 1/10%	unknown		unknown
X3/X10/R7	RESISTOR	477	TO T/TOM	V	0603	Resistor

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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			,		
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	Ceramic	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	Ceramic	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			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 r	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
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 75	1% 1/10W	0603	Resistor
X3/X8/R7	RESISTOR	75 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 X3/X8/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X3/X8/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r	CAPACITOR	0.1ur	TOWVDC X/K	0003	ceramic capacito
X3/X8/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X3/X8/C1	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
r v2/v0/ii1	DC4021	11n len	CO16 D1 CD	OΠ ~	h
X3/X8/U1		unknown 75			n Resistor
X3/X7/R9	RESISTOR	75 75	1% 1/10W 1% 1/10W	0603 0603	Resistor
X3/X7/R8 X3/X7/R7	RESISTOR RESISTOR	75 75	1% 1/10W 1% 1/10W	0603	Resistor
X3/X7/R6	RESISTOR RESISTOR	75 75	1% 1/10W 1% 1/10W	0603	Resistor
X3/X7/R6 X3/X7/R3	RESISTOR	100	1% 1/10W 1% 1/10W	0603	Resistor
X3/X7/C3	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
r	CAFACTION	o.rur	ZJWVDC A/R	0003	cciamic capacito
x3/x7/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X3/X7/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
X3/X7/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X3/X7/K3 X3/X7/C1	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
r	0111 1101 1 010	0 . I ar	2011/20 21/10	5555	ceramic capacito
x3/x7/U1	DG403 unknown	unknown	SO16 Dual SPI	OT switc	h
X3/X6/R9	RESISTOR	75	1% 1/10W	0603	Resistor
40/50			· 		

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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
r X3/X6/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X3/X6/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r	CAPACITOR	U.Iur	IOWVDC X/K	0003	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	OT 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	luF	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/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	Ceramic	capacitor
X3/X5/Q1	NPN_TRANSISTOR	MMBT222	2A unknown	SOT23	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	Ceramic	capacitor
X3/X5/U1	DUAL_OPAMP	LM6142A	IM N/A	S08	attribute_confli
ct		1.01	10 1 /10	0.500	
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 12 7	25WVDC 1812	0603	capacitor Resistor
X3/X5/R9	RESISTOR	12.7 MMBT290	1% 1/10W 7A unknown		
X3/X5/Q3 X3/X5/Q2	PNP_TRANSISTOR PNP_TRANSISTOR	MMBT290			unknown unknown
X3/X5/Q2 X3/X11/R9	RESISTOR	MMB1290	1% 1/10W	0603	Resistor
X3/X11/R9 X3/X11/R8	RESISTOR	75 75	1% 1/10W 1% 1/10W	0603	Resistor
X3/X11/R8 X3/X11/R7	RESISTOR RESISTOR	75 75	1% 1/10W 1% 1/10W	0603	Resistor
X3/X11/R7 X3/X11/R6	RESISTOR RESISTOR	75 75	1% 1/10W 1% 1/10W	0603	Resistor
X3/X11/R0 X3/X11/R3	RESISTOR	100	1% 1/10W 1% 1/10W	0603	Resistor
X3/X11/K3 X3/X11/C3	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
r	CALACTION	o. rar	ZJWVDC A/K	0003	ccramic capacito
-					

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X3/X11/R4	RESISTOR	100	1% 1/10	W	0603	Resistor
X3/X11/C2	CAPACITOR	0.1uF	16WVDC		0603	Ceramic capacito
r	CHILICITOR	0.141	IOWVDC	21 / 10	0005	ceramic capacito
X3/X11/R5	RESISTOR	100	1% 1/10	M	0603	Resistor
X3/X11/C1	CAPACITOR	0.1uF	25WVDC		0603	Ceramic capacito
r	CHILICITOR	0.141	2311120	21 / 10	0005	ceramic capacito
x3/x11/U1	DG403 unknown	unknown	SO16	Dual SPI	OT switch	h
X3/R9 RESISTOR		1%	0603	Resisto		
X3/R1 RESISTOR		1%	0603	Resisto		
X3/R2 RESISTOR		1%	0603	Resisto		
X3/C4 CAPACITO		25WVDC		0603		capacitor
X3/R8 RESISTOR		1% 1/10		0603	Resisto	
X3/C5 CAPACITO		25WVDC		0603		capacitor
X3/R6 RESISTOR		1% 1/10		0603	Resisto	
X3/C3 CAPACITO		50WVDC	X7R	0603	Ceramic	capacitor
X3/U1 DUAL_OPA	AMP LM6142A	IM	N/A	S08	attribut	te_conflict
X3/R7 RESISTOR	R 604k	1%	0603	Resisto		
X3/R3 RESISTOR		1%	0603	Resisto		
X3/R4 RESISTOR		1%	0603	Resisto		
X3/C1 CAPACITO	-	25WVDC		0603		capacitor
X3/R5 RESISTOR		1% 1/10		0603	Resisto	
X3/C2 CAPACITO		25WVDC		0603		capacitor
X2/R12 RESISTOR		1% 1/10		0603	Resisto	
X2/R11 RESISTOR		1% 1/10		0603	Resisto	
X2/C7 CAPACITO		10WVDC	0603		capacito	
X2/R10 RESISTOR		1% 1/10		0603	Resisto	
X2/C6 CAPACITO		10WVDC	0603		capacito	
X2/C32 CAPACITO		50WVDC		0603		capacitor
X2/U3 MAX308CS		unknown				
X2/C31 CAPACITO		50WVDC		0603	Ceramic	capacitor
X2/U2 AD5328	unknown unknown ZENER DIODE				SOD80C	unknown
X2/X1/Z1	ZENER_DIODE ZENER_DIODE	BZV55-B			SOD80C SOD80C	
X2/X1/Z2 X2/X1/C11	CAPACITOR	52 v 55 – Б. 22nF	50WVDC	0603		capacitor
X2/X1/C11 X2/X1/C12	CAPACITOR	2211F 22nF	50WVDC	0603		capacitor
X2/X1/C2 X2/X1/C2	CAPACITOR	22nF	50WVDC	0603		capacitor
X2/X1/C13	CAPACITOR	1uF	25WVDC	1812		capacitor
X2/X1/C10	CAPACITOR	1uF	25WVDC	1812		capacitor
X2/X1/R20	RESISTOR	604k	1% 1/10		0603	Resistor
X2/X1/R10	RESISTOR	604k	1% 1/10		0603	Resistor
X2/X1/C1	CAPACITOR	22nF	50WVDC	0603		capacitor
X2/X1/R18	RESISTOR	10	1% 1W	2512	Resisto	
X2/X1/C9	CAPACITOR	1uF	25WVDC	1812		capacitor
X2/X1/R12	RESISTOR	33.2k	1% 1/10		0603	Resistor
X2/X1/Q2	LM395T unknown	unknown	TO220	unknown		
X2/X1/C7	CAPACITOR	47pF	50WVDC	0603	Ceramic	capacitor
X2/X1/R16	RESISTOR	4.99k	1% 1/10		0603	Resistor
X2/X1/Q3	PNP_TRANSISTOR	MMBT290		unknown		unknown
X2/X1/R8	RESISTOR	10	1% 1W	2512	Resisto	
X2/X1/C8	CAPACITOR	1uF	25WVDC	1812		capacitor
X2/X1/R2	RESISTOR	301k	1% 1/10		0603	Resistor
X2/X1/C6	CAPACITOR	330pF		0603		capacitor
X2/X1/R6	RESISTOR	10k	1% 1/10		0603	Resistor
X2/X1/Q1	LM395T unknown			unknown	0.500	
X2/X1/R17	RESISTOR	10k	1% 1/10		0603	Resistor
X2/X1/R7	RESISTOR	10k	1% 1/10		0603	Resistor
X2/X1/C5	CAPACITOR	330pF	50WVDC	0603		capacitor
X2/X1/C4	CAPACITOR	22nF	50WVDC	0603		capacitor
X2/X1/C3	CAPACITOR	22nF	50WVDC	0603	<u>ceramic</u>	capacitor

