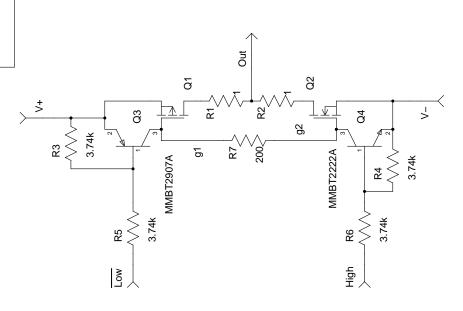
# Nodsi Aerospace, Ltd. 2822 South Nova Road, Pine, Colorado, USA 80470

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subckt Booster %up.

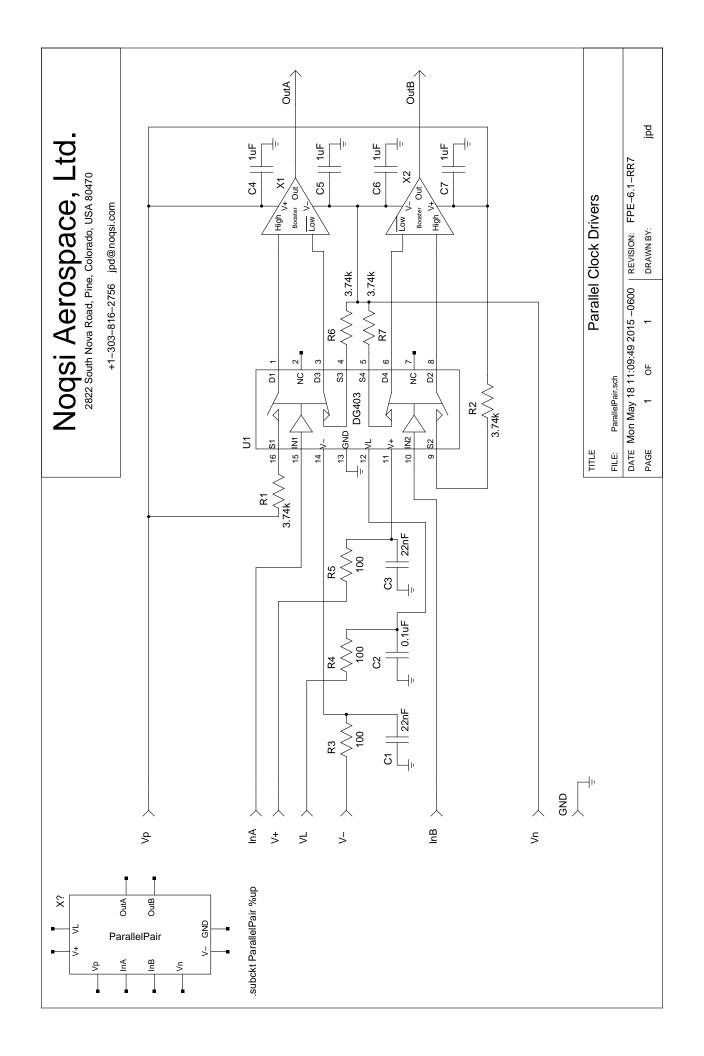
