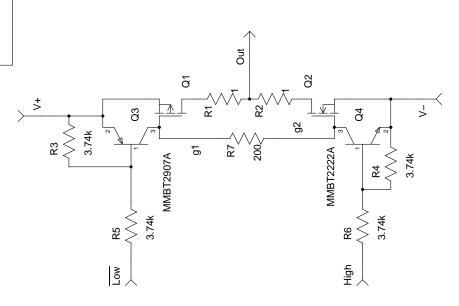
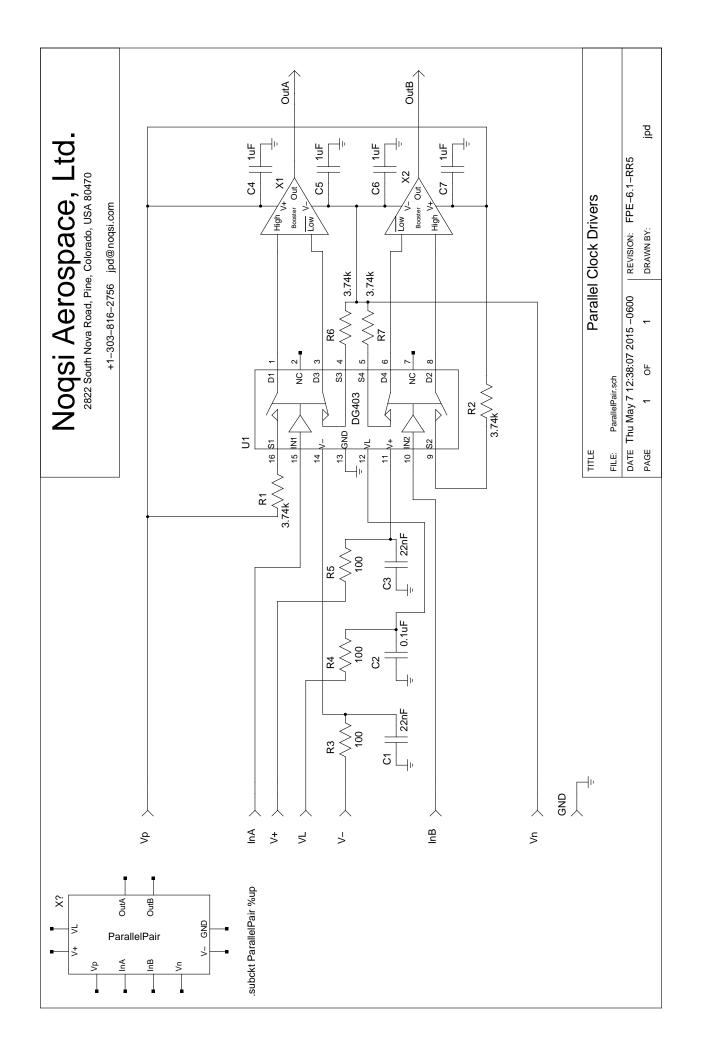
# Nodsi Aerospace, Ltd. 2822 South Nova Road, Pine, Colorado, USA 80470

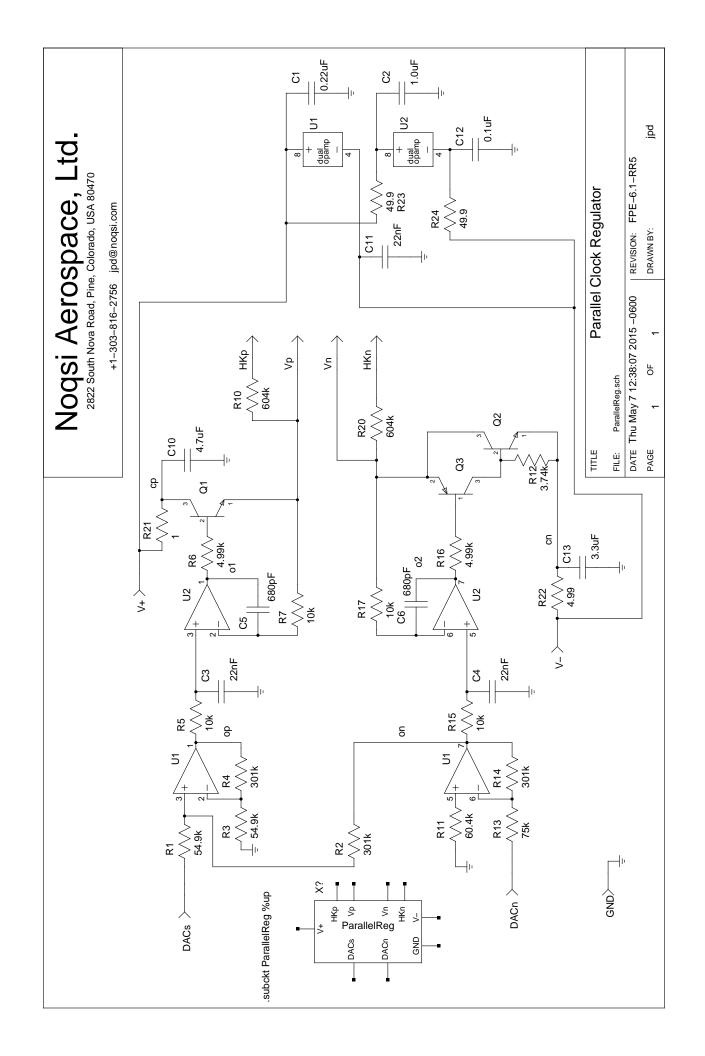
+1-303-816-2756 jpd@noqsi.com

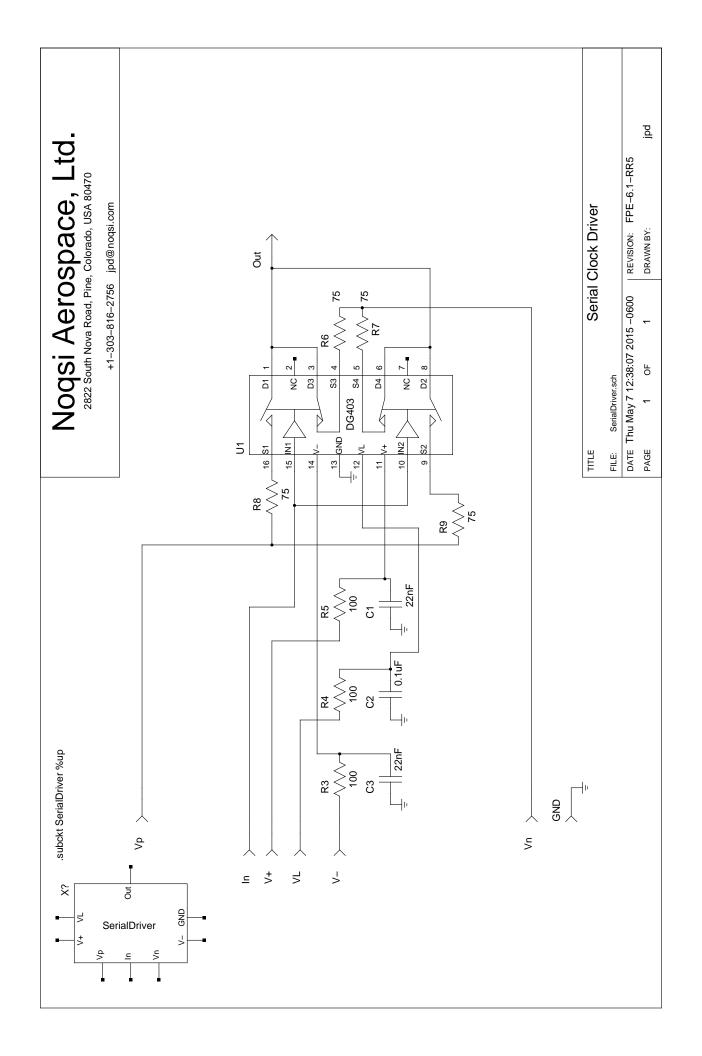


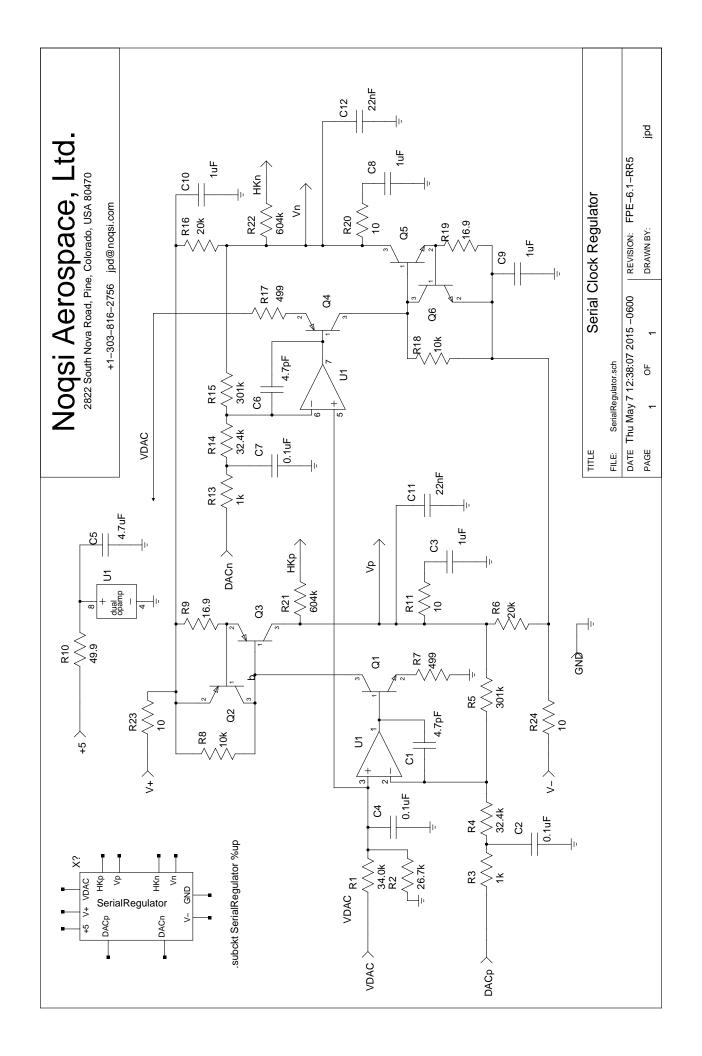
subckt Booster %up.

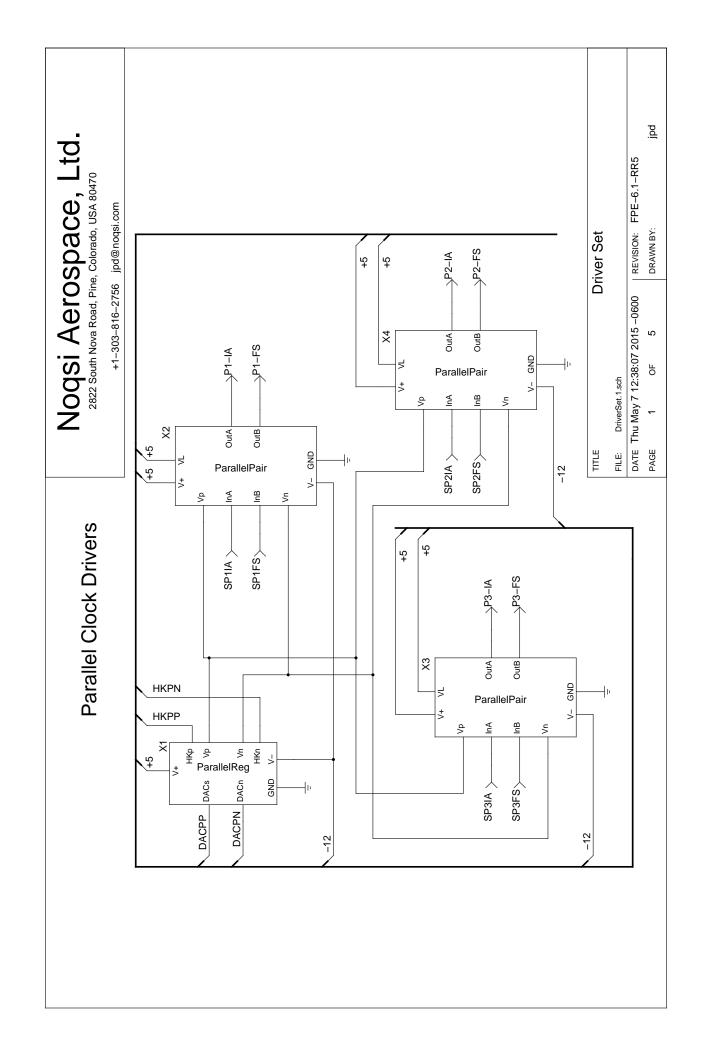
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Parallel clock current booster		REVISION: FPE-6.1-RR5	DRAWN BY:
Parallel cloo	Booster.sch	DATE Thu May 7 12:38:07 2015 -0600	1 OF 1
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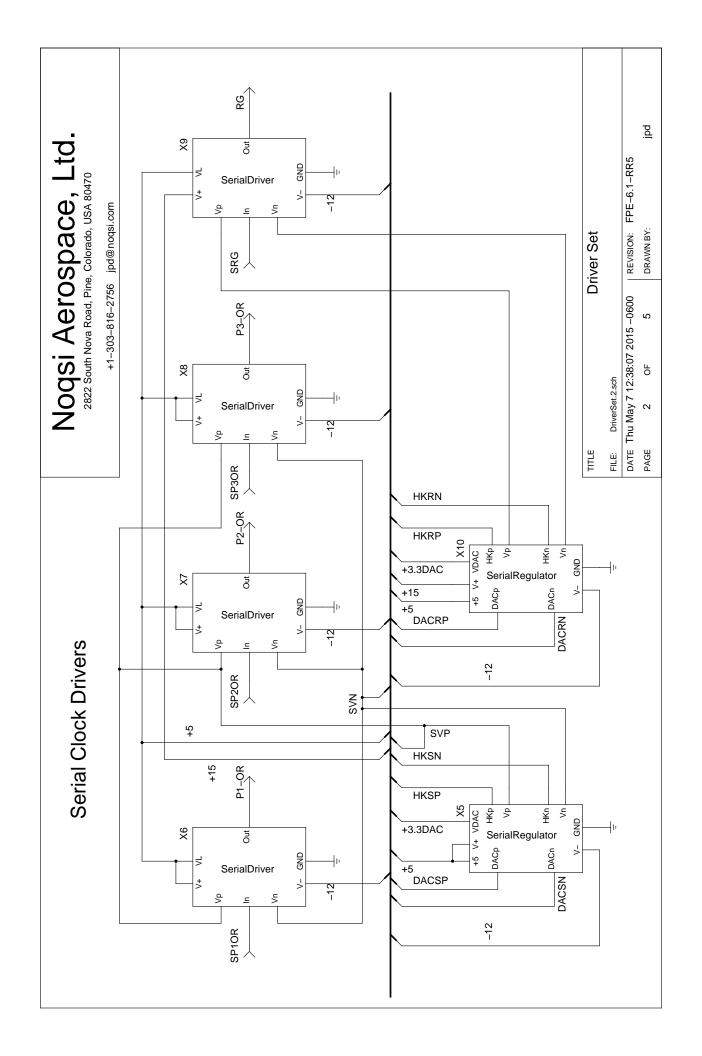