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X2/X1/R15	RESISTOR	10k	1% 1/10	W	0603	Resistor
X2/X1/R5	RESISTOR	10k	1% 1/10		0603	Resistor
X2/X1/R11	RESISTOR	60.4k	1% 1/10	W	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		0603	Resistor
X2/X1/R4	RESISTOR	301k	1% 1/10		0603	Resistor
X2/X1/U1	DUAL_OPAMP	LM6142A	IM	N/A	S08	attribute_confli
ct						
X2/X2/C3	CAPACITOR	22nF	50WVDC	0603		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		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	IRF9333	unknown	S08	P channe	el MOS transistor
(enhancement						
X2/X2/X2/R6	RESISTOR	3.74k	1% 1/10		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		0	unknown	TO252AA	generic N channe
	or (enhancement t				_ ,	
X2/X2/X1/Q1	PMOS-SO8	IRF9333	unknown	SO8	P channe	el MOS transistor
(enhancement		0 541			0.500	
X2/X2/X1/R6	RESISTOR	3.74k	1% 1/10		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/Q4	NPN_TRANSISTOR	MMBT222		unknown		unknown
X2/X2/X1/Q3	PNP_TRANSISTOR	MMBT290		unknown		unknown
X2/X2/X1/R2	RESISTOR	1	1% 1W	2512	Resistor	
X2/X2/X1/R1	RESISTOR	1	1% 1W	2512	Resistor	
X2/X2/X1/Q2	NMOS_TRANSISTOR		U	unknown	TU252AA	generic N channe
	or (enhancement t		10 1/10	TAT.	0602	Dogiator
X2/X2/R3	RESISTOR	100	1% 1/10		0603	Resistor
X2/X2/R4	RESISTOR	100	1% 1/10		0603	Resistor
X2/X2/R5	RESISTOR	100	1% 1/10		0603	Resistor
X2/X2/U1		unknown			OT switch	
X2/X3/C3	CAPACITOR	22nF	50WVDC	0603		capacitor
X2/X3/C2	CAPACITOR	22nF	50WVDC	0603		capacitor
X2/X3/C1	CAPACITOR	22nF	50WVDC	0603		capacitor
X2/X3/C7	CAPACITOR	1uF	25WVDC	1812		capacitor
X2/X3/C4	CAPACITOR	1uF	25WVDC	1812 1812		capacitor
X2/X3/C6	CAPACITOR	1uF	25WVDC	TOT7	Ceramit	capacitor

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X2/X3/C5	CAPACITOR	1uF	25WVDC	1812	Ceramic	capacitor
X2/X3/R2	RESISTOR	3.74k	1% 1/100	V	0603	Resistor
X2/X3/R1	RESISTOR	3.74k	1% 1/100	V	0603	Resistor
X2/X3/R7	RESISTOR	3.74k	1% 1/100	V	0603	Resistor
X2/X3/R6	RESISTOR	3.74k	1% 1/100	V	0603	Resistor
X2/X3/X2/Q1	PMOS-SO8	IRF9333	unknown	S08	P channe	el MOS transistor
(enhancement t	type)					
X2/X3/X2/R6	RESISTOR	3.74k	1% 1/10V		0603	Resistor
X2/X3/X2/R5	RESISTOR	3.74k	1% 1/100	V	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% 1/100		0603	Resistor
X2/X3/X2/Q4	NPN_TRANSISTOR			unknown		unknown
X2/X3/X2/Q3		MMBT290		unknown		unknown
X2/X3/X2/R2	RESISTOR	1		2512	Resisto	
X2/X3/X2/R1	RESISTOR	1	1% 1W		Resisto	
X2/X3/X2/Q2	NMOS_TRANSISTOR)	unknown	TO252AA	generic N channe
	or (enhancement ty			~ ~ 0	_ ,	
X2/X3/X1/Q1	PMOS-SO8	TRF9333	unknown	SO8	P channe	el MOS transistor
(enhancement t		2 741-	10 1/10	.7	0602	D
X2/X3/X1/R6	RESISTOR	3.74k	1% 1/10V		0603	Resistor
X2/X3/X1/R5	RESISTOR	3.74k	1% 1/10V		0603	Resistor
X2/X3/X1/R4	RESISTOR	3.74k	1% 1/10V		0603	Resistor
X2/X3/X1/R3	RESISTOR	3.74k	1% 1/10V		0603	Resistor
X2/X3/X1/R7	RESISTOR NPN_TRANSISTOR	200	1% 1/10V	v unknown	0603	Resistor
X2/X3/X1/Q4		MMBT290		unknown		unknown unknown
X2/X3/X1/Q3		1 1	7A 1% 1W	2512	Resisto	
X2/X3/X1/R2 X2/X3/X1/R1	RESISTOR RESISTOR	1	1% 1W 1% 1W	2512 2512	Resisto	
X2/X3/X1/R1 X2/X3/X1/Q2	NMOS_TRANSISTOR					generic N channe
	or (enhancement ty		,	alikilowii	10232AA	generic n channe
X2/X3/R3	RESISTOR	100	1% 1/10V	N	0603	Resistor
X2/X3/R4	RESISTOR	100	1% 1/10V		0603	Resistor
X2/X3/R5	RESISTOR	100	1% 1/10V		0603	Resistor
X2/X3/U1		unknown			OT switch	
X2/X4/C3	CAPACITOR	22nF	50WVDC	0603		capacitor
X2/X4/C2		22nF			Ceramic	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	Ceramic	capacitor
X2/X4/C5	CAPACITOR	1uF	25WVDC	1812	Ceramic	capacitor
X2/X4/R2	RESISTOR	3.74k	1% 1/10		0603	Resistor
X2/X4/R1	RESISTOR	3.74k	1% 1/100		0603	Resistor
X2/X4/R7	RESISTOR	3.74k	1% 1/10V		0603	Resistor
X2/X4/R6	RESISTOR	3.74k	1% 1/10V		0603	Resistor
X2/X4/X2/Q1	PMOS-SO8	IRF9333	unknown	S08	P channe	el MOS transistor
(enhancement t						_
X2/X4/X2/R6	RESISTOR	3.74k	1% 1/10V		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% 1/10V		0603	Resistor
X2/X4/X2/Q4	NPN_TRANSISTOR	MMBT2222		unknown		unknown
X2/X4/X2/Q3	PNP_TRANSISTOR	MMBT290		unknown		unknown
X2/X4/X2/R2	RESISTOR	1	1% 1W	2512	Resistor	
X2/X4/X2/R1	RESISTOR	1	1% 1W	2512	Resistor	
X2/X4/X2/Q2	NMOS_TRANSISTOR		J	unknown	TO252AA	generic N channe
I MOS transisto	or (enhancement ty	(be)				