Parallel clock current booster	
	Booster.sch

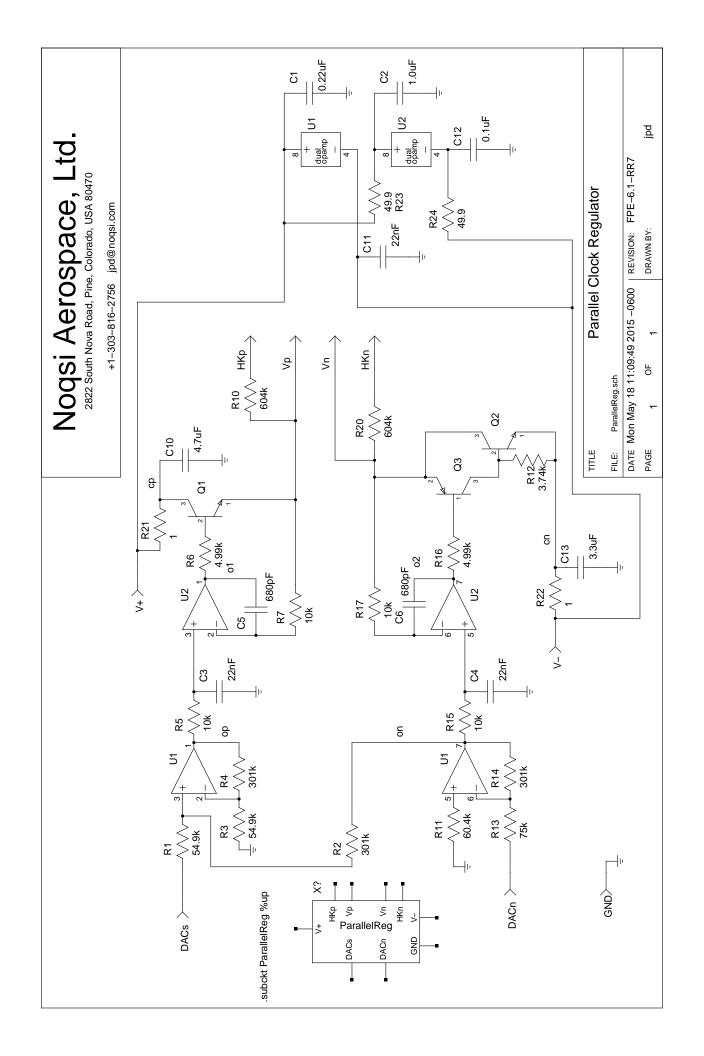
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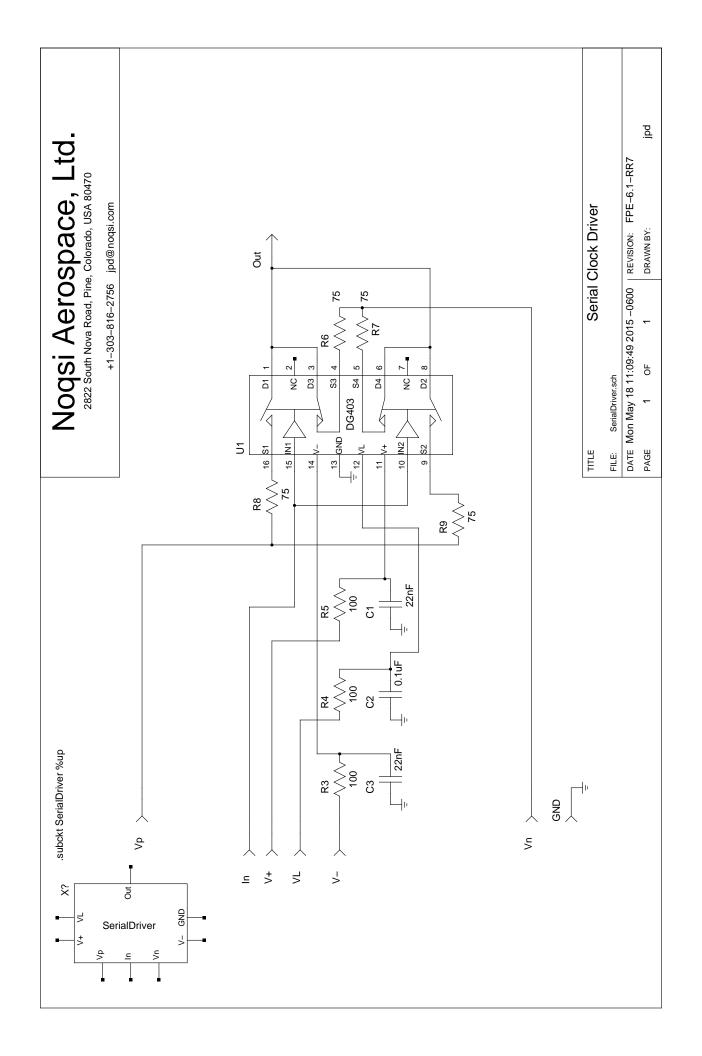