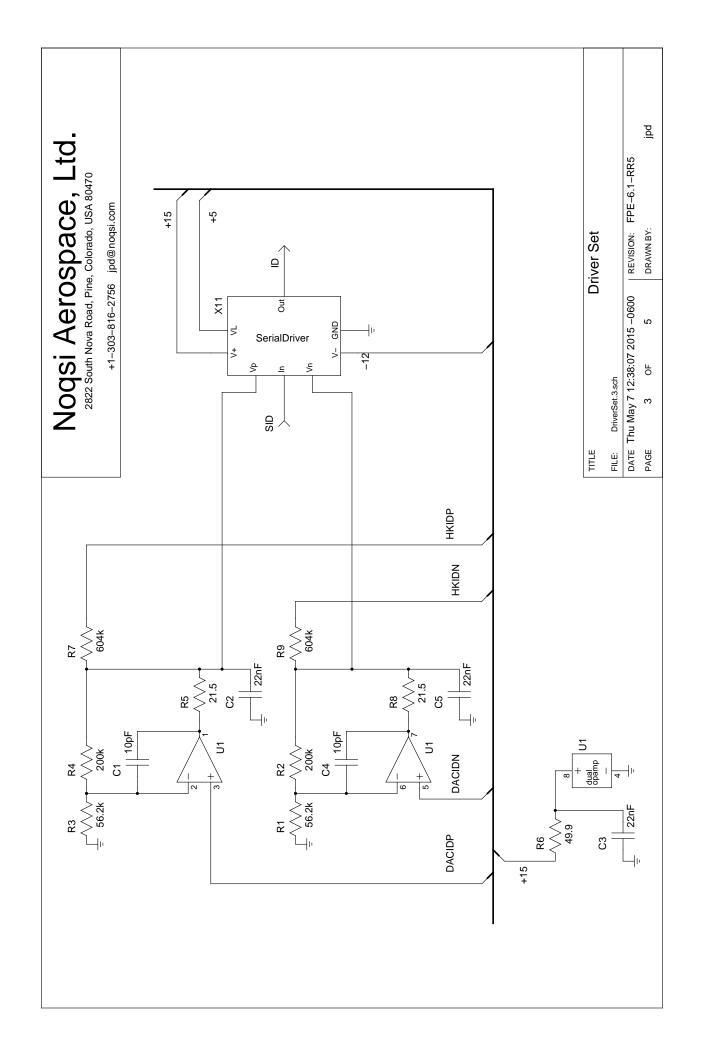


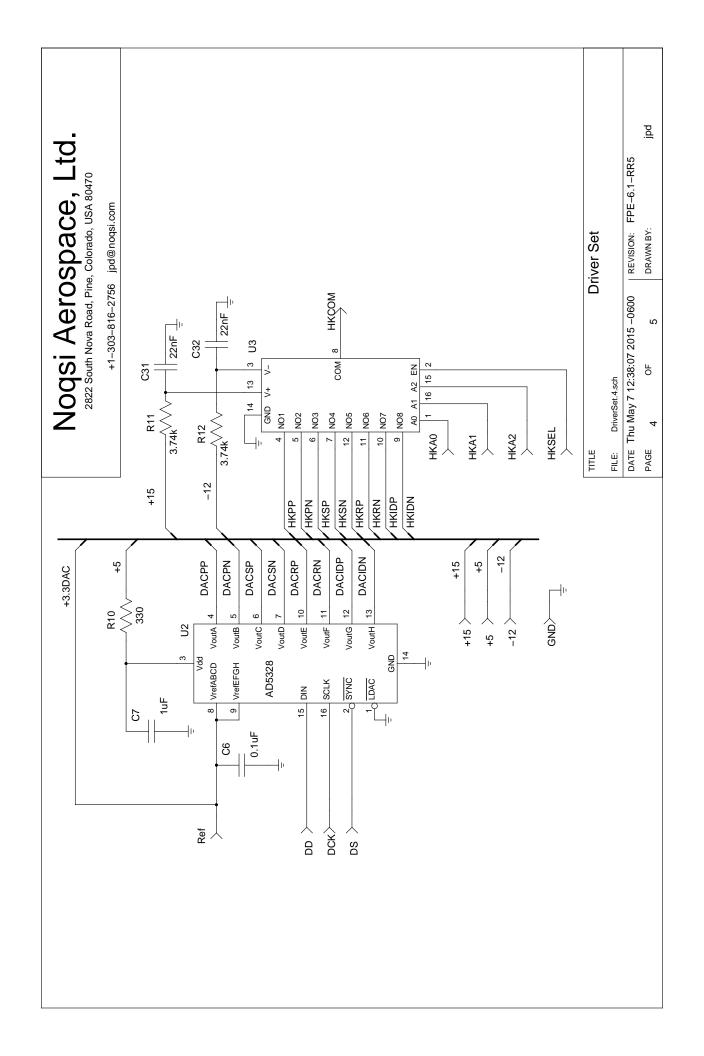




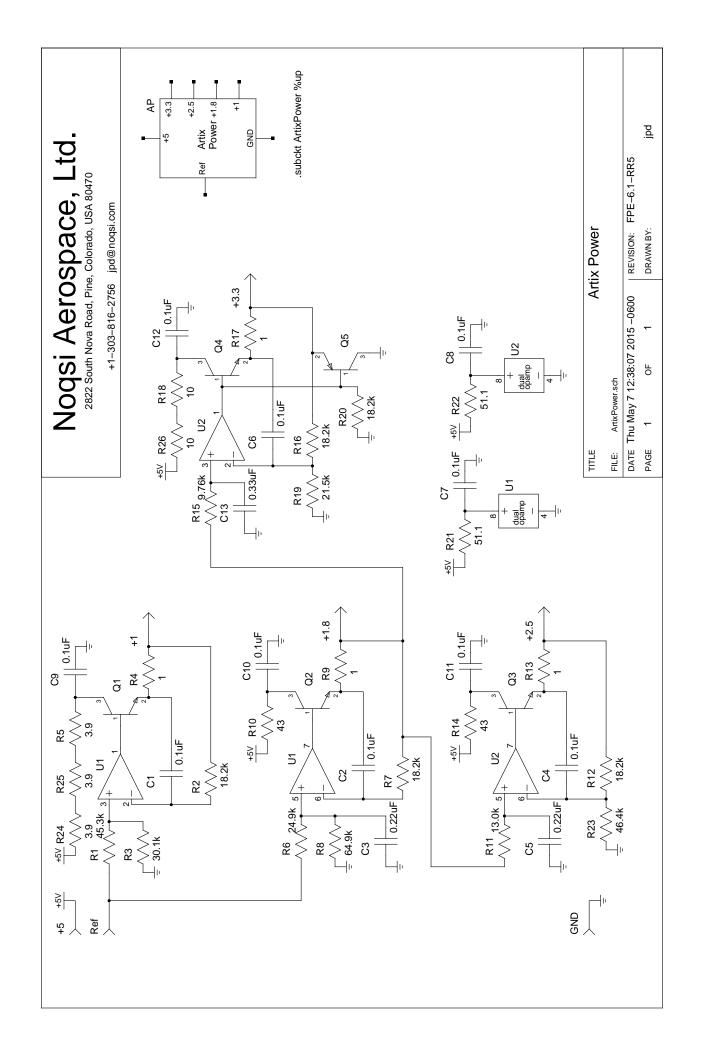


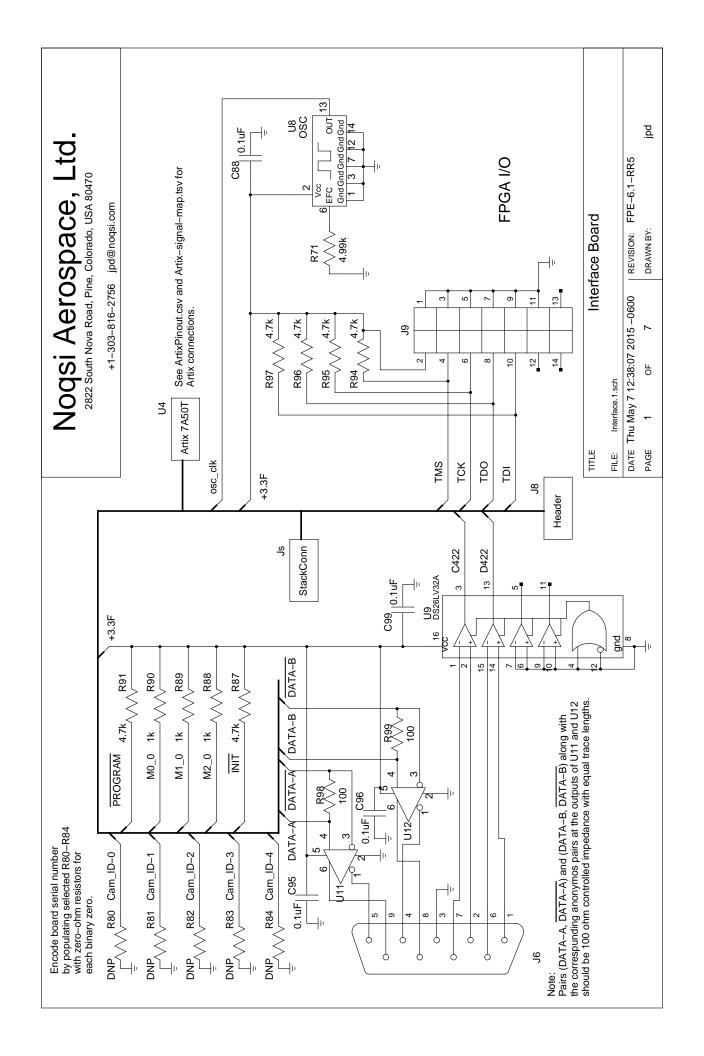


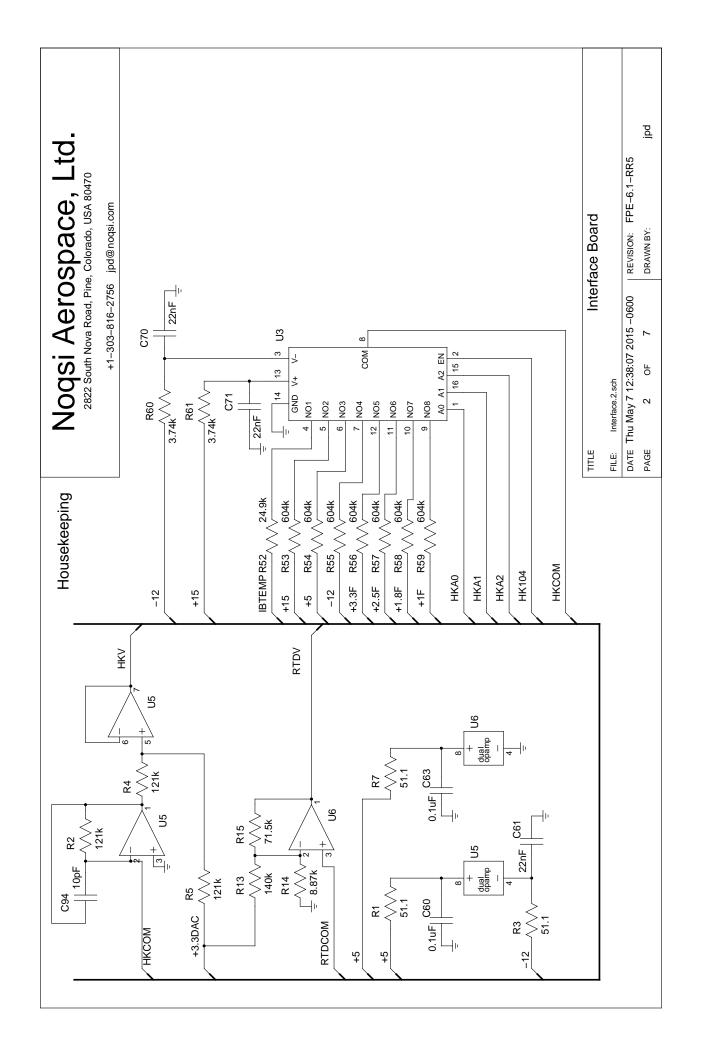




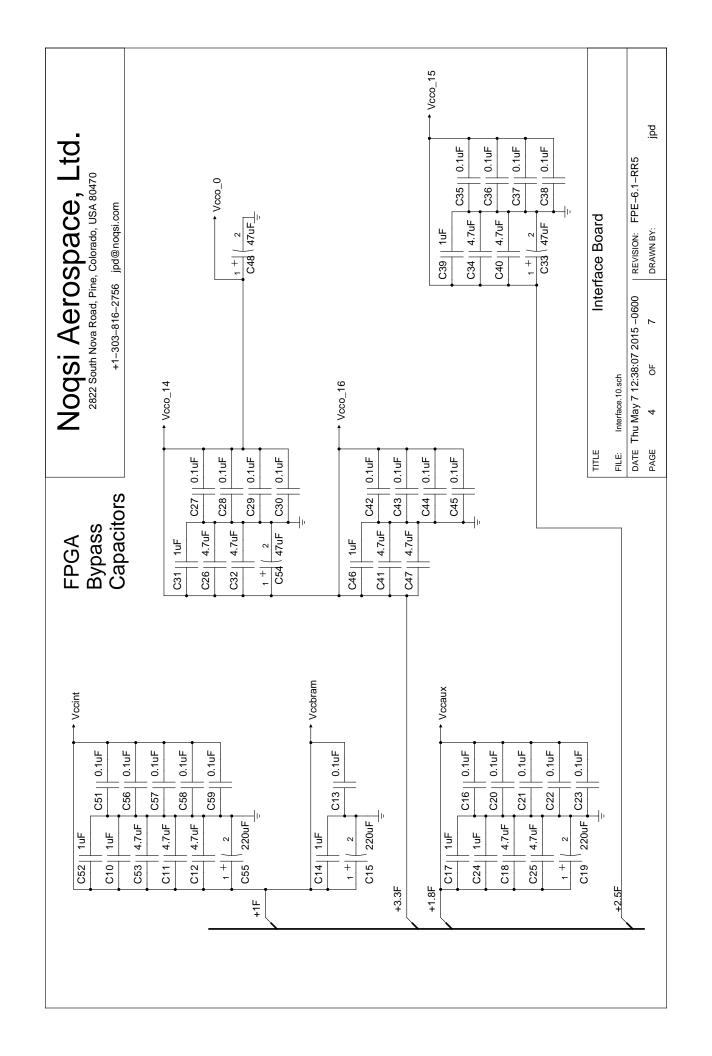
### bd Nodsi Aerospace, Ltd. 2822 South Nova Road, Pine, Colorado, USA 80470 REVISION: FPE-6.1-RR5 +1-303-816-2756 jpd@noqsi.com DRAWN BY: **Driver Set** P3-U DATE Thu May 7 12:38:07 2015 -0600 X14 Ont 2 SerialDriver FILE: DriverSet.5.sch SP3U 2 P2-U X13 Ont GND SerialDriver SVP SP2U SVN 42 4 P1-C X12 Ont SerialDriver SP1U

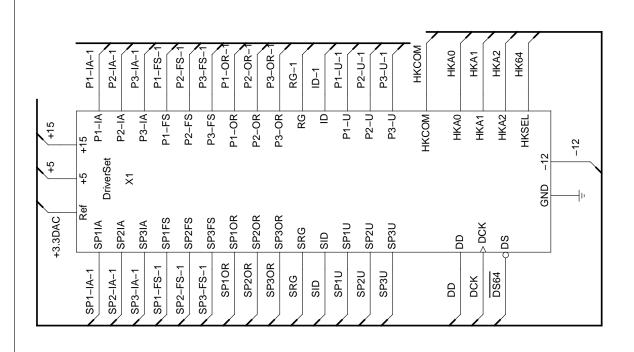






### bd Nodsi Aerospace, Ltd REVISION: FPE-6.1-RR5 2822 South Nova Road, Pine, Colorado, USA 80470 +1-303-816-2756 jpd@noqsi.com Interface Board +3.3F DRAWN BY: +2.5F HKCS SDO 7 HKD SCK 8 HKC C75 0.1uF DATE Thu May 7 12:38:07 2015 -0600 C76 3 REF VDDVIO 10 5 AD7984BRMZ SDI 6 IN- GND CNV 6 FILE: Interface.3.sch 10nF 10nF PAGE ± 4.7uF R63 +3.3DAC Housekeeping ADC 22nF 3 U1 COM 8 C84 1 16 15 2 A0 A1 A2 EN 13 GND V+ 6 NO3 4 NO1 7 NO4 12 NO5 11 NO6 9 NO8 5 NO2 10 NO7 HK120 ¥ RTDV HK112 ¥