lum 00, 45,0,00		lnto-f-	oo hom tyt		Davis 40/00
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X2/X4/X1/Q1	PMOS-SO8	IRF9333	unknown SO8	P channel MO	S transistor
(enhancement		2 541	10 1 /10**	0602 5 '	
X2/X4/X1/R6	RESISTOR	3.74k	1% 1/10W	0603 Resi	
X2/X4/X1/R5	RESISTOR	3.74k	1% 1/10W	0603 Resi	
X2/X4/X1/R4	RESISTOR	3.74k	1% 1/10W	0603 Resi	
X2/X4/X1/R3	RESISTOR	3.74k	1% 1/10W	0603 Resi	
X2/X4/X1/R7	RESISTOR	200	1% 1/10W	0603 Resi	
X2/X4/X1/Q4	NPN_TRANSISTOR				
X2/X4/X1/Q3	PNP_TRANSISTOR	MMBT290			own
X2/X4/X1/R2	RESISTOR	1 1	1% 1W 2512 1% 1W 2512	Resistor	
X2/X4/X1/R1	RESISTOR			Resistor	aia Nahanna
X2/X4/X1/Q2	NMOS_TRANSISTOR or (enhancement to		0 unknown	TO252AA gene	ric n channe
	RESISTOR	100	1% 1/10W	0603 Resi	ator
X2/X4/R3 X2/X4/R4	RESISTOR	100	1% 1/10W 1% 1/10W	0603 Resi	
X2/X4/R4 X2/X4/R5	RESISTOR	100	1% 1/10W 1% 1/10W	0603 Resi	
X2/X4/R5 X2/X4/U1		unknown		DT switch	PCOT
X2/X4/01 X2/X10/R22	RESISTOR	604k	1% 1/10W	0603 Resi	stor
X2/X10/R22 X2/X10/R21	RESISTOR	604k	1% 1/10W 1% 1/10W	0603 Resi	
X2/X10/R21 X2/X10/C10	CAPACITOR	luF	25WVDC 1812	Ceramic capa	
X2/X10/C10 X2/X10/C9	CAPACITOR	luF	25WVDC 1812	Ceramic capa	
X2/X10/C4	CAPACITOR	0.1uF	10WVDC 0603	Ceramic capa	
X2/X10/R20	RESISTOR	10	1% 1/10W	0603 Resi	
X2/X10/C8	CAPACITOR	luF	25WVDC 1812	Ceramic capa	
X2/X10/R18	RESISTOR	10k	1% 1/10W	0603 Resi	
X2/X10/Q6	NPN_TRANSISTOR	MMBT222		SOT23 unkn	
X2/X10/R19	RESISTOR	12.7	1% 1/10W	0603 Resi	
X2/X10/Q5	NPN_TRANSISTOR	MMBT222		SOT23 unkn	
X2/X10/R16	RESISTOR	20k	1% 1/10W	0603 Resi	
X2/X10/R17	RESISTOR	499	1% 1/10W	0603 Resi	
X2/X10/Q4	PNP_TRANSISTOR	MMBT290	7A unknown	SOT23 unkn	own
X2/X10/C7	CAPACITOR	0.1uF	10WVDC 0603	Ceramic capa	citor
X2/X10/R13	RESISTOR	1k	1% 1/10W	0603 Resi	stor
X2/X10/R14	RESISTOR	32.4k	1% 1/10W	0603 Resi	stor
X2/X10/C6	CAPACITOR	4.7pF	10WVDC 0603	Ceramic capa	citor
X2/X10/R15	RESISTOR	301k	1% 1/10W	0603 Resi	
X2/X10/R11	RESISTOR	10	1% 1/10W	0603 Resi	stor
X2/X10/C1	CAPACITOR	4.7pF	10WVDC 0603	Ceramic capa	
X2/X10/Q1	NPN_TRANSISTOR	MMBT222			
X2/X10/R7	RESISTOR	499	1% 1/10W	0603 Resi	
X2/X10/R10	RESISTOR	49.9	1% 1/10W	0603 Resi	
X2/X10/C5	CAPACITOR	0.1uF	10WVDC 0603	Ceramic capa	
X2/X10/U1	DUAL_OPAMP	LM6142A	IM N/A	SO8 attr	ibute_confli
ct		1 01-	1 0. 1 /1 O T.T	0602	a+ o
X2/X10/R8	RESISTOR	10k	1% 1/10W	0603 Resi	
X2/X10/R2	RESISTOR	26.7k	1% 1/10W	0603 Resi	
X2/X10/R1	RESISTOR	34.0k	1% 1/10W	0603 Resi	
X2/X10/C2	CAPACITOR	0.1uF 1k	10WVDC 0603	Ceramic capa	
X2/X10/R3 X2/X10/R4	RESISTOR RESISTOR	1K 32.4k	1% 1/10W 1% 1/10W	0603 Resi 0603 Resi	
X2/X10/R4 X2/X10/R5	RESISTOR RESISTOR	32.4K 301k	1% 1/10W 1% 1/10W	0603 Resi	
X2/X10/R5 X2/X10/R6	RESISTOR RESISTOR	301k 20k	1% 1/10W 1% 1/10W	0603 Resi	
X2/X10/R6 X2/X10/C3	CAPACITOR	20K 1uF	25WVDC 1812	Ceramic capa	
X2/X10/C3 X2/X10/R9	RESISTOR	1ur 12.7	1% 1/10W	0603 Resi	
X2/X10/R9 X2/X10/Q3	PNP_TRANSISTOR	MMBT290			
X2/X10/Q3 X2/X10/Q2	PNP_TRANSISTOR PNP_TRANSISTOR	MMBT290			
X2/X10/Q2 X2/X9/R9	RESISTOR	имы 290 75	1% 1/10W	0603 Resi	
X2/X9/R9 X2/X9/R8	RESISTOR	75 75	1% 1/10W 1% 1/10W	0603 Resi	
X2/X9/R7	RESISTOR	75 75	1% 1/10W	0603 Resi	
112/11/11	111010101	, 5	10 1/10W	JJJJ KCSI	

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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.lur	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					
X2/X9/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X9/C1	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
r					
X2/X9/U1		unknown		SPDT switch	
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	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					
X2/X8/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X8/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r vo/vo/pe	DECTOROD	100	1% 1/10W	0602	Dogiston
X2/X8/R5	RESISTOR	100	25WVDC X7R	0603	Resistor
X2/X8/C1 r	CAPACITOR	0.1uF	25WVDC X/R	0603	Ceramic capacito
x2/x8/U1	DG403 unknown	unknown	SO16 Dual	SPDT switch	2
X2/X7/R9	RESISTOR	75	1% 1/10W	0603	Resistor
X2/X7/R9 X2/X7/R8	RESISTOR	75 75	1% 1/10W	0603	Resistor
X2/X7/R0 X2/X7/R7	RESISTOR	75 75	1% 1/10W	0603	Resistor
X2/X7/R6	RESISTOR	75 75	1% 1/10W 1% 1/10W	0603	Resistor
X2/X7/R0 X2/X7/R3	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X7/K3 X2/X7/C3	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
r	CAPACITOR	o.iur	ZJWVDC X/K	0003	ceramic capacito
x2/x7/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X7/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r	01111011011	0.1.0.1	2011/20 11/11		
X2/X7/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X7/C1	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
r					
X2/X7/U1		unknown		SPDT switch	
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	J.11.10.1.10.1.	J. 1 a.	_0,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	5005	JJIAIC CAPACICO
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
40/50					