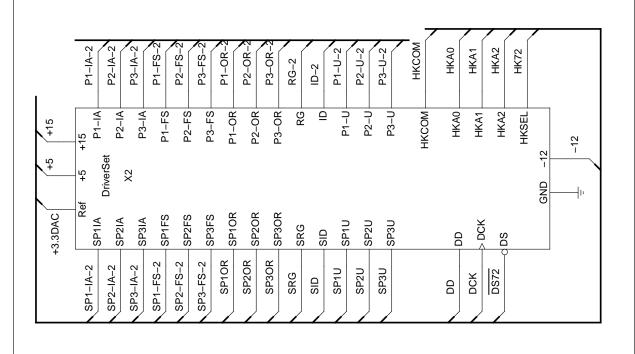




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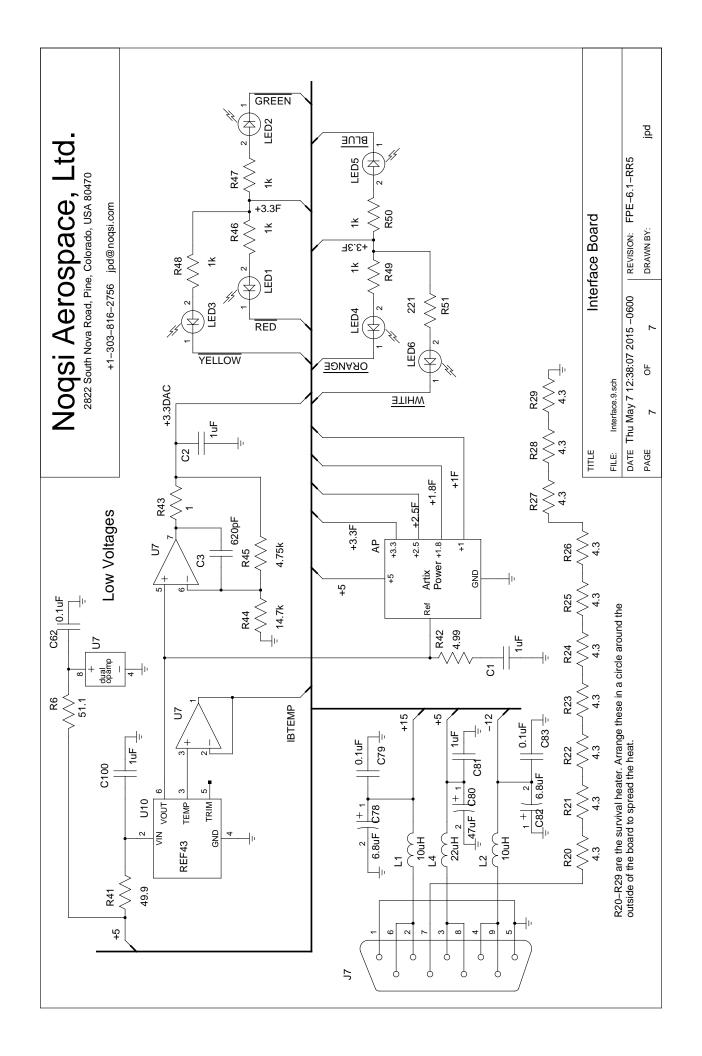
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rd		REVISION: FPE-6.1-RR5	
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	.sch	12:38:07 2	PO
	Interface.6.sch	Thu May 7	9
TITLE	FILE	DATE	PAGE



Apr	17, 15 13:26	Interface.J8.txt	Page 1/1
J8	1	GND	
J8	2	ArtixDebug7	
J8	3	GND	
J8	4	ArtixDebug6	
J8	5	GND	
J8	6	DONE_0	
J8	7	GND	
J8	8	M0_0	
J8	9	GND	
J8	10	M1_0	
J8	11	GND	
J8	12	M2_0	
J8	13	GND	
J8	14	\_INIT\_	
J8	15	GND	
J8	16	\_PROGRAM\_	

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U4	F18	SP1-IA-4	CCD_IA1_pin[3]	
U4	B20		CCD_IA1_pin[2]	
U4	E18		CCD_IA1_pin[1]	
U4	A20		CCD_IA1_pin[0]	
U4	B21		CCD_IA2_pin[3]	
U4	A21		CCD_IA2_pin[2]	
U4	C22		CCD_IA2_pin[1]	
U4	B22		CCD_IA2_pin[0]	
U4	C13		CCD_IA3_pin[3]	
U4	B15		CCD_IA3_pin[2]	
U4	B16		CCD_IA3_pin[1]	
U4	B13		CCD_IA3_pin[0]	
U4 U4	D16		CCD_FS1_pin[3] CCD_FS1_pin[2]	
U4	E14 C14		CCD_FS1_pin[2] CCD_FS1_pin[1]	
U4	E13		CCD_FS1_pin[1]	
U4	E22		CCD_FS2_pin[3]	
U4	E21		CCD_FS2_pin[2]	
U4	D22		CCD_FS2_pin[1]	
U4	D21		CCD_FS2_pin[0]	
U4	D14		CCD_FS3_pin[3]	
U4	D15		CCD_FS3_pin[2]	
U4	C15		CCD_FS3_pin[1]	
U4	E16		CCD_FS3_pin[0]	
U4	L21	SDO-D-4 CCD_ADC_S		
U4	K19	SDO-C-4 CCD_ADC_S		
U4	H15	SDO-B-4 CCD_ADC_S		
U4	G17	SDO-A-4 CCD_ADC_S		
U4	K18	SDO-D-3 CCD_ADC_S		
U4	G18	SDO-C-3 CCD_ADC_S		
U4 U4	J20 J14	SDO-B-3 CCD_ADC_S SDO-A-3 CCD_ADC_S		
U4	J21	SDO-A-3 CCD_ADC_S		
U4	M21	SDO-C-2 CCD_ADC_S		
U4	L20	SDO-B-2 CCD_ADC_S		
U4	J15	SDO-A-2 CCD_ADC_S		
U4	J19	SDO-D-1 CCD_ADC_S		
U4	H14	SDO-C-1 CCD_ADC_S		
U4	Н19	SDO-B-1 CCD_ADC_S		
U4	N22	SDO-A-1 CCD_ADC_S	Sdi_pin[0]	
U4	V18		Sel_pin[2]	
U4	V19		Sel_pin[1]	
U4	AB20		Sel_pin[0]	
U4	L18		DebugStatus_pins[7]	
U4	K21		DebugStatus_pins[6]	
U4	H18	\_RED\_ DebugStat		
U4	K22	·— ·—	DebugStatus_pins[4]	
U4 U4	G20 H20	· <del></del>	DebugStatus_pins[3] DebugStatus_pins[2]	
U4 U4	H20 J22		DebugStatus_pins[2] DebugStatus_pins[1]	
U4	H22		DebugStatus_pins[1] DebugStatus_pins[0]	
U4	F13	·—	Cam_ID_pin[4]	
U4	E17	<del></del>	Cam_ID_pin[3]	
U4	F15		Cam_ID_pin[2]	
U4	F14		Cam_ID_pin[1]	
U4	F16		Cam_ID_pin[0]	
U4	E19	osc_clk osc_clk_0		
U4	Y18		mpClk_pin	
U4	R18	SP1U CCD_SU1_I	pin	
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•	17, 15 13:27	Interface.U4.txt	Page 2/5
U4	N13	SP2U CCD_SU2_pin	
U4 U4	N14 R17	SP3U CCD_SU3_pin SP1OR CCD_S1_pin	
U4	N17	SP2OR CCD_S2_pin	
U4	P17	SP3OR CCD_S3_pin	
U4	R16	SRG CCD_RstGate_pin	
U4	P15	SID CCD_InDiode_pin	
U4	L16	Clamp CCD_ADC_Clamp_pin	
U4	L14	DeInt CCD_ADC_DeInt_pin	
U4	L15	Int CCD_ADC_Int_pin	
U4	K16	CNV CCD_ADC_Cnv_pin	
U4	K17	SCK CCD_ADC_Sck_pin	
U4 U4	R22 U20	D422 Cmd_DIN_pin C422 Cmd_SCK_pin	
U4	G15	DATA-A dataA_out_pin_p	
U4	H13	DATA-B dataB_out_pin_p	
U4	G16	\_DATA-A\_ dataA_out_pin_n	
U4	G13	\_DATA-B\_ dataB_out_pin_n	
U4	AA21	HKC HSK_ADC_Sck_pin	
U4	Y22	HKD HSK_ADC_Sdi_pin	
U4	AA20	\_HKCS\_ HSK_ADC_Cnv_pin	
U4	W21	HK0 HSK_ADC_0_pin	
U4	W22	HK8 HSK_ADC_8_pin	
U4 U4	U22 V22	HK16 HSK_ADC_16_pin HK24 HSK_ADC_24_pin	
U4	Y21	HK32 HSK_ADC_32_pin	
U4	T19	HK40 HSK_ADC_40_pin	
U4	T20	HK48 HSK_ADC_48_pin	
U4	P21	HK56 HSK_ADC_56_pin	
U4	P19	HK64 HSK_ADC_64_pin	
U4	T21	HK72 HSK_ADC_72_pin	
U4	U21	HK80 HSK_ADC_80_pin	
U4	R19	HK88 HSK_ADC_88_pin	
U4 U4	R21 U17	HK96 HSK_ADC_96_pin HK104 HSK_ADC_104_pin	
U4 U4	W17	HK104 HSK_ADC_104_pin HK112 HSK_ADC_112_pin	
U4	P20	HK120 HSK_ADC_120_pin	
U4	J17	\_DSO\CLS_DCS_0_pin	
U4	M13	\_DS8\_ CLS_DCS_8_pin	
U4	L13	\_DS16\_ CLS_DCS_16_pin	
U4	K13	\_DS24\_ CLS_DCS_24_pin	
U4	K14	\_DS32\_ CLS_DCS_32_pin	
U4	N20	\_DS40\_	
U4 U4	M20 N18	\_DS48\_ CLS_DCS_48_pin \_DS56\_ CLS_DCS_56_pin	
U4 U4	M15	\_DS64\_	
U4	M16	\_DS72\_ CLS_DCS_72_pin	
U4	J16	\_DS80\_ CLS_DCS_80_pin	
U4	H17	\_DS88\_	
U4	N19	\_DS96\_	
U4	M18	DD CLC_DAC_Din_pin	
U4	L19	DCK CLC_DAC_Sck_pin	
U4	M9	GND VN_0	
U4	L10	GND VP_0	
U4 U4	G11 N10	DONE_0 DONE_0 GND DXP_0	
U4 U4	K9	GND GNDADC_0	
U4	K10	+1.8F VCCADC_0	
U4	M10	GND VREFP_0	
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•		CINID		IIIOIIUOOIOTIIAL	1 aye 3/3
U4 U4	E12 V12	GND TCK	VCCBATT_0 TCK_0		
U4	N9	GND	DXN_0		
U4	L9	GND	VREFN_0		
U4	L12	C422	CCLK_0		
U4	U11	M0_0	M0_0		
U4	U10	M1_0	M1_0		
U4	U12	\_INIT\		'_B_0	
U4	R13	TDI	TDI_0		
U4	U13	TDO	TDO_0		
U4	U9	M2_0	$M2_0$		
U4	U8	+3.3F	3.30		
U4	N12	\_PROGI		RAM_B_0	
U4	T13	TMS	TMS_0		
U4	F12	+3.3F	VCCO_0		
U4	T12	+3.3F	VCCO_0		
U4	AA17	GND	VCCO_13		
U4	AB14	GND	VCCO_13		
U4	V16	GND	VCCO_13		
U4 U4	W13 Y10	GND	VCCO_13 VCCO_13		
U4 U4	M14	GND +3.3F	3.30		
U4 U4	M14 P18	+3.3F +3.3F	3.30		
U4	R15	+3.3F	3.30		
U4	T22	+3.3F	3.30		
U4	U19	+3.3F	3.30		
U4	Y20	+3.3F	3.30		
U4	G19	+2.5F	2.50		
U4	H16	+2.5F	2.50		
U4	J13	+2.5F	2.50		
U4	K20	+2.5F	2.50		
U4	L17	+2.5F	2.50		
U4	N21	+2.5F	2.50		
U4	A17	+3.3F	3.30		
U4	B14	+3.3F	3.30		
U4	C21	+3.3F	3.30		
U4	D18	+3.3F	3.30 3.30		
U4	E15	+3.3F +3.3F	3.30		
U4 U4	F22 AA7	+3.3F GND	VCCO_34		
U4	AB4	GND	VCCO_34 VCCO_34		
U4	R5	GND	VCCO_34 VCCO_34		
U4	T2	GND	VCCO_31 VCCO_34		
U4	V6	GND	VCCO_34		
U4	W3	GND	VCCO_34		
U4	C1	GND	VCCO_35		
U4	F2	GND	VCCO_35		
U4	Н6	GND	VCCO_35		
U4	J3	GND	VCCO_35		
U4	M4	GND	VCCO_35		
U4	N1	GND	VCCO_35		
U4	D11	GND	MGTPRXP1_216		
U4	B10	GND	MGTPRXP2_216		
U4	D9	GND	MGTPRXP3_216		
U4	B8	GND	MGTPRXP0_216		
U4	C11	GND	MGTPRXN1_216		
U4	A10	GND	MGTPRXN2_216		
U4 U4	C9 A8	GND GND	MGTPRXN3_216 MGTPRXN0_216		
04	Ao	GMD	MGT LKVINO 710		

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U4	F8	GND	MGTRREF_216	
U4	D8	GND	GND	
U4	A2	GND	GND	
U4	A3	GND	GND	
U4	A5	GND	GND	
U4	A7	GND	GND	
U4	A9	GND	GND	
U4	A11	GND	GND	
U4	A12	GND	GND	
U4	A22	GND	GND	
U4	AA2	GND	GND	
U4	AA12	GND	GND	
U4	AA22	GND	GND	
U4	AB9	GND	GND	
U4	AB19	GND	GND	
U4	В3	GND	GND	
U4	B12	GND	GND	
U4	B19	GND	GND	
U4	C3	GND	GND	
U4	C6	GND	GND	
U4	C10	GND	GND	
U4	C12	GND	GND	
U4	C16	GND	GND	
U4	D3	GND	GND	
U4	D4	GND	GND	
U4	D12	GND	GND	
U4	D13	GND	GND	
U4	E4	GND	GND	
U4	E5	GND	GND	
U4	E7	GND	GND	
U4	E9	GND	GND	
U4	E11	GND	GND	
U4	E20	GND	GND	
U4	F5	GND	GND	
U4	F11	GND	GND	
U4	F17	GND	GND	
U4	G5	GND	GND	
U4	G6	GND	GND	
U4	G7	GND	GND	
U4	G8	GND	GND	
U4	G9	GND	GND	
U4	G10	GND	GND	
U4	G12	GND	GND	
U4	G14	GND	GND	
U4	H1	GND	GND	
U4	H7	GND	GND	
U4	H9	GND	GND	
U4	H11	GND	GND	
U4 U4	H21 J8	GND	GND GND	
U4 U4	Ј8 J10	GND GND	GND	
U4	J12	GND	GND	
U4 U4	J12 J18	GND	GND	
U4 U4	K5	GND	GND	
U4	K7	GND	GND	
U4	K11	GND	GND	
U4	K15	GND	GND	
U4	L2	GND	GND	
U4	L8	GND	GND	
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U4	L22	GND	GND		
U4	M7	GND	GND		
U4	M11	GND	GND		
U4	M19	GND	GND		
U4	N6	GND	GND		
U4	N8	GND	GND		
U4	N16	GND	GND		
U4	P3	GND	GND		
U4 U4	P7 P9	GND GND	GND GND		
U4	P11	GND	GND		
U4	P13	GND	GND		
U4	R8	GND	GND		
U4	R10	GND	GND		
U4	R12	GND	GND		
U4	R20	GND	GND		
U4	Т7	GND	GND		
U4	Т9	GND	GND		
U4	T11	GND	GND		
U4	T17	GND	GND		
U4	U4	GND	GND		
U4	U14	GND	GND		
U4	V1	GND	GND		
U4	V11	GND	GND		
U4 U4	V21 W8	GND GND	GND GND		
U4	W18	GND	GND		
U4	Y5	GND	GND		
U4	Y15	GND	GND		
U4	Н8	+1F	VCCINT		
U4	H10	+1F	VCCINT		
U4	J7	+1F	VCCINT		
U4	Ј9	+1F	VCCINT		
U4	K8	+1F	VCCINT		
U4	L7	+1F	VCCINT		
U4	M8	+1F	VCCINT		
U4	N7	+1F	VCCINT		
U4 U4	P8 P10	+1F +1F	VCCINT VCCINT		
U4	R7	+1F	VCCINT		
U4	R9	+1F	VCCINT		
U4	T8	+1F	VCCINT		
U4	T10	+1F	VCCINT		
U4	H12	+1.8F	1.80		
U4	K12	+1.8F	1.80		
U4	M12	+1.8F	1.80		
U4	P12	+1.8F	1.80		
U4	R11	+1.8F	1.80		
U4	J11	+1F	VCCBRAM		
U4	L11	+1F	VCCBRAM		
U4	N11	+1F	VCCBRAM		

May 07,	15 12:48		Interf	ace.bon	n.txt		Page 1/19
refdes	device value	spec	footpri	nt	descript	cion	
R29	RESISTOR	4.3	5% 1W	2512	Resistor	<u>-</u>	
R28	RESISTOR	4.3	5% 1W	2512	Resistor	<u>-</u>	
R26	RESISTOR	4.3	5% 1W	2512	Resistor	<u>-</u>	
R27	RESISTOR	4.3	5% 1W	2512	Resistor	<u>-</u>	
R24	RESISTOR	4.3	5% 1W	2512	Resistor	<u>-</u>	
R25	RESISTOR	4.3	5% 1W	2512	Resistor	<u>-</u>	
R22	RESISTOR	4.3	5% 1W	2512	Resisto		
R23	RESISTOR	4.3	5% 1W	2512	Resistor		
R21	RESISTOR	4.3	5% 1W	2512	Resistor		
R20	RESISTOR	4.3	5% 1W	2512	Resisto		
U7	DUAL_OPAMP	LM6142A1	ĽΜ	N/A	S08	generic	dual operational
	ier, SO8						
R6	RESISTOR	51.1	1% 1/10		0603	Resistor	
C1	CAPACITOR	1uF	10WVDC		0805		capacitor
R42	RESISTOR	4.99	1% 1/10		0603	Resistor	
C62	CAPACITOR	0.1uF	16WVDC		0603		capacitor
C2	CAPACITOR	luF	10WVDC		0805		capacitor
R45	RESISTOR	4.75k	1% 1/10		0603	Resistor	
C3	CAPACITOR	620pF	50WVDC		0603		capacitor
R44	RESISTOR	14.7k	1% 1/10		0603	Resistor	
R43	RESISTOR	1	1% 1/10		0603	Resistor	
C79	CAPACITOR	0.1uF	50WVDC		0805		capacitor
C83	CAPACITOR	0.1uF	50WVDC		0805		capacitor
C81	CAPACITOR	1uF	10WVDC		0805		capacitor
C82	POLARIZED_CAPACI		6.8uF	35WVDC	2711		n capacitor
C78	POLARIZED_CAPACI		6.8uF	35WVDC	2711		a capacitor
C80	POLARIZED_CAPACI		47uF	15WVDC	2711		a capacitor
L4 J7	CDPH4D19FNP-220N 747467-1		22uH	unknown 747467-1	CDPH4D19	unknown	incuctor
L2	IHLP5050FDER100N				IHLP505(		inquator
L1	IHLP5050FDER100N		10uH 10uH		IHLP5050		incuctor incuctor
R51	RESISTOR	221	1% 1/10		0603	, Resistor	
LED6	LED 67-2226-		unknown		LED	Kesiscoi	-
R50	RESISTOR	1k	1% 1/10V		0603	Resistor	^
LED5		SB4CT-ND			LED	RCDIBCOI	-
R49	RESISTOR	1k	1% 1/10t		0603	Resistor	^
LED4	LED 475-2481		unknown		LED	REBIBEOI	-
AP/C13	CAPACITOR	0.33uF	10WVDC		0805	Ceramic	capacitor
AP/R26	RESISTOR	10	5% 1W	2512	Resistor		CGF GC CC
AP/R18	RESISTOR	10	5% 1W	2512	Resistor		
AP/R14	RESISTOR	43	5% 1W	2512	Resistor	_	
AP/R10	RESISTOR	43	5% 1W	2512	Resistor		
AP/R24	RESISTOR	3.9	5% 1W	2512	Resisto		
AP/R25	RESISTOR	3.9	5% 1W	2512	Resisto		
AP/R23	RESISTOR	46.4k	1% 1/10		0603	Resistor	•
AP/C11	CAPACITOR	0.1uF	16WVDC		0603	Ceramic	capacitor
AP/C10	CAPACITOR	0.1uF	16WVDC	X7R	0603		capacitor
AP/C12	CAPACITOR	0.1uF	16WVDC		0603		capacitor
AP/C9	CAPACITOR	0.1uF	16WVDC		0603		capacitor
AP/C8	CAPACITOR	0.1uF	16WVDC		0603		capacitor
AP/R22	RESISTOR	51.1	1% 1/10		0603	Resistor	
AP/C7	CAPACITOR	0.1uF	16WVDC		0603		capacitor
AP/R21	RESISTOR	51.1	1% 1/10		0603	Resistor	
AP/R20	RESISTOR	18.2k	1% 1/10		0603	Resistor	
AP/R19	RESISTOR	21.5k	1% 1/10		0603	Resistor	•
AP/Q5	PNP_TRANSISTOR	MMBT2907		unknown		unknown	
AP/R17	RESISTOR	1	1% 1/10		0603	Resistor	Î.
AP/Q4	NPN_TRANSISTOR	MMBT2222	2A	unknown	UB	unknown	

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AP/C6	CAPACITOR	0.1uF	16WVDC	x7R	0603	Cerami	c capacitor
	RESISTOR	18.2k	1% 1/10		0603	Resist	
AP/R15	RESISTOR	9.76k	1% 1/10		0603	Resist	or
AP/C5	CAPACITOR	0.22uF	10WVDC		0805	Ceramio	c capacitor
	RESISTOR	1	1% 1/10	M	0603	Resist	
AP/Q3	NPN_TRANSISTOR	MMBT222		unknown		unknowi	
	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramio	c capacitor
AP/R12	RESISTOR	18.2k	1% 1/10	W	0603	Resist	
AP/R11	RESISTOR	13.0k	1% 1/10	W	0603	Resist	or
AP/U2	DUAL_OPAMP	LM6142A	IM	N/A	S08	generi	c dual operational
	ier, SO8						
AP/C3	CAPACITOR	0.22uF	10WVDC		0805		c capacitor
AP/R9	RESISTOR	1	1% 1/10		0603	Resist	
AP/Q2	NPN_TRANSISTOR			unknown	UB	unknowi	
AP/R8	RESISTOR	64.9k	1% 1/10		0603	Resist	
AP/C2	CAPACITOR	0.1uF	16WVDC		0603 0603 0603	Ceramio	c capacitor
AP/R7	RESISTOR	18.2k	1% 1/10				
AP/R6	RESISTOR	24.9k	1% 1/10		0603	Resist	or
AP/R5	RESISTOR	3.9	5% 1W	2512	Resist		
The state of the s	RESISTOR	1 MMDE222	5% 1/4W		Resist		
AP/Q1	NPN_TRANSISTOR			unknown		unknow	
AP/R3 AP/C1	RESISTOR CAPACITOR	30.1k 0.1uF	1% 1/101 16WVDC		0603 0603		or c capacitor
· ·	RESISTOR	18.2k	18 1/10		0603	Resist	
AP/RZ AP/R1	RESISTOR	45.3k	1% 1/10		0603		
AP/U1	DUAL_OPAMP	LM6142A		N/A	SO8		c dual operational
	ier, SO8	LMOTTZA	T1·1	IV/A	500	generic	c dual operacional
R48	RESISTOR	1k	1% 1/10	TAT	0603	Resist	or
LED3		94-1-ND	unknown		LED	RCDIDC	
R47	RESISTOR	1k	1% 1/10		0603	Resist	or
LED2		09-1-ND	unknown		LED		_
R46	RESISTOR	1k	1% 1/10		0603	Resist	or
LED1	LED 475-25	06-1-ND	unknown		LED		
C100	CAPACITOR	1uF	10WVDC	X7R	0805	Ceramio	c capacitor
R41	RESISTOR	49.9	1% 1/10	W	0603	Resist	or
U10	REFERENCE	REF43GS	N/A	S08		eference	
X2/X14/E			75	1% 1/10		0603	Resistor
X2/X14/E	R8 RESIST	'OR	75	1% 1/10		0603	Resistor
X2/X14/E			75	1% 1/10		0603	Resistor
X2/X14/I			75	1% 1/10		0603	Resistor
X2/X14/E			100	1% 1/10		0603	Resistor
X2/X14/0	C3 CAPACI	TOR	22nF	50WVDC	X7R	0603	Ceramic capacito
r	54 5525	IOD	100	10 1/10		0.503	Daniel III
X2/X14/I			100	1% 1/10°		0603	Resistor
X2/X14/0	C2 CAPACI	TOR	0.1uF	16WVDC	x/K	0603	Ceramic capacito
r v2/v14/r	ם ב ההמדמה	'O'B	100	19 1/10	TAT.	0603	Resistor
X2/X14/I X2/X14/0			100 22nF	1% 1/10° 50WVDC		0603	Resistor Ceramic capacito
X2/X14/0	CAPACI	JOK	Z Z 1 1 F	SUWVDC.	A / K	0003	ceramic capacito
x2/x14/t	J1 DG403	บาหกดนาก	unknown	SO16	Dual 9	PDT swite	ah
X2/X14/0 X2/X13/I			75	1% 1/10		0603	Resistor
X2/X13/I			75 75	1% 1/10		0603	Resistor
X2/X13/E			75 75	1% 1/10°		0603	Resistor
X2/X13/E			75 75	1% 1/10°		0603	Resistor
X2/X13/E			100	1% 1/10		0603	Resistor
X2/X13/0			22nF	50WVDC		0603	Ceramic capacito
r				-		_	1
X2/X13/E	R4 RESIST	'OR	100	1% 1/10	M	0603	Resistor
X2/X13/0			0.1uF	16WVDC		0603	Ceramic capacito
00/44							Thursday May 07, 0045

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r					. ago 0, 10
X2/X13/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X13/C1	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r X2/X13/U1	DG403 unknown	unknown	CO16 Dual CD	DT switc	h
X2/X13/01 X2/X12/R9	RESISTOR	75	1% 1/10W	0603	Resistor
X2/X12/R8	RESISTOR	75 75	1% 1/10W	0603	Resistor
X2/X12/R7	RESISTOR	75	1% 1/10W	0603	Resistor
X2/X12/R6	RESISTOR	75	1% 1/10W	0603	Resistor
X2/X12/R3	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X12/C3	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r x2/x12/p4	D II G I G III G II	100	1 0. 1 /1 OT.T	0.00	Doniehou
X2/X12/R4 X2/X12/C2	RESISTOR CAPACITOR	100 0.1uF	1% 1/10W 16WVDC X7R	0603 0603	Resistor Ceramic capacito
r	CAPACITOR	U.Iur	TOWVDC A/R	0003	ceramic capacito
X2/X12/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X12/C1	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r	50400	,	go16 p 1 gp		,
X2/X12/U1 X2/R12 RESISTOR		unknown 1% 1/10		DT switc Resisto	
X2/R12 RESISTOR X2/R11 RESISTOR		1% 1/10		Resisto	
X2/C7 CAPACITO		10WVDC			capacitor
X2/R10 RESISTOR		5% 0.15		Resisto	
X2/C6 CAPACITO		16WVDC			capacitor
X2/C32 CAPACITO		50WVDC			capacitor
X2/U3 MAX308C		unknown			
X2/C31 CAPACITO		50WVDC			capacitor
X2/U2 AD5328	unknown unknown	TSSOP16	Octal DAC		_
X2/X1/U1	DUAL_OPAMP	LT2078A		S08	unknown
X2/X1/R21	RESISTOR	1	1% 1/10W	0603	Resistor
X2/X1/R22	RESISTOR	4.99	1% 1/10W	0603	Resistor
X2/X1/R24	RESISTOR	49.9	1% 1/10W	0603	Resistor
X2/X1/R23	RESISTOR	49.9	1% 1/10W	0603	Resistor
X2/X1/C11   r	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
X2/X1/C12	CAPACITOR	0.1uF	50WVDC X7R	0805	Ceramic capacito
r X2/X1/C2	CAPACITOR	1.0uF	10WVDC X7R	0805	Ceramic capacito
r X2/X1/C13	CAPACITOR	3.3uF	25WVDC X7R	2225	Ceramic capacito
r X2/X1/C10	CAPACITOR	4.7uF	10WVDC X7R	1812	Ceramic capacito
r v2/v1/D20	DEGIGEOD	C O 41-	1 0. 1 /1 0 7.7	0602	Dogiator
X2/X1/R20 X2/X1/R10	RESISTOR RESISTOR	604k 604k	1% 1/10W 1% 1/10W	0603 0603	Resistor Resistor
X2/X1/K10 X2/X1/C1	CAPACITOR	0.22uF	10WVDC X7R	0603	Ceramic capacito
r		3.2242			112320 Oapa0100
X2/X1/R12	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X2/X1/Q2	LM195H unknown				Danish
X2/X1/R16	RESISTOR	4.99k	1% 1/10W	0603	Resistor
X2/X1/Q3 X2/X1/R2	PNP_TRANSISTOR RESISTOR	MMBT290	7A unknown 1% 1/10W	. UB 0603	unknown Resistor
X2/X1/R2 X2/X1/C6	CAPACITOR	301K 680pF	50WVDC NP0	0603	Ceramic capacito
r	CALACTION	JOOPL	DOMANC TALA	0003	ceramic capacito
x2/x1/R6	RESISTOR	4.99k	1% 1/10W	0603	Resistor
X2/X1/Q1	LM195H unknown				-
X2/X1/R17	RESISTOR	10k	1% 1/10W	0603	Resistor
X2/X1/R7	RESISTOR	10k	1% 1/10W	0603	Resistor
X2/X1/C5	CAPACITOR	680pF	50WVDC NP0	0603	Ceramic capacito