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•	CA DA CITTOD			~	
X2/X5/C8 X2/X5/R18	CAPACITOR RESISTOR	1uF 25WVDC 10k 1% 1/1		Ceramic 0603	capacitor Resistor
X2/X5/R16 X2/X5/Q6	NPN_TRANSISTOR		unknown S		unknown
X2/X5/Q0 X2/X5/R19	RESISTOR	12.7 1% 1/1		0603	Resistor
X2/X5/Q5	NPN_TRANSISTOR		unknown S		unknown
X2/X5/Q5 X2/X5/R16	RESISTOR	20k 1% 1/1		0603	Resistor
X2/X5/R17	RESISTOR	499 1% 1/1		0603	Resistor
X2/X5/Q4	PNP_TRANSISTOR		unknown S		unknown
X2/X5/C7	CAPACITOR	0.1uF 10WVDC			capacitor
X2/X5/R13	RESISTOR	1k 1% 1/1		0603	Resistor
X2/X5/R14	RESISTOR	32.4k 1% 1/1		0603	Resistor
X2/X5/C6	CAPACITOR			Ceramic	capacitor
X2/X5/R15	RESISTOR	301k 1% 1/1	.OW	0603	Resistor
X2/X5/R11	RESISTOR	10 1% 1/1		0603	Resistor
X2/X5/C1	CAPACITOR	4.7pF 10WVDC			capacitor
X2/X5/Q1	NPN_TRANSISTOR		unknown S		unknown
X2/X5/R7	RESISTOR	499 1% 1/1		0603	Resistor
X2/X5/R10	RESISTOR	49.9 1% 1/1		0603	Resistor
X2/X5/C5	CAPACITOR	0.1uF 10WVDC			capacitor
X2/X5/U1	DUAL_OPAMP	LM6142AIM	N/A	S08	attribute_confli
X2/X5/R8	RESISTOR	10k 1% 1/1	.OW	0603	Resistor
X2/X5/R2	RESISTOR	26.7k 1% 1/1		0603	Resistor
X2/X5/R1	RESISTOR	34.0k 1% 1/1		0603	Resistor
X2/X5/C2	CAPACITOR	0.1uF 10WVDC			capacitor
X2/X5/R3	RESISTOR	1k 1% 1/1		0603	Resistor
X2/X5/R4	RESISTOR	32.4k 1% 1/1		0603	Resistor
X2/X5/R5	RESISTOR	301k 1% 1/1		0603	Resistor
X2/X5/R6	RESISTOR	20k 1% 1/1		0603	Resistor
X2/X5/C3	CAPACITOR	1uF 25WVDC			capacitor
X2/X5/R9	RESISTOR	12.7 1% 1/1		0603	Resistor
X2/X5/Q3	PNP_TRANSISTOR		unknown S unknown S		unknown unknown
X2/X5/Q2 X2/X11/R9	PNP_TRANSISTOR	R MMBT2907A 75 1% 1/1		0603	Resistor
X2/X11/R9 X2/X11/R8	RESISTOR RESISTOR	75 1% 1/1		0603	Resistor
X2/X11/R0 X2/X11/R7	RESISTOR	75 1% 1/1		0603	Resistor
X2/X11/R6	RESISTOR	75 1% 1/1		0603	Resistor
X2/X11/R3	RESISTOR	100 1% 1/1		0603	Resistor
x2/x11/c3	CAPACITOR	0.1uF 25WVDC		0603	Ceramic capacito
r					_
X2/X11/R4	RESISTOR	100 1% 1/1		0603	Resistor
X2/X11/C2 r	CAPACITOR	0.1uF 16WVDC	! X7R (0603	Ceramic capacito
X2/X11/R5	RESISTOR	100 1% 1/1		0603	Resistor
X2/X11/C1	CAPACITOR	0.1uF 25WVDC	! X7R (0603	Ceramic capacito
r X2/X11/U1	DG403 unknov	n unknown S016	Dual SPD	T switch	า
X2/R9 RESISTO		1% 0603	Resistor		· -
X2/R1 RESISTO		1% 0603	Resistor		
X2/R2 RESISTO		1% 0603	Resistor		
X2/C4 CAPACIT		25WVDC X7R			capacitor
X2/R8 RESISTO	_	1% 1/10W	0603 I	Resisto	r
X2/C5 CAPACIT		25WVDC X7R			capacitor
X2/R6 RESISTO		1% 1/10W		Resisto	
X2/C3 CAPACIT		50WVDC X7R			capacitor
X2/U1 DUAL_OP				attribut	te_conflict
X2/R7 RESISTO		1% 0603	Resistor		
X2/R3 RESISTO		1% 0603	Resistor		
X2/R4 RESISTO	R 200k	1% 0603	Resistor		

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X2/C1 CAPACITO	OR 10pF	25WVDC 2	×7R	0603	Ceramic	capacitor	
X2/R5 RESISTOR	-	1% 1/10V		0603	Resistor		
X2/C2 CAPACITO		25WVDC 2		0603		capacitor	
X1/R12 RESISTOR		1% 1/10V		0603	Resisto	_	
X1/R11 RESISTOR		1% 1/10V		0603	Resistor		
X1/C7 CAPACITO		10WVDC			capacito		
X1/R10 RESISTOR		1% 1/10V		0603	Resistor		
X1/C6 CAPACITO		10WVDC	0603		capacito		
X1/C32 CAPACITO		50WVDC 2		0603		capacitor	
X1/U3 MAX308CS		unknown			analog r		
X1/C31 CAPACITO		50WVDC		0603		capacitor	
X1/U2 AD5328	unknown unknown						
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		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	c	
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	Resisto		
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% 1/101		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 X1/X1/C3	CAPACITOR CAPACITOR	22nF 22nF	50WVDC 50WVDC	0603 0603		capacitor capacitor	
X1/X1/C3 X1/X1/R15	RESISTOR	2211F 10k	1% 1/101		0603	Resistor	
X1/X1/R15 X1/X1/R5	RESISTOR RESISTOR	10k	1% 1/10		0603	Resistor	
X1/X1/R3 X1/X1/R11	RESISTOR	60.4k	1% 1/10		0603	Resistor	
X1/X1/R13	RESISTOR	75k	1% 1/10		0603	Resistor	
X1/X1/R14	RESISTOR	301k	1% 1/10		0603	Resistor	
X1/X1/U2	DUAL OPAMP	LM6142A		N/A	S08	attribute_	confli
ct	<u>-</u>		=	, <u>-</u>			
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						_	
X1/X2/C3	CAPACITOR	22nF	50WVDC	0603		capacitor	
X1/X2/C2	CAPACITOR	22nF	50WVDC	0603	Ceramic	capacitor	
X1/X2/C1	CAPACITOR	22nF	50WVDC	0603	Ceramic	capacitor	
X1/X2/C7	CAPACITOR	1uF	25WVDC	1812	Ceramic	capacitor	
X1/X2/C4	CAPACITOR	1uF	25WVDC	1812		capacitor	
X1/X2/C6	CAPACITOR	1uF	25WVDC	1812		capacitor	
X1/X2/C5	CAPACITOR	1uF	25WVDC	1812	Ceramic	capacitor	
F0/F0							00 0045