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r							
X2/X1/U2	DUAL_OPAMP	LM6142A	тм		N/A	S08	generic dual ope
rational amplif		шиот 1271.	L1·1		14/ 21	500	generic adar ope
X2/X1/C4	CAPACITOR	22nF	501	WVDC	X7R	0603	Ceramic capacito
r X2/X1/C3	CAPACITOR	22nF	501	WVDC	X7R	0603	Ceramic capacito
r   X2/X1/R15	RESISTOR	10k	1%	1/1	ЭW	0603	Resistor
X2/X1/R5	RESISTOR	10k		1/1		0603	Resistor
X2/X1/R11	RESISTOR	60.4k		1/10		0603	Resistor
X2/X1/R13	RESISTOR	75k		1/1		0603	Resistor
X2/X1/R14	RESISTOR	301k		1/1		0603	Resistor
X2/X1/R1	RESISTOR	54.9k		1/1		0603	Resistor
X2/X1/R1 X2/X1/R3	RESISTOR	54.9k		$\frac{1}{1}$		0603	Resistor
X2/X1/R3 X2/X1/R4	RESISTOR	301k		$\frac{1}{1}$		0603	Resistor
X2/X2/C2 r	CAPACITOR	0.1uF	Τ6	WVDC	X/R	0603	Ceramic capacito
X2/X2/C3	CAPACITOR	22nF	501	WVDC	X7R	0603	Ceramic capacito
X2/X2/C1	CAPACITOR	22nF	50	WVDC	X7R	0603	Ceramic capacito
r x2/x2/c7	CAPACITOR	1uF	251	WVDC	X7R	1812	Ceramic capacito
r x2/x2/C4	CAPACITOR	1uF	251	WVDC	X7R	1812	Ceramic capacito
r X2/X2/C6	CAPACITOR	1uF	251	WVDC	X7R	1812	Ceramic capacito
r X2/X2/C5	CAPACITOR	1uF	251	WVDC	X7R	1812	Ceramic capacito
r   X2/X2/R2	RESISTOR	3.74k	1 9	1/1	7 tv7	0603	Resistor
X2/X2/R2 X2/X2/R1	RESISTOR	3.74k		$\frac{1}{1}$		0603	Resistor
X2/X2/R1 X2/X2/R7	RESISTOR	3.74k		$\frac{1}{1}$		0603	Resistor
	RESISTOR	3.74k		$\frac{1}{1}$		0603	Resistor
X2/X2/R6				Τ/ Τ			
X2/X2/X2/Q1	PMOS_TRANSISTOR		JIN		unknown	10252AA	generic P channe
	r (enhancement ty		_		,		
X2/X2/X2/Q2   1 MOS transisto	NMOS_TRANSISTOR r (enhancement ty		N		unknown	TO252AA	generic N channe
X2/X2/X2/R6	RESISTOR	3.74k	1%	1/1	WC	0603	Resistor
X2/X2/X2/R5	RESISTOR	3.74k		1/1		0603	Resistor
X2/X2/X2/R4	RESISTOR	3.74k		1/1		0603	Resistor
X2/X2/X2/R3	RESISTOR	3.74k		1/1		0603	Resistor
X2/X2/X2/R7	RESISTOR	200		1/1		0603	Resistor
X2/X2/X2/R/ X2/X2/X2/Q4	NPN TRANSISTOR			-/ -·	unknown		unknown
X2/X2/X2/Q4 X2/X2/X2/Q3	PNP_TRANSISTOR	MMBT290			unknown		unknown
	<del></del>			<b>1</b> TAT			
X2/X2/X2/R2	RESISTOR	1		1W	2512	Resistor	
X2/X2/X2/R1	RESISTOR	1		1W	2512	Resistor	
X2/X2/X1/Q1	PMOS_TRANSISTOR		JΙΝ		unknown	10252AA	generic P channe
1 MOS transisto   X2/X2/X1/Q2	r (enhancement ty NMOS TRANSISTOR		Ŋ		unknown	T0252AA	generic N channe
	r (enhancement ty						
X2/X2/X1/R6	RESISTOR	3.74k	1%	1/1	WC	0603	Resistor
X2/X2/X1/R5	RESISTOR	3.74k		1/1		0603	Resistor
X2/X2/X1/R4	RESISTOR	3.74k		1/1		0603	Resistor
X2/X2/X1/R4 X2/X2/X1/R3	RESISTOR	3.74k		$\frac{1}{1}$		0603	Resistor
X2/X2/X1/R3 X2/X2/X1/R7	RESISTOR	200		$\frac{1}{1}$		0603	Resistor
X2/X2/X1/R/ X2/X2/X1/Q4	NPN_TRANSISTOR	MMBT222		<b>エ/エ</b> /	unknown		unknown
X2/X2/X1/Q4 X2/X2/X1/Q3	PNP_TRANSISTOR	MMBT290'			unknown		unknown
X2/X2/X1/Q3 X2/X2/X1/R2	_			1W	2512	Resisto	
X2/X2/X1/R2 X2/X2/X1/R1	RESISTOR RESISTOR	1		1W 1W	2512 2512	Resistor	
AZ/AZ/A1/R1	VESTSIOK		16	<b>⊥</b> ₩	~ J L ~		

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X2/X2/R3	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X2/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X2/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X2/U1		unknown		DT switc	
X2/X3/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r	C/11/1C1101C	0.141	100000 21710	0003	ceramic capacito
X2/X3/C3 r	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
x2/x3/C1 r	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
x2/x3/C7 r	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
x2/x3/C4 r	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
X2/X3/C6 r	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
X2/X3/C5 r	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
X2/X3/R2	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X2/X3/R1	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X2/X3/R7	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X2/X3/R6	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X2/X3/X2/Q1	PMOS_TRANSISTOR				generic P channe
~	r (enhancement ty		0	10202121	30110110 1 0110111110
X2/X3/X2/Q2	NMOS_TRANSISTOR		N unknown	TO252AA	generic N channe
	r (enhancement ty				3
X2/X3/X2/R6	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X2/X3/X2/R5	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X2/X3/X2/R4	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X2/X3/X2/R3	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X2/X3/X2/R7	RESISTOR	200	1% 1/10W	0603	Resistor
X2/X3/X2/Q4	NPN_TRANSISTOR	MMBT222	2A unknown	UB	unknown
X2/X3/X2/Q3	PNP_TRANSISTOR	MMBT290	7A unknown	UB	unknown
X2/X3/X2/R2	RESISTOR	1	1% 1W 2512	Resisto	r
X2/X3/X2/R1	RESISTOR	1	1% 1W 2512	Resisto:	r
X2/X3/X1/Q1	PMOS_TRANSISTOR	IRFR912	ON unknown	TO252AA	generic P channe
1 MOS transisto	r (enhancement ty	ype)			
X2/X3/X1/Q2	NMOS_TRANSISTOR r (enhancement ty	IRFR2201	N unknown	TO252AA	generic N channe
X2/X3/X1/R6	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X2/X3/X1/R5	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X2/X3/X1/R4	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X2/X3/X1/R3	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X2/X3/X1/R7	RESISTOR	200	1% 1/10W	0603	Resistor
X2/X3/X1/Q4	NPN_TRANSISTOR	MMBT222			unknown
X2/X3/X1/Q1 X2/X3/X1/Q3	PNP_TRANSISTOR	MMBT290			unknown
X2/X3/X1/R2	RESISTOR	1	1% 1W 2512	Resisto:	
X2/X3/X1/R1	RESISTOR	1	1% 1W 2512	Resisto	
X2/X3/R3	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X3/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X3/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X3/U1		unknown		DT switc	
X2/X4/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r X2/X4/C3	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r					_
x2/x4/C1 r	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
X2/X4/C7	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito

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r					0
x2/x4/C4 r	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
X2/X4/C6 r	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
X2/X4/C5 r	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
X2/X4/R2	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X2/X4/R1	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X2/X4/R7	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X2/X4/R6	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X2/X4/X2/Q1	PMOS_TRANSISTOR				generic P channe
	r (enhancement ty		oiv aimiiowii	102321111	generie i ename
X2/X4/X2/Q2	NMOS_TRANSISTOR		N unknown	TO 25 2 7 7	generic N channe
	r (enhancement ty		n unknown	10232AA	generic n channe
			19. 1/10ы	0602	Resistor
X2/X4/X2/R6	RESISTOR	3.74k 3.74k	1% 1/10W	0603	
X2/X4/X2/R5	RESISTOR		1% 1/10W	0603	Resistor
X2/X4/X2/R4	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X2/X4/X2/R3	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X2/X4/X2/R7	RESISTOR	200	1% 1/10W	0603	Resistor
X2/X4/X2/Q4	NPN_TRANSISTOR	MMBT222			unknown
X2/X4/X2/Q3	PNP_TRANSISTOR	MMBT290			unknown
X2/X4/X2/R2	RESISTOR	1		Resisto	
X2/X4/X2/R1	RESISTOR	1		Resistor	
X2/X4/X1/Q1	PMOS_TRANSISTOR		0N unknown	TO252AA	generic P channe
1 MOS transisto	r (enhancement ty	ype)			
X2/X4/X1/Q2	NMOS_TRANSISTOR	IRFR220	N unknown	TO252AA	generic N channe
1 MOS transisto	r (enhancement ty	ype)			
X2/X4/X1/R6	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X2/X4/X1/R5	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X2/X4/X1/R4	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X2/X4/X1/R3	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X2/X4/X1/R7	RESISTOR	200	1% 1/10W	0603	Resistor
X2/X4/X1/Q4	NPN_TRANSISTOR	MMBT222			unknown
X2/X4/X1/Q3	PNP TRANSISTOR	MMBT290			unknown
X2/X4/X1/R2	RESISTOR	1		Resistor	
X2/X4/X1/R1	RESISTOR	1		Resistor	
X2/X4/R3	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X4/R3 X2/X4/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X4/R5	RESISTOR	100	1% 1/10W 1% 1/10W	0603	Resistor
X2/X4/K5 X2/X4/U1		unknown			
X2/X4/01 X2/X10/C12	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
	CAPACIIUR	~ ~ 11L	JUMANC VIK	0003	Ceramic Capacito
r v2/v10/c11		0 0 m F	EOMADO VAD	0602	Compania compair
X2/X10/C11	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r v2/v10/p24		1.0	1 % 1 / 1 0 छ :	0603	Dogistor
X2/X10/R24	RESISTOR	10	1% 1/10W	0603	Resistor
X2/X10/R23	RESISTOR	10	1% 1/10W	0603	Resistor
X2/X10/C5	CAPACITOR	4.7uF	10WVDC X7R	1812	Ceramic capacito
r x2 (x10 /D22	DEGLOSS	C O 41	10 1/10**	0.603	Danis at
X2/X10/R22	RESISTOR	604k	1% 1/10W	0603	Resistor
X2/X10/R21	RESISTOR	604k	1% 1/10W	0603	Resistor
X2/X10/C10	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
r					
X2/X10/C9	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
r	G1 D1 GTTC-	0 1 -	16	0.600	
X2/X10/C4	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r					
X2/X10/R20	RESISTOR	10_	1% 1/10W	0603	Resistor
X2/X10/C8	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
00/44					I

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-		IIICI	docidonnitat		1 age 1/19
r vo/v10/D10	D II G I GIII O D	1.01-	10. 1 /1017	0.003	Dog i store
X2/X10/R18	RESISTOR	10k	1% 1/10W	0603	Resistor
X2/X10/Q6	NPN_TRANSISTOR	MMBT222			unknown
X2/X10/R19	RESISTOR	16.9	1% 1/10W	0603	Resistor
X2/X10/Q5	NPN_TRANSISTOR	MMBT222			unknown
X2/X10/R16	RESISTOR	20k	1% 1/10W	0603	Resistor
X2/X10/R17	RESISTOR	499	1% 1/10W	0603	Resistor
X2/X10/Q4	PNP_TRANSISTOR	MMBT290			unknown
X2/X10/C7	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r		- 1	10 1/10	0.500	
X2/X10/R13	RESISTOR	1k	1% 1/10W	0603	Resistor
X2/X10/R14	RESISTOR	32.4k	1% 1/10W	0603	Resistor
X2/X10/C6	CAPACITOR	4.7pF	100WVDC NP0	0603	Ceramic capacito
r x2/x10/D15	DEGLEROD	2011-	10 1 /1017	0.603	Danish
X2/X10/R15	RESISTOR	301k	1% 1/10W	0603	Resistor
X2/X10/R11	RESISTOR	10	1% 1/10W	0603	Resistor
X2/X10/C1	CAPACITOR	4.7pF	100WVDC NP0	0603	Ceramic capacito
r x0/x10/01	NIDNI MDANIGI CMCD	NANAD == 0 0 0	0.7	IID	
X2/X10/Q1	NPN_TRANSISTOR	MMBT222			unknown
X2/X10/R7	RESISTOR	499	1% 1/10W	0603	Resistor
X2/X10/R10	RESISTOR	49.9	1% 1/10W	0603	Resistor
X2/X10/U1	DUAL_OPAMP	LM6142A	IM N/A	S08	generic dual ope
rational amplif		1.01	10 1/10	0.500	
X2/X10/R8	RESISTOR	10k	1% 1/10W	0603	Resistor
X2/X10/R2	RESISTOR	26.7k	1% 1/10W	0603	Resistor
X2/X10/R1	RESISTOR	34.0k	1% 1/10W	0603	Resistor
X2/X10/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r	DEGEGEOR	11	10 1/10**	0.602	<b>5</b>
X2/X10/R3	RESISTOR	1k	1% 1/10W	0603	Resistor
X2/X10/R4	RESISTOR	32.4k	1% 1/10W	0603	Resistor
X2/X10/R5	RESISTOR	301k	1% 1/10W	0603	Resistor
X2/X10/R6	RESISTOR	20k	1% 1/10W	0603	Resistor
X2/X10/C3	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
r x2 (x10 /D0	DEGLEROD	16.0	10 1 /1017	0.603	Danish
X2/X10/R9	RESISTOR	16.9	1% 1/10W	0603	Resistor
X2/X10/Q3	PNP_TRANSISTOR	MMBT290			unknown
X2/X10/Q2	PNP_TRANSISTOR	MMBT290			unknown
X2/X9/R9	RESISTOR	75	1% 1/10W	0603	Resistor
X2/X9/R8	RESISTOR	75	1% 1/10W	0603	Resistor
X2/X9/R7	RESISTOR	75	1% 1/10W	0603	Resistor
X2/X9/R6	RESISTOR	75	1% 1/10W	0603	Resistor
X2/X9/R3	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X9/C3	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r	DEGLEROD	100	10 1 /1017	0.602	Danish
X2/X9/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X9/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r vo/vo/pr	DEGLOSO	100	10. 1 /10***	0.603	
X2/X9/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X9/C1	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r v2/v0/ii1	DC/1021	1120 less e	CO16 D1 CD1	OT ~	h
X2/X9/U1		unknown			
X2/X8/R9	RESISTOR	75 75	1% 1/10W	0603	Resistor
X2/X8/R8	RESISTOR	75 75	1% 1/10W	0603	Resistor
X2/X8/R7	RESISTOR	75 75	1% 1/10W	0603	Resistor
X2/X8/R6	RESISTOR	75 100	1% 1/10W	0603	Resistor
X2/X8/R3	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X8/C3	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r v2/v0/p4		100	19 1/10ti	0603	Resistor
X2/X8/R4	RESISTOR	T00	1% 1/10W	0003	Resistor 04/44

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X2/X8/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r vo/vo/pr	DHGTGMOD	100	1% 1/10W	0.00	Danishas
X2/X8/R5 X2/X8/C1	RESISTOR CAPACITOR	100 22nF	50WVDC X7R	0603 0603	Resistor Ceramic capacito
r	CAPACITOR	Z Z I I F	SOWVDC A/R	0003	Ceramic Capacito
X2/X8/U1	DG403 unknown	unknown	SO16 Dual SP	DT switc	h
X2/X7/R9	RESISTOR	75	1% 1/10W	0603	Resistor
X2/X7/R8	RESISTOR	75	1% 1/10W	0603	Resistor
X2/X7/R7	RESISTOR	75	1% 1/10W	0603	Resistor
X2/X7/R6	RESISTOR	75	1% 1/10W	0603	Resistor
X2/X7/R3	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X7/C3 r	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
x2/x7/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X7/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r					_
X2/X7/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X7/C1	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r   X2/X7/U1	DG403 unknown	unknown	SO16 Dual CD	DT switc	h
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 r	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
X2/X6/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X6/C2 r	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
X2/X6/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X6/C1 r	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
x2/x6/U1	DG403 unknown	unknown	SO16 Dual SP	DT switc	h
X2/X5/C12	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r   X2/X5/C11	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r					_
X2/X5/R24	RESISTOR	10	1% 1/10W	0603	Resistor
X2/X5/R23 X2/X5/C5	RESISTOR CAPACITOR	10 4.7uF	1% 1/10W 10WVDC X7R	0603 1812	Resistor Ceramic capacito
x2/x5/C5	CAPACITOR	4. /ur	TUWVDC A/R	1012	Ceramic Capacito
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 X7R	1812	Ceramic capacito
r   X2/X5/C9   r	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
X2/X5/C4	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r   X2/X5/R20	RESISTOR	10	1% 1/10W	0603	Resistor
X2/X5/C8 r	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
X2/X5/R18	RESISTOR	10k	1% 1/10W	0603	Resistor
X2/X5/Q6	NPN_TRANSISTOR	MMBT222			unknown
X2/X5/R19	RESISTOR	16.9	1% 1/10W	0603	Resistor
X2/X5/Q5	NPN_TRANSISTOR	MMBT222			unknown
X2/X5/R16	RESISTOR	20k	1% 1/10W	0603	Resistor
X2/X5/R17	RESISTOR	499	1% 1/10W	0603	Resistor

X2/X5/Q4	May 07, 15 12:48			Interf	ace.bon	n.txt		Page 9/19
X2/X5/R1		DNID TONNOT	STOP				IIR	
X2/X5/R13	X2/X5/C7		SIOR					Ceramic capacito
X2/X5/R14		RESISTOR		1k	1% 1/10	W	0603	Resistor
X2/X5/R5								
X2/X5/R15	X2/X5/C6							Ceramic capacito
X2/X5/C1	1 —	RESISTOR		301k	1% 1/10	W	0603	Resistor
X2/X5/C1								
X2/X5/Q1	X2/X5/C1							Ceramic capacito
X2/X5/R7		NPN TRANSI	STOR	MMBT2222	2A	unknown	UB	unknown
X2/X5/R10	~							
X2/X5/U1   DUAL_OPAMP								
X2/X5/R8   RESISTOR   10k   1% 1/10W   0603   Resistor   X2/X5/R2   RESISTOR   26.7k   1% 1/10W   0603   Resistor   X2/X5/R1   RESISTOR   34.0k   1% 1/10W   0603   Resistor   X2/X5/R2   CAPACITOR   0.1uF   16WVDC X7R   0603   Ceramic capacitor   X2/X5/R3   RESISTOR   1k   1% 1/10W   0603   Resistor   X2/X5/R4   RESISTOR   32.4k   1% 1/10W   0603   Resistor   X2/X5/R5   RESISTOR   30.1k   1% 1/10W   0603   Resistor   X2/X5/R5   RESISTOR   20k   1% 1/10W   0603   Resistor   X2/X5/R5   RESISTOR   20k   1% 1/10W   0603   Resistor   X2/X5/C3   CAPACITOR   1uF   25WVDC X7R   1812   Ceramic capacitor   X2/X5/Q3   PNP_TRANSISTOR   16.9   1% 1/10W   0603   Resistor   X2/X5/Q3   PNP_TRANSISTOR   MMBT2907A   unknown   UB   unknown   X2/X5/Q2   PNP_TRANSISTOR   MMBT2907A   unknown   UB   unknown   X2/X11/R9   RESISTOR   75   1% 1/10W   0603   Resistor   X2/X11/R6   RESISTOR   75   1% 1/10W   0603   Resistor   X2/X11/R6   RESISTOR   75   1% 1/10W   0603   Resistor   X2/X11/R3   RESISTOR   100   1% 1/10W   0603   Resistor   X2/X11/R4   RESISTOR   100   1% 1/10W   0603   Resistor   X2/X11/R4   RESISTOR   100   1% 1/10W   0603   Resistor   X2/X11/R5   RESISTOR   100   1% 1/10W   0603   Resistor   X2/X11/R5   RESISTOR   100   1% 1/10W   0603   Resistor   X2/X11/R5   RESISTOR   22nF   50WVDC   X7R   0603   Ceramic   Capacitor   X2/X11/C1   CAPACITOR   22nF   50WVDC   X7R   0603   Ceramic   Capacitor   X2/R9   RESISTOR   56.2k   1%   0603   Resistor   X2/R9   RESISTOR   56.2k   1%   0603   Resistor   X2/R9   RESISTOR   200k   1%   0603   Resistor   X2/R9   RESISTOR   200k		DUAL_OPAMP		LM6142A	IM	N/A	S08	generic dual ope
X2/X5/R2   RESISTOR   26.7k   1% 1/10W   0603   Resistor   X2/X5/R1   RESISTOR   34.0k   1% 1/10W   0603   Resistor   X2/X5/C2   CAPACITOR   0.1uF   16WVDC X7R   0603   Ceramic capacito   CAPACITOR   0.1uF   16WVDC X7R   0603   Ceramic capacito   CAPACITOR   0.1uF   16WVDC X7R   0603   Ceramic capacito   CAPACITOR   0.1uF   16WVDC X7R   0603   Resistor   X2/X5/R4   RESISTOR   32.4k   1% 1/10W   0603   Resistor   X2/X5/R5   RESISTOR   301k   1% 1/10W   0603   Resistor   X2/X5/R6   RESISTOR   20k   1% 1/10W   0603   Resistor   X2/X5/C3   CAPACITOR   1uF   25WVDC X7R   1812   Ceramic capacito   CAPACITOR   1uF   25WVDC X7R   1812   Ceramic capacito   CAPACITOR   1uF   25WVDC X7R   1812   Ceramic capacito   CAPACITOR   16.9   1% 1/10W   0603   Resistor   X2/X5/Q3   PNP_TRANSISTOR   MMBT2907A   unknown   UB   unknown   UB   unknown   MMBT2907A   Unknown   UB   Unk		ler, SO8						
X2/X5/R1								
X2/X5/C2								
X2/X5/R3								
X2/X5/R3		CAPACITOR		U.luF	TEMADC :	X'/R	0603	Ceramic capacito
X2/X5/R4   RESISTOR   32.4k   1% 1/10W   0603   Resistor   X2/X5/R5   RESISTOR   301k   1% 1/10W   0603   Resistor   X2/X5/R6   RESISTOR   20k   1% 1/10W   0603   Resistor   X2/X5/C3   CAPACITOR   1uF   25WVDC X7R   1812   Ceramic capacitor   X2/X5/R9   RESISTOR   16.9   1% 1/10W   0603   Resistor   X2/X5/Q3   PNP_TRANSISTOR   MMBT2907A   unknown   UB   unknown   X2/X5/Q2   PNP_TRANSISTOR   MMBT2907A   unknown   UB   unknown   X2/X11/R9   RESISTOR   75   1% 1/10W   0603   Resistor   X2/X11/R9   RESISTOR   75   1% 1/10W   0603   Resistor   X2/X11/R7   RESISTOR   75   1% 1/10W   0603   Resistor   X2/X11/R6   RESISTOR   75   1% 1/10W   0603   Resistor   X2/X11/R6   RESISTOR   75   1% 1/10W   0603   Resistor   X2/X11/R6   RESISTOR   75   1% 1/10W   0603   Resistor   X2/X11/R3   RESISTOR   100   1% 1/10W   0603   Resistor   X2/X11/C3   CAPACITOR   22nF   50WVDC   X7R   0603   Ceramic   Capacitor   X2/X11/R4   RESISTOR   100   1% 1/10W   0603   Resistor   X2/X11/R5   RESISTOR   100   1% 1/10W   0603   Resistor   X2/X11/C2   CAPACITOR   22nF   50WVDC   X7R   0603   Ceramic   Capacitor   X2/X11/C1   CAPACITOR   22nF   50WVDC   X7R   0603   Ceramic   Capacitor   X2/X11/U1   DG403   unknown   unknown   S016   Dual   SPDT   switch   X2/R9   RESISTOR   56.2k   1% 0603   Resistor   X2/R2   RESISTOR   200k   1% 0603   Resistor   X2/R2   RESISTOR   200k   1% 0603   Resistor   X2/R2   RESISTOR   200k   1% 0603   Resistor   X2/R8   RESISTOR   21.5   1% 1/10W   0603   Resistor   X2/C4   CAPACITOR   22nF   50WVDC   X7R   0603   Ceramic   Capacitor   X2/C5   CAPACITOR   22nF   50WVDC   X7R   0603   Ceramic   Ca		RESISTOR		1k	1% 1/10	W	0603	Resistor
X2/X5/R6	X2/X5/R4			32.4k	1% 1/10	W	0603	Resistor
X2/X5/C3	X2/X5/R5	RESISTOR		301k			0603	Resistor
T	X2/X5/R6	RESISTOR		20k	1% 1/10	W	0603	Resistor
X2/X5/R9		CAPACITOR		1uF	25WVDC	X7R	1812	Ceramic capacito
X2/X5/Q2	X2/X5/R9							
X2/X11/R9								
X2/X11/R8			STOR					
X2/X11/R7								
X2/X11/R6								
X2/X11/R3								
X2/X11/C3								
r								
X2/X11/C2		CAPACITOR		ZZIIF	SUWVDC .	A/K	0603	ceramic capacito
T	X2/X11/R4	RESISTOR					0603	
X2/X11/R5		CAPACITOR		0.1uF	16WVDC	X7R	0603	Ceramic capacito
X2/X11/C1		RESISTOR		100	1% 1/10	W	0603	Resistor
X2/X11/U1       DG403       unknown unknown S016       Dual SPDT switch         X2/R9       RESISTOR       604k       1%       0603       Resistor         X2/R1       RESISTOR       56.2k       1%       0603       Resistor         X2/R2       RESISTOR       200k       1%       0603       Resistor         X2/C4       CAPACITOR       10pF       100WVDC       NPO       0603       Ceramic capacitor         X2/R8       RESISTOR       21.5       1%       1/10W       0603       Resistor         X2/C5       CAPACITOR       22nF       50WVDC       X7R       0603       Ceramic capacitor	X2/X11/C1	CAPACITOR		22nF	50WVDC	X7R	0603	Ceramic capacito
X2/R9       RESISTOR       604k       1%       0603       Resistor         X2/R1       RESISTOR       56.2k       1%       0603       Resistor         X2/R2       RESISTOR       200k       1%       0603       Resistor         X2/C4       CAPACITOR       10pF       100WVDC       NPO       0603       Ceramic capacitor         X2/R8       RESISTOR       21.5       1%       1/10W       0603       Resistor         X2/C5       CAPACITOR       22nF       50WVDC       X7R       0603       Ceramic capacitor		חמות המות	known	unknown	5016	ותם ובוות	T gwi+al	h
X2/R1       RESISTOR       56.2k       1%       0603       Resistor         X2/R2       RESISTOR       200k       1%       0603       Resistor         X2/C4       CAPACITOR       10pF       100WVDC NPO       0603       Ceramic capacitor         X2/R8       RESISTOR       21.5       1% 1/10W       0603       Resistor         X2/C5       CAPACITOR       22nF       50WVDC X7R       0603       Ceramic capacitor								.1
X2/R2       RESISTOR       200k       1%       0603       Resistor         X2/C4       CAPACITOR       10pf       100WVDC NP0       0603       Ceramic capacitor         X2/R8       RESISTOR       21.5       1% 1/10W       0603       Resistor         X2/C5       CAPACITOR       22nF       50WVDC X7R       0603       Ceramic capacitor								
X2/C4       CAPACITOR       10pF       100WVDC NP0       0603       Ceramic capacitor         X2/R8       RESISTOR       21.5       1% 1/10W       0603       Resistor         X2/C5       CAPACITOR       22nF       50WVDC X7R       0603       Ceramic capacitor								
X2/R8								capacitor
X2/C5 CAPACITOR 22nF 50WVDC X7R 0603 Ceramic capacitor								
AZ/NO NEGISION TY.Y IN I/IUW UUUS KESISCOI	X2/R6 RESISTOR			1% 1/10V		0603	Resisto	
X2/C3 CAPACITOR 22nF 50WVDC X7R 0603 Ceramic capacitor								
X2/U1 DUAL_OPAMP LM6142AIM N/A SO8 generic dual operational	X2/U1 DUAL_OPA		6142A	IM	N/A	S08		
amplifier, SO8	amplifier, SO8							
X2/R7 RESISTOR 604k 1% 0603 Resistor								
X2/R3 RESISTOR 56.2k 1% 0603 Resistor								
X2/R4 RESISTOR 200k 1% 0603 Resistor								
X2/C1 CAPACITOR 10pF 100WVDC NP0 0603 Ceramic capacitor								
X2/R5	X2/R5 RESISTOR	21	. 5	1% 1/10V	V	0603	Resisto	r

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X2/C2 CAPACIT	FOR 22nF	50WVDC	X7R 0603	Ceramic	capacitor
X1/X14/R9	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X14/R8	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X14/R7	RESISTOR	75 75	1% 1/10W	0603	Resistor
X1/X14/R6	RESISTOR	75 75	1% 1/10W	0603	Resistor
X1/X14/R3	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X14/K3 X1/X14/C3	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r	CAPACITOR	22115	SOWVDC A/R	0003	Ceramic Capacito
X1/X14/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X14/C2 r	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
X1/X14/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X14/K3 X1/X14/C1	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
	CAPACITOR	Z Z I I F	SOWVDC X/R	0003	Ceramic Capacito
r v1/v1/////	DG403 unknown	unlenoum	CO16 Dual Ci	PDT switcl	
X1/X14/U1					
X1/X13/R9	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X13/R8	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X13/R7	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X13/R6	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X13/R3	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X13/C3 r	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
x1/x13/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X13/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r					_
X1/X13/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X13/C1	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r					
X1/X13/U1	DG403 unknown	unknown	SO16 Dual SI	PDT switcl	h
X1/X12/R9	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X12/R8	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X12/R7	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X12/R6	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X12/R3	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X12/C3	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r					_
X1/X12/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X12/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r   X1/X12/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X12/C1 r	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
X1/X12/U1	DG403 unknown	unknown	S016 Dual SI	PDT switch	h
X1/R12 RESISTO		1% 1/10		Resisto	
X1/R11 RESISTO		1% 1/10		Resisto	
X1/C7 CAPACIT		10WVDC			capacitor
X1/R10 RESISTO		5% 0.15		Resisto	
X1/C6 CAPACIT		16WVDC			capacitor
X1/C32 CAPACIT		50WVDC			capacitor
X1/U3 MAX3080				t analog i	
X1/C31 CAPACIT		50WVDC		ceramic	capacitor
X1/U2 AD5328	unknown unknown			~~~	
X1/X1/U1	DUAL_OPAMP	LT2078A		S08	unknown
X1/X1/R21	RESISTOR	1	1% 1/10W	0603	Resistor
X1/X1/R22	RESISTOR	4.99	1% 1/10W	0603	Resistor
X1/X1/R24	RESISTOR	49.9	1% 1/10W	0603	Resistor
X1/X1/R23	RESISTOR	49.9	1% 1/10W	0603	Resistor
X1/X1/C11	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r					-
04/44					