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X1/X2/R2		3.74k	1% 1/10		0602	Resistor
X1/X2/R2 X1/X2/R1	RESISTOR RESISTOR	3.74k 3.74k	1% 1/10		0603 0603	Resistor
X1/X2/R1 X1/X2/R7	RESISTOR	3.74k	1% 1/10		0603	Resistor
X1/X2/R7 X1/X2/R6	RESISTOR	3.74k	1% 1/10		0603	Resistor
			unknown			
X1/X2/X2/Q1 (enhancement	PMOS-SO8	IRF9333	unknown	508	P Channe	el MOS transistor
x1/x2/x2/R6		3.74k	1% 1/10	raT	0603	Resistor
	RESISTOR	3.74k	1% 1/10		0603	Resistor
X1/X2/X2/R5 X1/X2/X2/R4	RESISTOR	3.74k	1% 1/10		0603	Resistor
	RESISTOR RESISTOR	3.74k	1% 1/10		0603	Resistor
X1/X2/X2/R3 X1/X2/X2/R7	RESISTOR	3.74K 200	1% 1/10		0603	Resistor
X1/X2/X2/R/ X1/X2/X2/Q4		MMBT222		w unknown		unknown
X1/X2/X2/Q4 X1/X2/X2/Q3	PNP_TRANSISTOR	MMBT290'		unknown		unknown
X1/X2/X2/Q3 X1/X2/X2/R2	RESISTOR	1		2512	Resisto	
X1/X2/X2/R2 X1/X2/X2/R1	RESISTOR	1	1% 1W	2512	Resisto	
X1/X2/X2/R1 X1/X2/X2/Q2	NMOS_TRANSISTOR	_		_		generic N channe
	tor (enhancement ty		J	allallowii	10232AA	generic n channe
X1/X2/X1/Q1	PMOS-SO8		unknown	SO8	D channe	el MOS transistor
(enhancement		IRF	diixiiowii	500	r Chaini	ei Mob clansiscoi
X1/X2/X1/R6	RESISTOR	3.74k	1% 1/10	M	0603	Resistor
X1/X2/X1/R5	RESISTOR	3.74k	1% 1/10		0603	Resistor
X1/X2/X1/R4	RESISTOR	3.74k	1% 1/10		0603	Resistor
X1/X2/X1/R3	RESISTOR	3.74k	1% 1/10		0603	Resistor
X1/X2/X1/R7	RESISTOR	200	1% 1/10		0603	Resistor
X1/X2/X1/Q4		MMBT222		unknown		unknown
X1/X2/X1/Q3	PNP_TRANSISTOR	MMBT290		unknown		unknown
X1/X2/X1/R2	RESISTOR	1		2512	Resisto	
X1/X2/X1/R1	RESISTOR	1	1% 1W	2512	Resisto	
X1/X2/X1/Q2	NMOS_TRANSISTOR					generic N channe
	tor (enhancement ty			0.11.11101		30110110 11 011011110
X1/X2/R3	RESISTOR	100	1% 1/10	M	0603	Resistor
X1/X2/R4	RESISTOR	100	1% 1/10		0603 0603	Resistor
X1/X2/R5	RESISTOR	100	1% 1/10		0603	Resistor
X1/X2/U1	DG403 unknown	unknown	S016	Dual SPI	OT switcl	h
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	1uF	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	CAPACITOR	1uF	25WVDC	1812		capacitor
X1/X3/R2	RESISTOR	3.74k	1% 1/10	W	0603	Resistor
X1/X3/R1	RESISTOR	3.74k	1% 1/10		0603	Resistor
X1/X3/R7	RESISTOR	3.74k	1% 1/10		0603	Resistor
X1/X3/R6	RESISTOR	3.74k	1% 1/10		0603	Resistor
X1/X3/X2/Q1	PMOS-SO8	IRF9333	unknown	S08	P channe	el MOS transistor
(enhancement						
X1/X3/X2/R6	RESISTOR	3.74k	1% 1/10		0603	Resistor
X1/X3/X2/R5	RESISTOR	3.74k	1% 1/10		0603	Resistor
X1/X3/X2/R4	RESISTOR	3.74k	1% 1/10		0603	Resistor
X1/X3/X2/R3	RESISTOR	3.74k	1% 1/10		0603	Resistor
X1/X3/X2/R7	RESISTOR	200	1% 1/10		0603	Resistor
X1/X3/X2/Q4	NPN_TRANSISTOR	MMBT222		unknown		unknown
X1/X3/X2/Q3	PNP_TRANSISTOR	MMBT290		unknown		unknown
X1/X3/X2/R2	RESISTOR	1	1% 1W	2512	Resistor	
X1/X3/X2/R1	RESISTOR	1	1% 1W	2512	Resistor	
X1/X3/X2/Q2	NMOS_TRANSISTOR		J	unknown	TU252AA	generic N channe
	tor (enhancement ty			COS	D ab	ol MOC trace-i-t-
X1/X3/X1/Q1	PMOS-SO8	TKF 9333	unknown	208	r channe	el MOS transistor

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(enhancement	type)					
X1/X3/X1/R6	RESISTOR	3.74k	1% 1/1	OW	0603	Resistor
X1/X3/X1/R5	RESISTOR	3.74k	1% 1/1		0603	Resistor
X1/X3/X1/R4	RESISTOR	3.74k	1% 1/1		0603	Resistor
X1/X3/X1/R3	RESISTOR	3.74k	1% 1/1		0603	Resistor
X1/X3/X1/R7	RESISTOR	200	1% 1/1		0603	Resistor
X1/X3/X1/Q4	NPN_TRANSISTOR	MMBT222		unknown		unknown
X1/X3/X1/Q3	PNP_TRANSISTOR	MMBT290		unknown		unknown
X1/X3/X1/Q3 X1/X3/X1/R2	RESISTOR	1	1% 1W	2512	Resisto	
X1/X3/X1/R2 X1/X3/X1/R1	RESISTOR	1	1% 1W	2512	Resisto	
X1/X3/X1/R1 X1/X3/X1/Q2	NMOS_TRANSISTOR					generic N channe
	tor (enhancement ty		O	UIIKIIOWII	10232AA	generic n channe
X1/X3/R3	RESISTOR	100	1% 1/1	Ом	0603	Resistor
			1% 1/1			Resistor
X1/X3/R4	RESISTOR	100			0603	
X1/X3/R5	RESISTOR	100	1% 1/1		0603	Resistor
X1/X3/U1		unknown			DT switch	
X1/X4/C3	CAPACITOR	22nF	50WVDC			capacitor
X1/X4/C2	CAPACITOR	22nF	50WVDC			capacitor
X1/X4/C1	CAPACITOR	22nF	50WVDC			capacitor
X1/X4/C7	CAPACITOR	1uF	25WVDC			capacitor
X1/X4/C4	CAPACITOR	1uF	25WVDC			capacitor
X1/X4/C6	CAPACITOR	1uF	25WVDC			capacitor
X1/X4/C5	CAPACITOR	1uF	25WVDC			capacitor
X1/X4/R2	RESISTOR	3.74k	1% 1/1		0603	Resistor
X1/X4/R1	RESISTOR	3.74k	1% 1/1		0603	Resistor
X1/X4/R7	RESISTOR	3.74k	1% 1/1		0603	Resistor
X1/X4/R6	RESISTOR	3.74k	1% 1/1		0603	Resistor
X1/X4/X2/Q1	PMOS-SO8	IRF9333	unknow	n S08	P channe	el MOS transistor
(enhancement				_		
X1/X4/X2/R6	RESISTOR	3.74k	1% 1/1		0603	Resistor
X1/X4/X2/R5	RESISTOR	3.74k	1% 1/1		0603	Resistor
X1/X4/X2/R4	RESISTOR	3.74k	1% 1/1		0603	Resistor
X1/X4/X2/R3	RESISTOR	3.74k	1% 1/1		0603	Resistor
X1/X4/X2/R7	RESISTOR	200	1% 1/1		0603	Resistor
X1/X4/X2/Q4	NPN_TRANSISTOR	MMBT222		unknown		unknown
X1/X4/X2/Q3	PNP_TRANSISTOR	MMBT290	7A	unknown		unknown
X1/X4/X2/R2	RESISTOR	1	1% 1W	2512	Resisto	
X1/X4/X2/R1	RESISTOR	1	1% 1W	2512	Resisto	
X1/X4/X2/Q2	NMOS_TRANSISTOR		0	unknown	TO252AA	generic N channe
	tor (enhancement t					
X1/X4/X1/Q1	PMOS-SO8	IRF9333	unknow	n S08	P channe	el MOS transistor
(enhancement						
X1/X4/X1/R6	RESISTOR	3.74k	1% 1/1		0603	Resistor
X1/X4/X1/R5	RESISTOR	3.74k	1% 1/1		0603	Resistor
X1/X4/X1/R4	RESISTOR	3.74k	1% 1/1		0603	Resistor
X1/X4/X1/R3	RESISTOR	3.74k	1% 1/1		0603	Resistor
X1/X4/X1/R7	RESISTOR	200	1% 1/1		0603	Resistor
X1/X4/X1/Q4	NPN_TRANSISTOR	MMBT222	2A	unknown	SOT23	unknown
X1/X4/X1/Q3	PNP_TRANSISTOR	MMBT290	7A	unknown	SOT23	unknown
X1/X4/X1/R2	RESISTOR	1	1% 1W	2512	Resisto	r
X1/X4/X1/R1	RESISTOR	1	1% 1W	2512	Resisto	r
X1/X4/X1/Q2	NMOS_TRANSISTOR	IRFR341	0	unknown	TO252AA	generic N channe
	tor (enhancement ty					
X1/X4/R3	RESISTOR	100	1% 1/1	OW	0603	Resistor
X1/X4/R4	RESISTOR	100	1% 1/1		0603	Resistor
X1/X4/R5	RESISTOR	100	1% 1/1		0603	Resistor
X1/X4/U1		unknown			DT switcl	
X1/X10/R22	RESISTOR	604k	1% 1/1		0603	Resistor
X1/X10/R21	RESISTOR	604k	1% 1/1		0603	Resistor
F0/F0	·- ·- ·- ·- ·- ·- ·- ·- ·- ·- ·- ·- ·- ·		, -			-

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X1/X10/C10	CAPACITOR	1uF	25WVDC 1812		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		capacitor
X1/X10/R18	RESISTOR	10k	1% 1/10W	0603	Resistor
X1/X10/Q6	NPN_TRANSISTOR	MMBT222			unknown
X1/X10/R19	RESISTOR	12.7	1% 1/10W	0603	Resistor
X1/X10/Q5	NPN_TRANSISTOR	MMBT222			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			unknown
X1/X10/C7	CAPACITOR	0.1uF	10WVDC 0603		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		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	luF_	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		100	10 1/10	0.600	
X1/X9/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X9/C1	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
Y	DQ403 1	1	go16 p 3 cp	Sm	
X1/X9/U1			SO16 Dual SPI		
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	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

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X1/X8/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r v1/v0/pc	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X8/R5 X1/X8/C1	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
r	CHILICITOR	0.1u1	ZSWVDC X/IC	0005	ceramic capacito
X1/X8/U1	DG403 unknown	unknown	SO16 Dual SPI	OT switc	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 75	1% 1/10W	0603	Resistor
X1/X7/R6 X1/X7/R3	RESISTOR RESISTOR	75 100	1% 1/10W 1% 1/10W	0603 0603	Resistor Resistor
X1/X7/C3	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
r					00101111110 001 <u>F</u> 010100
X1/X7/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X7/C2 r	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
X1/X7/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X7/C1	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
r X1/X7/U1	DG403 unknown	unknown	SO16 Dual SPI	OT switc	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 X1/X6/C3	RESISTOR	100	1% 1/10W 25WVDC X7R	0603 0603	Resistor
r x1/x6/C3	CAPACITOR	0.1uF	ZOWVDC X/R	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	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacito
r	DG 402	,	go16 p 1 gp	'. '	_
X1/X6/U1 X1/X5/R22	DG403 unknown RESISTOR	unknown 604k	SO16 Dual SPI 1% 1/10W	Ol'switch	n Resistor
X1/X5/R22 X1/X5/R21	RESISTOR	604k	1% 1/10W 1% 1/10W	0603	Resistor
X1/X5/C10	CAPACITOR	luF	25WVDC 1812		capacitor
X1/X5/C9	CAPACITOR	1uF	25WVDC 1812		capacitor
X1/X5/C4	CAPACITOR	0.1uF	10WVDC 0603		capacitor
X1/X5/R20	RESISTOR	10	1% 1/10W	0603	Resistor
X1/X5/C8	CAPACITOR	1uF	25WVDC 1812		capacitor
X1/X5/R18	RESISTOR	10k	1% 1/10W	0603	Resistor
X1/X5/Q6 X1/X5/R19	NPN_TRANSISTOR RESISTOR	MMBT222	2A unknown 1% 1/10W	0603	unknown Resistor
X1/X5/R19 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	7A unknown	SOT23	unknown
X1/X5/C7	CAPACITOR	0.1uF	10WVDC 0603		capacitor
X1/X5/R13	RESISTOR	1k	1% 1/10W	0603	Resistor
X1/X5/R14	RESISTOR	32.4k	1% 1/10W	0603	Resistor
X1/X5/C6 X1/X5/R15	CAPACITOR RESISTOR	4.7pF 301k	10WVDC 0603 1% 1/10W	0603	capacitor Resistor
X1/X5/R15 X1/X5/R11	RESISTOR	10	1% 1/10W 1% 1/10W	0603	Resistor
X1/X5/C1	CAPACITOR	4.7pF	10WVDC 0603		capacitor
X1/X5/Q1	NPN_TRANSISTOR	MMBT222			unknown
X1/X5/R7	RESISTOR	499	1% 1/10W	0603	Resistor
X1/X5/R10	RESISTOR	49.9	1% 1/10W	0603	Resistor
X1/X5/C5	CAPACITOR	0.1uF	10WVDC 0603	Ceramic	capacitor