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X1/X1/C12	CAPACITOR	0.1uF	50WVDC X7R	0805	Ceramic capacito
r   X1/X1/C2   r	CAPACITOR	1.0uF	10WVDC X7R	0805	Ceramic capacito
X1/X1/C13	CAPACITOR	3.3uF	25WVDC X7R	2225	Ceramic capacito
X1/X1/C10 r	CAPACITOR	4.7uF	10WVDC X7R	1812	Ceramic capacito
X1/X1/R20	RESISTOR	604k	1% 1/10W	0603	Resistor
X1/X1/R10 X1/X1/C1	RESISTOR CAPACITOR	604k 0.22uF	1% 1/10W 10WVDC X7R	0603 0603	Resistor Ceramic capacito
r	CAPACITOR	0.22ur	TOWVDC X/K	0003	Ceramic Capacito
X1/X1/R12	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X1/X1/Q2 X1/X1/R16	LM195H unknown RESISTOR	unknown 4.99k	TO39 unknown 1% 1/10W	0603	Resistor
X1/X1/Q3	PNP_TRANSISTOR	MMBT290			unknown
X1/X1/R2	RESISTOR	301k	1% 1/10W	0603	Resistor
X1/X1/C6	CAPACITOR	680pF	50WVDC NP0	0603	Ceramic capacito
r   X1/X1/R6	RESISTOR	4.99k	1% 1/10W	0603	Resistor
X1/X1/R6 X1/X1/Q1	LM195H unknown			0003	Resistor
X1/X1/R17	RESISTOR	10k	1% 1/10W	0603	Resistor
X1/X1/R7	RESISTOR	10k	1% 1/10W	0603	Resistor
X1/X1/C5	CAPACITOR	680pF	50WVDC NP0	0603	Ceramic capacito
r X1/X1/U2 rational amplif	DUAL_OPAMP	LM6142A	IM N/A	S08	generic dual ope
X1/X1/C4	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
X1/X1/C3 r	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
X1/X1/R15	RESISTOR	10k	1% 1/10W	0603	Resistor
X1/X1/R5	RESISTOR	10k	1% 1/10W	0603	Resistor
X1/X1/R11	RESISTOR	60.4k	1% 1/10W	0603	Resistor
X1/X1/R13	RESISTOR	75k	1% 1/10W	0603	Resistor
X1/X1/R14	RESISTOR	301k	1% 1/10W	0603	Resistor
X1/X1/R1	RESISTOR	54.9k	1% 1/10W	0603	Resistor
X1/X1/R3	RESISTOR	54.9k	1% 1/10W	0603	Resistor
X1/X1/R4	RESISTOR	301k	1% 1/10W	0603	Resistor
X1/X2/C2   r	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
X1/X2/C3 r	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
X1/X2/C1 r	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
X1/X2/C7	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
X1/X2/C4 r	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
X1/X2/C6 r	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
X1/X2/C5 r	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
X1/X2/R2	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X1/X2/R1	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X1/X2/R7	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X1/X2/R6	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X1/X2/X2/Q1	PMOS_TRANSISTOR		0N unknown	TO252AA	generic P channe
1 MOS transisto	r (enhancement ty	ype)			

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X1/X2/X2/Q2	NMOS TRANSISTOR	TRFR2201	л 		unknown	TO252AA	generic N channe
	r (enhancement ty	vne)	. •		dillill Wil	10232111	generic iv ename
X1/X2/X2/R6	RESISTOR		1 %	1/10	) W	0603	Resistor
X1/X2/X2/R5	RESISTOR	3.74k				0603	Resistor
X1/X2/X2/R3 X1/X2/X2/R4		3.74k				0603	Resistor
	RESISTOR			1/10		0603	Resistor
X1/X2/X2/R3							
X1/X2/X2/R7				1/10		0603	Resistor
X1/X2/X2/Q4	NPN_TRANSISTOR				unknown		unknown
X1/X2/X2/Q3	PNP_TRANSISTOR	MMBT290		<b>a</b>	unknown		unknown
X1/X2/X2/R2	RESISTOR	1		1W	2512	Resistor	
X1/X2/X2/R1	RESISTOR	1		1W	2512	Resistor	
X1/X2/X1/Q1	PMOS_TRANSISTOR		JN		unknown	TO252AA	generic P channe
	r (enhancement ty						
X1/X2/X1/Q2	NMOS_TRANSISTOR		N		unknown	TO252AA	generic N channe
	r (enhancement ty						
X1/X2/X1/R6	RESISTOR				) W	0603	Resistor
X1/X2/X1/R5	RESISTOR			1/10		0603	Resistor
X1/X2/X1/R4	RESISTOR	3.74k	1%	1/10	) W	0603	Resistor
X1/X2/X1/R3	RESISTOR	3.74k	1%	1/10	) W	0603	Resistor
X1/X2/X1/R7	RESISTOR	200	1%	1/10	) W	0603	Resistor
X1/X2/X1/Q4	NPN_TRANSISTOR	MMBT2222	2A		unknown	UB	unknown
X1/X2/X1/Q3	PNP_TRANSISTOR	MMBT290			unknown	UB	unknown
X1/X2/X1/R2	RESISTOR	1			2512	Resistor	
X1/X2/X1/R1	RESISTOR	1			2512	Resistor	
X1/X2/R3	RESISTOR	100		1/10		0603	Resistor
X1/X2/R4	RESISTOR	100		1/10		0603	
X1/X2/R5	RESISTOR	100		1/10		0603 0603	Resistor
X1/X2/U1	DG403 unknown					OT switch	
X1/X2/01 X1/X3/C2	CAPACITOR	0.1uF			X7R	0603	Ceramic capacito
r	CAFACIION	o.iur	101	VVDC	2710	0003	Ceramic Capacito
X1/X3/C3	CAPACITOR	22nF	501	WVDC	X7R	0603	Ceramic capacito
r							
X1/X3/C1	CAPACITOR	22nF	501	WVDC	X7R	0603	Ceramic capacito
r							-
X1/X3/C7	CAPACITOR	1uF	251	WVDC	X7R	1812	Ceramic capacito
r							_
X1/X3/C4	CAPACITOR	1uF	251	WVDC	X7R	1812	Ceramic capacito
r							_
X1/X3/C6	CAPACITOR	1uF	251	WVDC	X7R	1812	Ceramic capacito
r							_
X1/X3/C5	CAPACITOR	1uF	251	WVDC	X7R	1812	Ceramic capacito
r							
X1/X3/R2	RESISTOR	3.74k	1%	1/10	) W	0603	Resistor
X1/X3/R1	RESISTOR	3.74k		1/10		0603	Resistor
X1/X3/R7	RESISTOR	3.74k		1/10		0603	Resistor
X1/X3/R6	RESISTOR	3.74k		1/10		0603	Resistor
X1/X3/X2/Q1	PMOS_TRANSISTOR						generic P channe
	r (enhancement ty						_
X1/X3/X2/Q2	NMOS_TRANSISTOR		N		unknown	TO252AA	generic N channe
	r (enhancement ty						
X1/X3/X2/R6	RESISTOR	3.74k	1%	1/10	) W	0603	Resistor
X1/X3/X2/R5	RESISTOR	3.74k		1/10		0603	Resistor
X1/X3/X2/R4	RESISTOR	3.74k		1/10		0603	Resistor
X1/X3/X2/R3	RESISTOR	3.74k		1/10		0603	Resistor
X1/X3/X2/R3 X1/X3/X2/R7	RESISTOR	200		1/10		0603	Resistor
X1/X3/X2/Q4	NPN_TRANSISTOR	MMBT2222		_ / _ C	unknown		unknown
X1/X3/X2/Q4 X1/X3/X2/Q3	PNP_TRANSISTOR	MMBT290			unknown		unknown
X1/X3/X2/Q3 X1/X3/X2/R2	RESISTOR	1		1W	2512	Resisto	
X1/X3/X2/R2 X1/X3/X2/R1	RESISTOR	1		1W	2512	Resistor	
221/22/22/101	TELETET OIL	_	Τ.0	- VV	2712	TCD TCC)	_

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X1/X3/X1/Q1	PMOS_TRANSISTOR	IRFR9120	ON	unknown	TO252AA	generic P channe
	r (enhancement ty					J ====== = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0
X1/X3/X1/Q2	NMOS_TRANSISTOR		N	unknown	TO252AA	generic N channe
	r (enhancement ty					3
X1/X3/X1/R6	RESISTOR	3.74k	1% 1/10	M	0603	Resistor
X1/X3/X1/R5	RESISTOR	3.74k	1% 1/10	M	0603	Resistor
X1/X3/X1/R4	RESISTOR	3.74k	1% 1/10	M	0603	Resistor
X1/X3/X1/R3	RESISTOR	3.74k	1% 1/10	M	0603	Resistor
X1/X3/X1/R7	RESISTOR	200	1% 1/10	M	0603	Resistor
X1/X3/X1/Q4	NPN_TRANSISTOR	MMBT2222		unknown		unknown
X1/X3/X1/Q3	PNP_TRANSISTOR	MMBT290		unknown		unknown
X1/X3/X1/R2	RESISTOR	1	1% 1W	2512	Resistor	
X1/X3/X1/R1	RESISTOR	1	1% 1W	2512	Resistor	
X1/X3/R3	RESISTOR	100	1% 1/10		0603	Resistor
X1/X3/R4	RESISTOR	100	1% 1/10		0603	Resistor
X1/X3/R5	RESISTOR	100	1% 1/10		0603	Resistor
X1/X3/U1		unknown			OT switch	
X1/X4/C2	CAPACITOR	0.1uF	16WVDC	x/R	0603	Ceramic capacito
r X1/X4/C3	CAPACITOR	22nF	50WVDC	x7R	0603	Ceramic capacito
r						
X1/X4/C1 r	CAPACITOR	22nF	50WVDC	X7R	0603	Ceramic capacito
X1/X4/C7	CAPACITOR	1uF	25WVDC	X7R	1812	Ceramic capacito
X1/X4/C4 r	CAPACITOR	1uF	25WVDC	X7R	1812	Ceramic capacito
X1/X4/C6 r	CAPACITOR	1uF	25WVDC	X7R	1812	Ceramic capacito
X1/X4/C5 r	CAPACITOR	1uF	25WVDC	X7R	1812	Ceramic capacito
X1/X4/R2	RESISTOR	3.74k	1% 1/10	M	0603	Resistor
X1/X4/R1	RESISTOR	3.74k	1% 1/10	M	0603	Resistor
X1/X4/R7	RESISTOR	3.74k	1% 1/10	M	0603	Resistor
X1/X4/R6	RESISTOR	3.74k	1% 1/10	M	0603	Resistor
X1/X4/X2/Q1	PMOS_TRANSISTOR		NC	unknown	TO252AA	generic P channe
	r (enhancement ty					
X1/X4/X2/Q2	NMOS_TRANSISTOR		Ŋ	unknown	TO252AA	generic N channe
	r (enhancement ty					
X1/X4/X2/R6	RESISTOR	3.74k	1% 1/10		0603	Resistor
X1/X4/X2/R5	RESISTOR	3.74k	1% 1/10		0603	Resistor
X1/X4/X2/R4	RESISTOR	3.74k	1% 1/10		0603	Resistor
X1/X4/X2/R3	RESISTOR	3.74k	1% 1/10		0603	Resistor
X1/X4/X2/R7	RESISTOR	200	1% 1/10T		0603	Resistor
X1/X4/X2/Q4	<del></del>	MMBT2222		unknown		unknown
X1/X4/X2/Q3	PNP_TRANSISTOR	MMBT290		unknown		unknown
X1/X4/X2/R2	RESISTOR	1 1		2512	Resistor Resistor	
X1/X4/X2/R1 X1/X4/X1/Q1	RESISTOR		1% 1W	2512		
	PMOS_TRANSISTOR (enhancement ty		) TA	unviiowu	IUZSZAA	generic P channe
X1/X4/X1/Q2	NMOS_TRANSISTOR		ΝĪ	unknown	TO25227	generic N channe
	r (enhancement ty		.▼	WIII/III WII	10232AA	SCHOLLO IN CHAINIE
X1/X4/X1/R6	RESISTOR	3.74k	1% 1/10	M	0603	Resistor
X1/X4/X1/R5	RESISTOR	3.74k	1% 1/10		0603	Resistor
X1/X4/X1/R4	RESISTOR	3.74k	1% 1/10		0603	Resistor
X1/X4/X1/R3	RESISTOR	3.74k	1% 1/10		0603	Resistor
X1/X4/X1/R7	RESISTOR	200	1% 1/10		0603	Resistor
X1/X4/X1/Q4	NPN_TRANSISTOR	MMBT2222		unknown		unknown
X1/X4/X1/Q3	PNP_TRANSISTOR	MMBT290		unknown		unknown

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X1/X4/X1/R2	RESISTOR	1	1% 1W 2512	Resisto	r
X1/X4/X1/R1	RESISTOR	1	1% 1W 2512	Resisto	
X1/X4/R3	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X4/R4 X1/X4/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X4/R4 X1/X4/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X4/K5 X1/X4/U1		unknown		OT switc	
				0603	
X1/X10/C12  r	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
X1/X10/C11 r	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
X1/X10/R24	RESISTOR	10	1% 1/10W	0603	Resistor
X1/X10/R23	RESISTOR	10	1% 1/10W	0603	Resistor
X1/X10/C5 r	CAPACITOR	4.7uF	10WVDC X7R	1812	Ceramic capacito
X1/X10/R22	RESISTOR	604k	1% 1/10W	0603	Resistor
X1/X10/R21	RESISTOR	604k	1% 1/10W	0603	Resistor
X1/X10/C10	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
r					_
X1/X10/C9 r	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
X1/X10/C4 r	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
X1/X10/R20	RESISTOR	10	1% 1/10W	0603	Resistor
X1/X10/C8	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
X1/X10/R18	RESISTOR	10k	1% 1/10W	0603	Resistor
X1/X10/Q6	NPN_TRANSISTOR	MMBT222			unknown
X1/X10/Q0 X1/X10/R19	RESISTOR	16.9	1% 1/10W	0603	Resistor
X1/X10/Q5	NPN_TRANSISTOR	MMBT222			unknown
X1/X10/Q5 X1/X10/R16	RESISTOR	20k	1% 1/10W	0603	Resistor
X1/X10/R10 X1/X10/R17	RESISTOR	499	1% 1/10W	0603	Resistor
X1/X10/R1/ X1/X10/Q4		MMBT290'			unknown
	PNP_TRANSISTOR				
X1/X10/C7   r	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
X1/X10/R13	RESISTOR	1k	1% 1/10W	0603	Resistor
X1/X10/R14	RESISTOR	32.4k	1% 1/10W	0603	Resistor
X1/X10/C6 r	CAPACITOR	4.7pF	100WVDC NP0	0603	Ceramic capacito
X1/X10/R15	RESISTOR	301k	1% 1/10W	0603	Resistor
X1/X10/R11	RESISTOR	10	1% 1/10W	0603	Resistor
X1/X10/C1 r	CAPACITOR	4.7pF	100WVDC NP0	0603	Ceramic capacito
x1/x10/Q1	NPN TRANSISTOR	MMBT222	2A unknown	UB	unknown
X1/X10/Q1 X1/X10/R7	RESISTOR	499	1% 1/10W	0603	Resistor
X1/X10/R10 X1/X10/R10	RESISTOR	49.9	1% 1/10W	0603	Resistor
X1/X10/K10 X1/X10/U1	DUAL_OPAMP	LM6142A		SO8	generic dual ope
rational amplif		LINDITZA.	TI IN/ FI	500	action to dual obe
X1/X10/R8	RESISTOR	10k	1% 1/10W	0603	Resistor
X1/X10/R6 X1/X10/R2	RESISTOR	26.7k	1% 1/10W 1% 1/10W	0603	Resistor
		26.7k 34.0k	1% 1/10W 1% 1/10W	0603	Resistor
X1/X10/R1	RESISTOR				
X1/X10/C2 r	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
X1/X10/R3	RESISTOR	1k	1% 1/10W	0603	Resistor
X1/X10/R4	RESISTOR	32.4k	1% 1/10W	0603	Resistor
X1/X10/R5	RESISTOR	301k	1% 1/10W	0603	Resistor
X1/X10/R6	RESISTOR	20k	1% 1/10W	0603	Resistor
X1/X10/C3	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
r X1/X10/R9	RESISTOR	16.9	1% 1/10W	0603	Resistor