X1/X5/N=	Jun 23,	15 8:36			Interfa	ce.bom	.txt		Page 24/26
X1/X5/R2 RESISTOR 10k			DUAL_OP	AMP				S08	
X1/X5/R2		R	PFSTST∩	>	10k	1% 1/10	ΤΑΤ	0603	Registor
X1/X5/C2									
XI/X5/C2									
X1/X5/R4 RESISTOR 1k									
X1/X5/R6									
X1/X5/R5									
X1/X5/R6									
X1/X5/03									
X1/X5/Q3									
X1/X5/Q2									
X1/X11/R9									
X1/X11/R8									
X1/X11/R8									
X1/X11/R6									
X1/X11/R6									
X1/X11/R3									
X1/X11/C3									
X1/X11/R4									
X1/X11/C2		J	CHENCTI	J1\	J. TUP	2 2 W V DC	2 <u>2</u> / 1\	0003	ccramic capacito
X1/X11/R5	X1/X11/F	R4	RESISTO	З.	100	1% 1/10	W	0603	Resistor
X1/X11/C1		C2	CAPACITO	OR	0.1uF	16WVDC	X7R	0603	Ceramic capacito
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		R.5	RESISTO	₹.	100	1% 1/10	W	0603	Resistor
X1/X11/U1									
X1/R9			50100	1	,	2016	- 1 -	'. 1	
X1/R1									n
X1/R2									
X1/C4									
X1/R8									
X1/C5									
X1/R6									
X1/C3									
X1/U1									
X1/R7	1								
X1/R3 RESISTOR 56.2k 1% 0603 Resistor X1/R4 RESISTOR 200k 1% 0603 Resistor X1/C1 CAPACITOR 10pF 25WVDC X7R 0603 Ceramic capacitor X1/R5 RESISTOR 49.9 1% 1/10W 0603 Resistor X1/C2 CAPACITOR 10nF 25WVDC X7R 0603 Ceramic capacitor C2 CAPACITOR 220pF 25WVDC X7R 0603 Ceramic capacitor C1 CAPACITOR 220pF 25WVDC X7R 0603 Ceramic capacitor R17 RESISTOR 49.9 1% 1/10W 0603 Resistor R16 RESISTOR 49.9 1% 1/10W 0603 Resistor R900 RESISTOR 300 1% 1/10W 0603 Resistor R31 RESISTOR 10uF 6.3WVDC X5R 0603 Ceramic capacitor U16 OSC 29.4912MHz unknown SMTOSC Surface Mount Oscillator J7 TP8 LPPB042NFSS 8pos, .050" pitch LPPB042NFSS connecto									re_confile
X1/R4									
X1/C1									
X1/R5 RESISTOR 49.9 1% 1/10W 0603 Resistor X1/C2 CAPACITOR 10nF 25WVDC X7R 0603 Ceramic capacitor C2 CAPACITOR 220pF 25WVDC X7R 0603 Ceramic capacitor C1 CAPACITOR 220pF 250WVDC X7R 0603 Ceramic capacitor R17 RESISTOR 499 1% 1/10W 0603 Resistor R16 RESISTOR 1.00k 1% 1/10W 0603 Resistor R900 RESISTOR 300 1% 1/10W 0603 Resistor R31 RESISTOR 18 1% 1/10W 0603 Resistor C45 CAPACITOR 10uF 6.3WVDC X5R 0603 Ceramic capacitor U16 OSC 29.4912MHz unknown SMTOSC Surface Mount Oscillator U7 TP8 LPPB042NFSS 8pos, .050" pitch LPPB042NFSS connector T header J4 TP8 LPPB042NFSS 8pos, .050" pitch LPPB042NFSS connector T header J3 CamLink unknown unknown 10226-5212PL unknown C48 CAPACITOR 0.33uF 10WVDC X5R 0603 Ceramic capacitor C47 CAPACITOR 10nF 50WVDC X7R 0603 Ceramic capacitor									aanaaitar
X1/C2 CAPACITOR 10nF 25WVDC X7R 0603 Ceramic capacitor C2 CAPACITOR 220pF 25WVDC X7R 0603 Ceramic capacitor C1 CAPACITOR 220pF 250WVDC X7R 0603 Ceramic capacitor R17 RESISTOR 499 1% 1/10W 0603 Resistor R16 RESISTOR 1.00k 1% 1/10W 0603 Resistor R900 RESISTOR 300 1% 1/10W 0603 Resistor R31 RESISTOR 18 1% 1/10W 0603 Ceramic capacitor C45 CAPACITOR 10uF 6.3WVDC X5R 0603 Ceramic capacitor U16 OSC 29.4912MHz unknown SMTOSC Surface Mount Oscillator J7 TP8 LPPB042NFSS 8pos, .050" pitch LPPB042NFSS connector r header J4 TP8 LPPB042NFSS 8pos, .050" pitch LPPB042NFSS connector J3 CamLink unknown unknown 10226-5212PL unknown Unknown Ceramic capacitor C47 CAPACITOR 1									
C2 CAPACITOR 220pF 25WVDC X7R 0603 Ceramic capacitor C1 CAPACITOR 220pF 250WVDC X7R 0603 Ceramic capacitor R17 RESISTOR 499 1% 1/10W 0603 Resistor R16 RESISTOR 1.00k 1% 1/10W 0603 Resistor R900 RESISTOR 300 1% 1/10W 0603 Resistor R31 RESISTOR 18 1% 1/10W 0603 Resistor C45 CAPACITOR 10uF 6.3WVDC X5R 0603 Ceramic capacitor U16 OSC 29.4912MHz unknown SMTOSC Surface Mount Oscillator J7 TP8 LPPB042NFSS 8pos, .050" pitch LPPB042NFSS connector r header J4 TP8 LPPB042NFSS 8pos, .050" pitch LPPB042NFSS connector J3 CamLink unknown unknown unknown unknown 10226-5212PL unknown Unknown C48 CAPACITOR 0.33uF 10WVDC X5R 0603									
C1 CAPACITOR 220pF 250WVDC X7R 0603 Ceramic capacitor R17 RESISTOR 499 1% 1/10W 0603 Resistor R16 RESISTOR 1.00k 1% 1/10W 0603 Resistor R900 RESISTOR 300 1% 1/10W 0603 Resistor R31 RESISTOR 18 1% 1/10W 0603 Resistor C45 CAPACITOR 10uF 6.3WVDC X5R 0603 Ceramic capacitor U16 OSC 29.4912MHz unknown SMTOSC Surface Mount Oscillator J7 TP8 LPPB042NFSS 8pos, .050" pitch LPPB042NFSS connector r header J4 TP8 LPPB042NFSS 8pos, .050" pitch LPPB042NFSS connector r header J3 CamLink unknown unknown 10226-5212PL unknown C48 CAPACITOR 0.33uF 10WVDC X5R 0603 Ceramic capacitor C47 CAPACITOR 10nF 50WVDC X7R 0603 Ceramic capacitor									
R17 RESISTOR 499 1% 1/10W 0603 Resistor R16 RESISTOR 1.00k 1% 1/10W 0603 Resistor R900 RESISTOR 300 1% 1/10W 0603 Resistor R31 RESISTOR 18 1% 1/10W 0603 Resistor C45 CAPACITOR 10uF 6.3WVDC X5R 0603 Ceramic capacitor U16 OSC 29.4912MHz unknown SMTOSC Surface Mount Oscillator J7 TP8 LPPB042NFSS 8pos, .050" pitch LPPB042NFSS connector r header J4 TP8 LPPB042NFSS 8pos, .050" pitch LPPB042NFSS connector r header J3 CamLink unknown unknown 10226-5212PL unknown C48 CAPACITOR 0.33uF 10WVDC X5R 0603 Ceramic capacitor C47 CAPACITOR 10nF 50WVDC X7R 0603 Ceramic capacitor									
R16 RESISTOR 1.00k 1% 1/10W 0603 Resistor R900 RESISTOR 300 1% 1/10W 0603 Resistor R31 RESISTOR 18 1% 1/10W 0603 Resistor C45 CAPACITOR 10uF 6.3WVDC X5R 0603 Ceramic capacitor U16 OSC 29.4912MHz unknown SMTOSC Surface Mount Oscillator J7 TP8 LPPB042NFSS 8pos, .050" pitch LPPB042NFSS connector r header J4 TP8 LPPB042NFSS 8pos, .050" pitch LPPB042NFSS connector r header J3 CamLink unknown unknown unknown 10226-5212PL unknown Unknown C48 CAPACITOR 0.33uF 10WVDC X5R 0603 Ceramic capacitor C47 CAPACITOR 10nF 50WVDC X7R 0603 Ceramic capacitor									
R900 RESISTOR 300 1% 1/10W 0603 Resistor R31 RESISTOR 18 1% 1/10W 0603 Resistor C45 CAPACITOR 10uF 6.3WVDC X5R 0603 Ceramic capacitor U16 OSC 29.4912MHz unknown SMTOSC Surface Mount Oscillator J7 TP8 LPPB042NFSS 8pos, .050" pitch LPPB042NFSS connector r header J4 TP8 LPPB042NFSS 8pos, .050" pitch LPPB042NFSS connector r header J3 CamLink unknown unknown 10226-5212PL unknown C48 CAPACITOR 0.33uF 10WVDC X5R 0603 Ceramic capacitor C47 CAPACITOR 10nF 50WVDC X7R 0603 Ceramic capacitor									
R31 RESISTOR 18 1% 1/10W 0603 Resistor C45 CAPACITOR 10uF 6.3WVDC X5R 0603 Ceramic capacitor U16 OSC 29.4912MHz unknown SMTOSC Surface Mount Oscillator J7 TP8 LPPB042NFSS 8pos, .050" pitch LPPB042NFSS connector r header J4 TP8 LPPB042NFSS 8pos, .050" pitch LPPB042NFSS connector r header J3 CamLink unknown unknown 10226-5212PL unknown C48 CAPACITOR 0.33uF 10WVDC X5R 0603 Ceramic capacitor C47 CAPACITOR 10nF 50WVDC X7R 0603 Ceramic capacitor									
C45 CAPACITOR 10uF 6.3WVDC X5R 0603 Ceramic capacitor U16 OSC 29.4912MHz unknown SMTOSC Surface Mount Oscillator J7 TP8 LPPB042NFSS 8pos, .050" pitch LPPB042NFSS connector r header J4 TP8 LPPB042NFSS 8pos, .050" pitch LPPB042NFSS connector r header J3 CamLink unknown unknown 10226-5212PL unknown C48 CAPACITOR 0.33uF 10WVDC X5R 0603 Ceramic capacitor C47 CAPACITOR 10nF 50WVDC X7R 0603 Ceramic capacitor									
U16 OSC 29.4912MHz unknown SMTOSC Surface Mount Oscillator J7 TP8 LPPB042NFSS 8pos, .050" pitch LPPB042NFSS connector header J4 TP8 LPPB042NFSS 8pos, .050" pitch LPPB042NFSS connector header J3 CamLink unknown unknown 10226-5212PL unknown C48 CAPACITOR 0.33uF 10WVDC X5R 0603 Ceramic capacitor C47 CAPACITOR 10nF 50WVDC X7R 0603 Ceramic capacitor									
J7 TP8 LPPB042NFSS 8pos, .050" pitch LPPB042NFSS connector header J4 TP8 LPPB042NFSS 8pos, .050" pitch LPPB042NFSS connector header J3 CamLink unknown unknown 10226-5212PL unknown C48 CAPACITOR 0.33uF 10WVDC X5R 0603 Ceramic capacitor C47 CAPACITOR 10nF 50WVDC X7R 0603 Ceramic capacitor									
r header J4 TP8 LPPB042NFSS 8pos, .050" pitch LPPB042NFSS connecto r header J3 CamLink unknown unknown 10226-5212PL unknown C48 CAPACITOR 0.33uF 10WVDC X5R 0603 Ceramic capacitor C47 CAPACITOR 10nF 50WVDC X7R 0603 Ceramic capacitor									
J4 TP8 LPPB042NFSS 8pos, .050" pitch LPPB042NFSS connecto r header J3 CamLink unknown unknown 10226-5212PL unknown C48 CAPACITOR 0.33uF 10WVDC X5R 0603 Ceramic capacitor C47 CAPACITOR 10nF 50WVDC X7R 0603 Ceramic capacitor			71.5.0.421	.41 00	opos, .(JJO PIC	U 11	71 5 0 0 4 2 1	
r header J3 CamLink unknown unknown 10226-5212PL unknown C48 CAPACITOR 0.33uF 10WVDC X5R 0603 Ceramic capacitor C47 CAPACITOR 10nF 50WVDC X7R 0603 Ceramic capacitor			LPPB042	NFSS	8pos, .0)50" pit	ch	LPPB0421	NFSS connecto
C48 CAPACITOR 0.33uF 10WVDC X5R 0603 Ceramic capacitor C47 CAPACITOR 10nF 50WVDC X7R 0603 Ceramic capacitor						_			
C47 CAPACITOR 10nF 50WVDC X7R 0603 Ceramic capacitor								~ '	
JMP1 RESISTOR omit 1% 1/10W 0603 Resistor									
	JMP1	RESISTO	R	omit	1% 1/10	V	0603	Resistor	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					3
U20	FIN1002M5	unknown	unknown	TSOT23-	5	single LVDS receiver
C94	CAPACITOR	10pF	25WVDC 2	K7R	0603	Ceramic capacitor
R37	RESISTOR	100	1% 1/10V	V	0603	Resistor
R36	RESISTOR	100	1% 1/100	V	0603	Resistor
C29	CAPACITOR	0.1uF	16WVDC X	ζ7R	0603	Ceramic capacitor
R12	RESISTOR	51.1	1% 1/100		0603	Resistor
C22	CAPACITOR	0.1uF	16WVDC X	K7R	0603	Ceramic capacitor
R6	RESISTOR	51.1	1% 1/10V	V	0603	Resistor
C23	CAPACITOR	0.1uF	16WVDC 2		0603	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
บ7	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	Resisto	
R14	RESISTOR	8.87k	1%	0603	Resisto	
R15	RESISTOR	121k	1%	0603	Resisto	
R13	RESISTOR	121k	1%	0603	Resisto	
R11	RESISTOR	121k	1%	0603	Resistor	
R8	RESISTOR	73.2k	1%	0603	Resistor	
R9	RESISTOR	21.5k	1%	0603	Resistor	
R10 R4	RESISTOR RESISTOR	3.00k 121k	1% 1%	0603	Resiston Resiston	
R2	RESISTOR RESISTOR	121k	1%	0603 0603		
gnd_lug!			unknown		Resiston unknown	_
gnd_lug			unknown		unknown	
gnd_lug			unknown		unknown	
gnd_lug(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		Resisto	_
X5/C10	CAPACITOR	DNP	50WVDC	0603		capacitor
X5/D6	DIODE 1N914UR		DO213AA			-
X5/C11	CAPACITOR	22nF	50WVDC	0603		capacitor
X5/D5	DIODE 1N914UR		DO213AA			
X5/C8	CAPACITOR	22nF	50WVDC	0603		capacitor
X5/D4	DIODE 1N914UR	N/A	DO213AA	Signal	Diode	
X5/C9	CAPACITOR	22nF	50WVDC	0603	Ceramic	capacitor
X5/D3	DIODE 1N914UR	N/A	DO213AA	Signal		
X5/R7	RESISTOR	200	1% 1/10V		0603	Resistor
X5/R6	RESISTOR	200	1% 1/100		0603	Resistor
X5/R2	RESISTOR	200	1% 1/10V		0603	Resistor
X5/C7	CAPACITOR	22nF	50WVDC	0603	Ceramic	capacitor
F0/F0						

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X5/C6	CAPACITOR	22nF	50WVDC 0603	Ceramic	capacito	r
X5/D2	DIODE 1N914UR	N/A	DO213AA Signal		_	
X5/C5	CAPACITOR	22nF	50WVDC 0603		capacito	r
X5/C4	CAPACITOR	22nF	50WVDC 0603		capacito	
X5/D1	DIODE 1N914UR	N/A	DO213AA Signal	Diode	_	
X5/C3	CAPACITOR	22nF	50WVDC 0603	Ceramic	capacito	r
X5/C2	CAPACITOR	22nF	50WVDC 0603	Ceramic	capacito	r
X5/C1	CAPACITOR	22nF	50WVDC 0603	Ceramic	capacito	r
X5/R1	RESISTOR	200	1% 1/10W	0603	Resistor	
X5/R3	RESISTOR	100	1% 1/10W	0603	Resistor	
X5/R4	RESISTOR	100	1% 1/10W	0603	Resistor	
X5/R5	RESISTOR	100	1% 1/10W	0603	Resistor	
X5/U1		unknown		PDT switc		
J8			FX2CA-68S-1.27			connector
L2	IHLP5050FDER100	M01		n IHLP505	0	incuctor
R35	RESISTOR	100	1% 1/10W	0603	Resistor	
J6	FX2S unknown		FX2CA-68S-1.27			connector
C44	CAPACITOR	10nF	50WVDC X7R	0603		capacitor
C43	CAPACITOR	10uF	6.3WVDC X5R	0603		capacitor
L8	EXC-3BB102H		unknown 0603	EMI chi	-	
C42	CAPACITOR	1uF	10WVDC X5R	0603	capacito	
C41	CAPACITOR	1uF	10WVDC X5R	0603	capacito	r
L7	EXC-3BB102H		unknown 0603	EMI chi		
L6	EXC-3BB102H		unknown 0603	EMI chi	-	
U14	LT1761ES5-1.5		unknown TSOT23		unknown	_
C17	CAPACITOR	10uF	6.3WVDC X5R	0603		capacitor
C16	CAPACITOR	10uF	6.3WVDC X5R	0603		capacitor
L4	CDPH4D19FNP-220I			n CDPH4D1		incuctor
C18	CAPACITOR	1uF	10WVDC X5R	0603	capacito	r
U3	LM3480IM3-3.3		unknown SOT23	unknown		
L3	CDPH4D19FNP-220I			n CDPH4D1		incuctor
L1	IHLP5050FDER100			n IHLP505	_	incuctor
J5	747467-1		unknown 747467		unknown	
C19	CAPACITOR	1uF	10WVDC X5R	0603	capacito	r
U2	ZMR250F unknown	unknown	SOT23 unknow	n		

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