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X1/X10/Q3	PNP_TRANSISTOR	MMBT290	7A unkno	own UB	unknown
X1/X10/Q2	PNP_TRANSISTOR	MMBT290		own UB	unknown
X1/X9/R9	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X9/R8	RESISTOR	75 75	1% 1/10W	0603	Resistor
X1/X9/R0 X1/X9/R7	RESISTOR	75 75	1% 1/10W 1% 1/10W	0603	Resistor
X1/X9/R6	RESISTOR	75 75	1% 1/10W 1% 1/10W	0603	Resistor
			1% 1/10W 1% 1/10W	0603	
X1/X9/R3	RESISTOR	100			Resistor
X1/X9/C3 r	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
X1/X9/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X9/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r X1/X9/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X9/C1	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r					_
X1/X9/U1	DG403 unknown	unknown	SO16 Dual	SPDT switch	h
X1/X8/R9	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X8/R8	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X8/R7	RESISTOR	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	22nF	50WVDC X7R	0603	Ceramic capacito
r					
X1/X8/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X8/C2 r	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
X1/X8/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X8/C1	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r					
X1/X8/U1	DG403 unknown	unknown	SO16 Dual	SPDT switc	eh .
X1/X7/R9	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X7/R8	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X7/R7	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X7/R6	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X7/R3	RESISTOR	100	1% 1/10W	0603	Resistor
x1/x7/c3	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r					ccramic capacito
X1/X7/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X7/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r   X1/X7/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X7/K3 X1/X7/C1	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r	CAFACTION	2211F	JUWVDC A/R	0003	Coramic Capacito
x1/x7/U1	DG403 unknown	unknown	SO16 Dual	SPDT switc	h
X1/X7/01 X1/X6/R9	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X6/R9 X1/X6/R8	RESISTOR	75 75	1% 1/10W	0603	Resistor
X1/X6/R7	RESISTOR	75 75	1% 1/10W	0603	Resistor
X1/X6/R6	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X6/R3	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X6/C3 r	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
x1/x6/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X6/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r					_
X1/X6/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X6/C1	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
Y / / / / / / / / / / / / / / / / / / /	DQ402 1	1	0016 5 3	anne - ''	.1-
X1/X6/U1		unknown		SPDT switch	
X1/X5/C12	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito

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r					
X1/X5/C11 r	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
X1/X5/R24	RESISTOR	10	1% 1/10W	0603	Resistor
X1/X5/R23	RESISTOR	10	1% 1/10W	0603	Resistor
X1/X5/C5	CAPACITOR	4.7uF	10WVDC X7R	1812	Ceramic capacito
r					
X1/X5/R22	RESISTOR	604k	1% 1/10W	0603	Resistor
X1/X5/R21 X1/X5/C10	RESISTOR CAPACITOR	604k 1uF	1% 1/10W 25WVDC X7R	0603 1812	Resistor Ceramic capacito
r	CAPACITOR	lur	ZOWVDC A/R	1012	Ceramic Capacito
X1/X5/C9	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
r   X1/X5/C4	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r	0111101101	0.141	1011120 11711	0003	ceramic capacites
X1/X5/R20	RESISTOR	10	1% 1/10W	0603	Resistor
X1/X5/C8	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
r   X1/X5/R18	RESISTOR	10k	1% 1/10W	0603	Resistor
X1/X5/R16 X1/X5/Q6	NPN_TRANSISTOR	MMBT222			unknown
X1/X5/R19	RESISTOR	16.9	1% 1/10W	0603	Resistor
X1/X5/Q5	NPN_TRANSISTOR	MMBT222	•		unknown
X1/X5/R16	RESISTOR	20k	1% 1/10W	0603	Resistor
X1/X5/R17	RESISTOR	499	1% 1/10W	0603	Resistor
X1/X5/Q4	PNP_TRANSISTOR				unknown
X1/X5/C7 r	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
X1/X5/R13	RESISTOR	1k	1% 1/10W	0603	Resistor
X1/X5/R14	RESISTOR	32.4k	1% 1/10W	0603	Resistor
X1/X5/C6	CAPACITOR	4.7pF	100WVDC NP0	0603	Ceramic capacito
Y1 /VE /D1E	DECTOROD	301k	1% 1/10W	0603	Resistor
X1/X5/R15 X1/X5/R11	RESISTOR RESISTOR	301K 10	1% 1/10W 1% 1/10W	0603	Resistor
X1/X5/C1	CAPACITOR	4.7pF	100WVDC NP0	0603	Ceramic capacito
r	CHILICITOR	1. / 1.	TOOMVEC IVI	0005	ceramic capacito
X1/X5/Q1	NPN_TRANSISTOR				unknown
X1/X5/R7	RESISTOR			0603	Resistor
X1/X5/R10	RESISTOR	49.9	1% 1/10W	0603	Resistor
X1/X5/U1	DUAL_OPAMP	LM6142A	IM N/A	S08	generic dual ope
rational amplif X1/X5/R8	RESISTOR	10k	1% 1/10W	0603	Resistor
X1/X5/R6 X1/X5/R2	RESISTOR	26.7k	1% 1/10W 1% 1/10W	0603	Resistor
X1/X5/R2 X1/X5/R1	RESISTOR	34.0k	1% 1/10W	0603	Resistor
X1/X5/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r					_
X1/X5/R3	RESISTOR	1k	1% 1/10W	0603	Resistor
X1/X5/R4	RESISTOR	32.4k	1% 1/10W	0603	Resistor
X1/X5/R5	RESISTOR	301k	1% 1/10W	0603	Resistor
X1/X5/R6	RESISTOR	20k	1% 1/10W	0603	Resistor
X1/X5/C3	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
r   X1/X5/R9	RESISTOR	16.9	1% 1/10W	0603	Resistor
X1/X5/Q3	PNP_TRANSISTOR	MMBT290			unknown
X1/X5/Q2	PNP_TRANSISTOR	MMBT290			unknown
X1/X11/R9	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X11/R8	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X11/R7	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X11/R6	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X11/R3	RESISTOR	100	1% 1/10W	0603	Resistor

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x1/x11/	C3	CAPACIT	OR	22nF	50WVDC	x7r	0603	Ceramic capacito
r   X1/X11/	R 4	RESISTO	R	100	1% 1/10	TAT	0603	Resistor
X1/X11/		CAPACIT		0.1uF	16WVDC		0603	Ceramic capacito
r								
X1/X11/		RESISTO		100	1% 1/10		0603	Resistor
x1/x11/	CI	CAPACIT	OR	22nF	50WVDC	A/R	0603	Ceramic capacito
X1/X11/	U1	DG403	unknown	unknowr	n S016	Dual SP	DT switc	h
X1/R9	RESISTOR		604k	1%	0603	Resisto		
X1/R1	RESISTOR		56.2k	1%	0603	Resisto		
X1/R2 X1/C4	RESISTOR CAPACITO		200k 10pF	1% 100WVD0	0603	Resisto 0603		capacitor
X1/C4 X1/R8	RESISTOR		21.5	1% 1/10		0603	Resisto	
X1/C5	CAPACITO		22nF	50WVDC		0603		capacitor
X1/R6	RESISTOR		49.9	1% 1/10		0603	Resisto:	
X1/C3	CAPACITO		22nF	50WVDC		0603		capacitor
X1/U1	DUAL_OPA	MP	LM6142A	ΙM	N/A	S08	generic	dual operational
amplii  X1/R7	ier, SO8 RESISTOR	1	604k	1%	0603	Resisto	r	
X1/R3	RESISTOR		56.2k	1%	0603	Resisto		
X1/R4	RESISTOR		200k	1%	0603	Resisto	r	
X1/C1	CAPACITO		10pF	100WVDC		0603		capacitor
X1/R5	RESISTOR		21.5	1% 1/10		0603	Resisto	
X1/C2 C48	CAPACITO POLARIZE		22nF	50WVDC 47uF	15WVDC	0603 2711		capacitor m capacitor
C47	CAPACITO		4.7uF	10WVDC		1812		capacitor
C46	CAPACITO		1uF	10WVDC		0805		capacitor
C45	CAPACITO	R	0.1uF	16WVDC		0603	Ceramic	capacitor
C44	CAPACITO		0.1uF	16WVDC		0603		capacitor
C43	CAPACITO		0.1uF	16WVDC		0603		capacitor
C42 C41	CAPACITO CAPACITO		0.1uF 4.7uF	10WVDC		0603 1812		capacitor capacitor
C41	CAPACITO		4.7uF	10WVDC		1812		capacitor
C39	CAPACITO		1uF	10WVDC		0805		capacitor
C38	CAPACITO		0.1uF	16WVDC		0603		capacitor
C37	CAPACITO		0.1uF	16WVDC		0603		capacitor
C36 C35	CAPACITO CAPACITO		0.1uF 0.1uF	16WVDC 16WVDC		0603 0603		capacitor capacitor
C34	CAPACITO		4.7uF	10WVDC		1812		capacitor
C33	POLARIZE			47uF	15WVDC	2711		m capacitor
C32	CAPACITO	R .	4.7uF	10WVDC	X7R	1812		capacitor
C31	CAPACITO		1uF	10WVDC		0805		capacitor
C30 C29	CAPACITO		0.1uF	16WVDC		0603		capacitor
C29	CAPACITO CAPACITO		0.1uF 0.1uF	16WVDC		0603 0603		capacitor capacitor
C27	CAPACITO		0.1uF	16WVDC		0603		capacitor
C26	CAPACITO		4.7uF	10WVDC		1812		capacitor
C25	CAPACITO		4.7uF	10WVDC		1812		capacitor
C24	CAPACITO		luF	10WVDC		0805		capacitor
C23 C22	CAPACITO CAPACITO		0.1uF 0.1uF	16WVDC 16WVDC		0603 0603		capacitor capacitor
C22	CAPACITO		0.1uF 0.1uF	16WVDC		0603		capacitor
C20	CAPACITO		0.1uF	16WVDC		0603		capacitor
C19	POLARIZE	D_CAPAC	ITOR	220uF	6WVDC	2915	Tantalu	m capacitor
C18	CAPACITO		4.7uF	10WVDC		1812	Ceramic	capacitor
C17	CAPACITO		1uF	10WVDC		0805		capacitor
C16 C15	CAPACITO POLARIZE		0.1uF	16WVDC 220uF	X'/R 6WVDC	0603 2915		capacitor m capacitor
C13	POLARIZE	D_CAPAC	TIOK	ZZUUF	OWVDC	49±3	ıantalul	m capacitor

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C14	CAPACITOR	1uF	10WVDC X7R	0805	Ceramic capacitor
C13	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
C12	CAPACITOR	4.7uF	10WVDC X7R	1812	Ceramic capacitor
C11	CAPACITOR	4.7uF	10WVDC X7R	1812	Ceramic capacitor
C10	CAPACITOR	1uF	10WVDC X7R	0805	Ceramic capacitor
C59	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
C58	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
C57	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
C56	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
C55	POLARIZED_CAPAC	TOR	220uF 6WVDC	2915	Tantalum capacitor
C54	POLARIZED_CAPAC		47uF 15WVDC	2711	Tantalum capacitor
C53	CAPACITOR	4.7uF	10WVDC X7R	1812	Ceramic capacitor
C52	CAPACITOR	1uF	10WVDC X7R	0805	Ceramic capacitor
C51	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
R67	RESISTOR	20	1% 1/10W	0603	Resistor
R68	RESISTOR	62	5% 0.15W	0805	Resistor
R62	RESISTOR	3.74k	1% 1/10W	0603	Resistor
U1	MAX308CSE+		unknown S016		analog mux
C84	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacitor
R65	RESISTOR	121k	1% 0603	Resisto	
R66	RESISTOR	121k	1% 0603	Resisto	
R63	RESISTOR	121k	1% 0603	Resisto	r
R64	RESISTOR	121k	1% 0603	Resisto	r
C68	CAPACITOR	4.7uF	10WVDC X7R	1812	Ceramic capacitor
C73	CAPACITOR	10nF	50WVDC X7R	0603	Ceramic capacitor
C77	CAPACITOR	1uF	10WVDC X7R	0805	Ceramic capacitor
C74	CAPACITOR	10nF	50WVDC X7R	0603	Ceramic capacitor
R70	RESISTOR	750	1% 1/10W	0603	Resistor
R69	RESISTOR	750	1% 1/10W	0603	Resistor
C75	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
C76	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
U2	AD7984BRMZ		unknown MSOP10	ADC	
C94	CAPACITOR	10pF	100WVDC NP0	0603	Ceramic capacitor
R59	RESISTOR	604k	1% 0603	Resisto	
R58	RESISTOR	604k	1% 0603	Resisto	
R57	RESISTOR	604k	1% 0603	Resisto	
R56	RESISTOR	604k	1% 0603	Resisto	
R55	RESISTOR	604k	1% 0603	Resisto	
R54	RESISTOR	604k	1% 0603	Resisto	
R53	RESISTOR	604k	1% 0603	Resisto	
R52	RESISTOR	24.9k	1% 0603	Resisto	
C70	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacitor
R60	RESISTOR	3.74k	1% 1/10W	0603	Resistor
R61	RESISTOR	3.74k	1% 1/10W	0603	Resistor
U3 C71	MAX308CSE+		unknown SO16 50WVDC X7R		analog mux
	CAPACITOR	22nF		0603	Ceramic capacitor
R5 U6	RESISTOR	121k	1% 0603	Resisto	
U6 U5	DUAL_OPAMP	LT2078A		SO8 SO8	unknown unknown
C63	DUAL_OPAMP CAPACITOR	0.1uF	IS8 N/A 16WVDC X7R	0603	unknown Ceramic capacitor
R7	RESISTOR	51.1	1% 1/10W	0603	Resistor
C61	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacitor
C61	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
R3	RESISTOR	51.1	1% 1/10W	0603	Resistor
R1	RESISTOR	51.1	1% 1/10W 1% 1/10W	0603	Resistor
R14	RESISTOR	8.87k	1% 1/10W 1% 0603	Resisto	
R15	RESISTOR	71.5k	1% 0603	Resisto	
R13	RESISTOR	140k	1% 0603	Resisto	
R4	RESISTOR	140k 121k	1% 0603	Resisto	
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R2	RESISTOR	121k	1% 0603	Resisto	ſ	
C96	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic	capacitor
C95	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic	capacitor
R99	RESISTOR	100	5% 1/10W	0603	Resistor	
R98	RESISTOR	100	5% 1/10W	0603	Resistor	r
U12	MAX9180 unknown	unknown	SC70-6 unknown			
U11	MAX9180 unknown	unknown	SC70-6 unknown			
Js	StackConn	unknown	unknown RC422-20	00-201-39	900	Stacking connect
or						
R71	RESISTOR	4.99k	1% 0603	Resisto	2	
C88	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic	capacitor
U8	OSC 2104D60	XAYOOOD	unknown FP14	Surface	Mount Os	scillator
R84	RESISTOR	DNP	5% 1/10W	0603	Resistor	c
J8	Header unknown	unknown	HEADER16	unknown		
R83	RESISTOR	DNP	5% 1/10W	0603	Resistor	r
R82	RESISTOR	DNP	5% 1/10W	0603	Resistor	r
R81	RESISTOR	DNP	5% 1/10W	0603	Resistor	r.
R80	RESISTOR	DNP	5% 1/10W	0603	Resistor	
R91	RESISTOR	4.7k	5% 1/10W	0603	Resistor	r
R87	RESISTOR	4.7k	5% 1/10W	0603	Resistor	
R88	RESISTOR	1k	5% 1/10W	0603	Resistor	r.
R89	RESISTOR	1k	5% 1/10W	0603	Resistor	r.
R90	RESISTOR	1k	5% 1/10W	0603	Resistor	r.
J6	MDM9S unknown	unknown				
C99	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic	capacitor
U9	DS26LV32A		unknown CFP16	unknown		
J9	HEADER14	87832-14		HEADER1		unknown
R94	RESISTOR	4.7k	5% 1/10W	0603	Resistor	
R95	RESISTOR	4.7k	5% 1/10W	0603	Resistor	
R96	RESISTOR	4.7k	5% 1/10W	0603	Resistor	
R97	RESISTOR	4.7k	5% 1/10W	0603	Resistor	r
U4	Artix XC7A50T-	-1FGG4840	C unknown	BGA484	unknown	

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