DATE Mon May 18 11:09:49 2015 -0600 | REVISION: FPE-6.1-RR7 PAGE

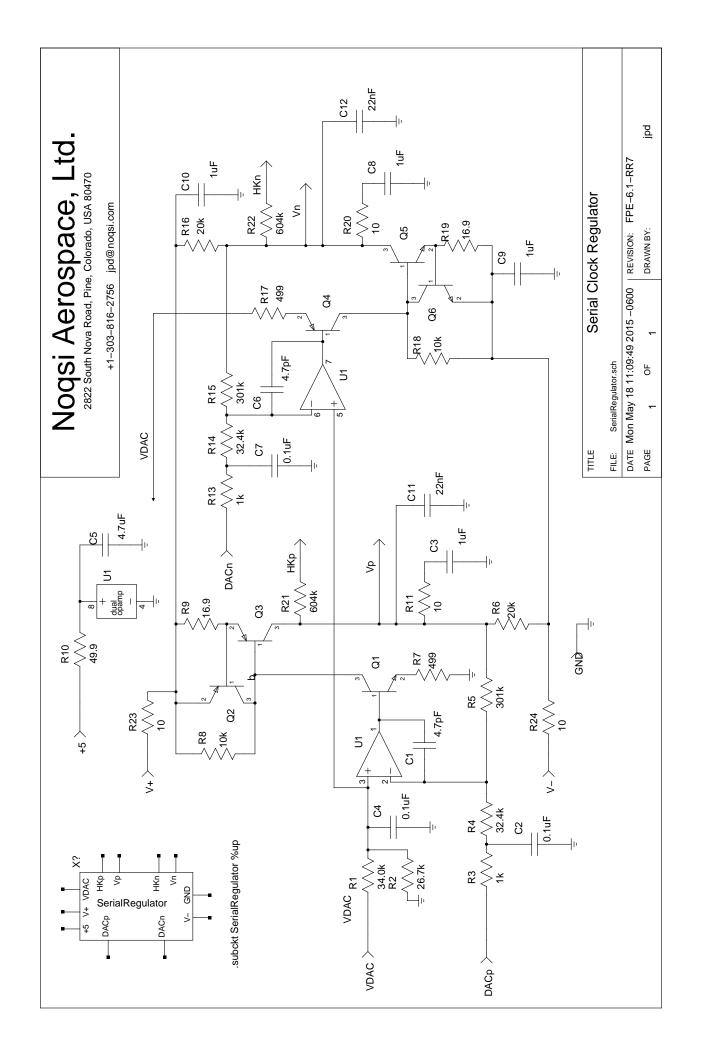
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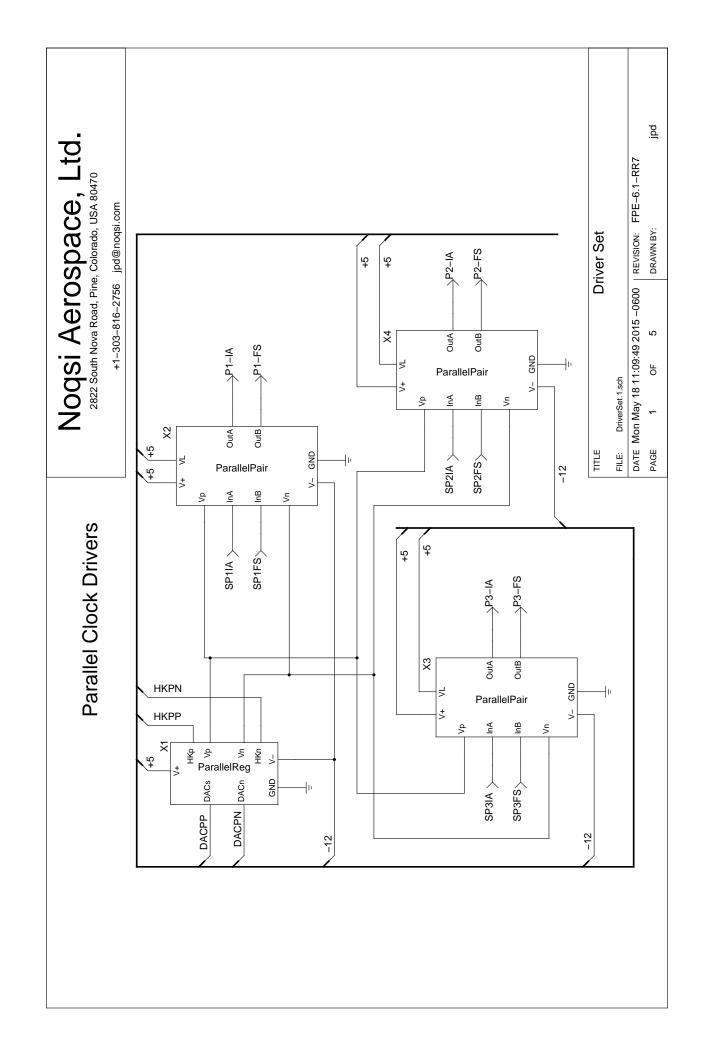
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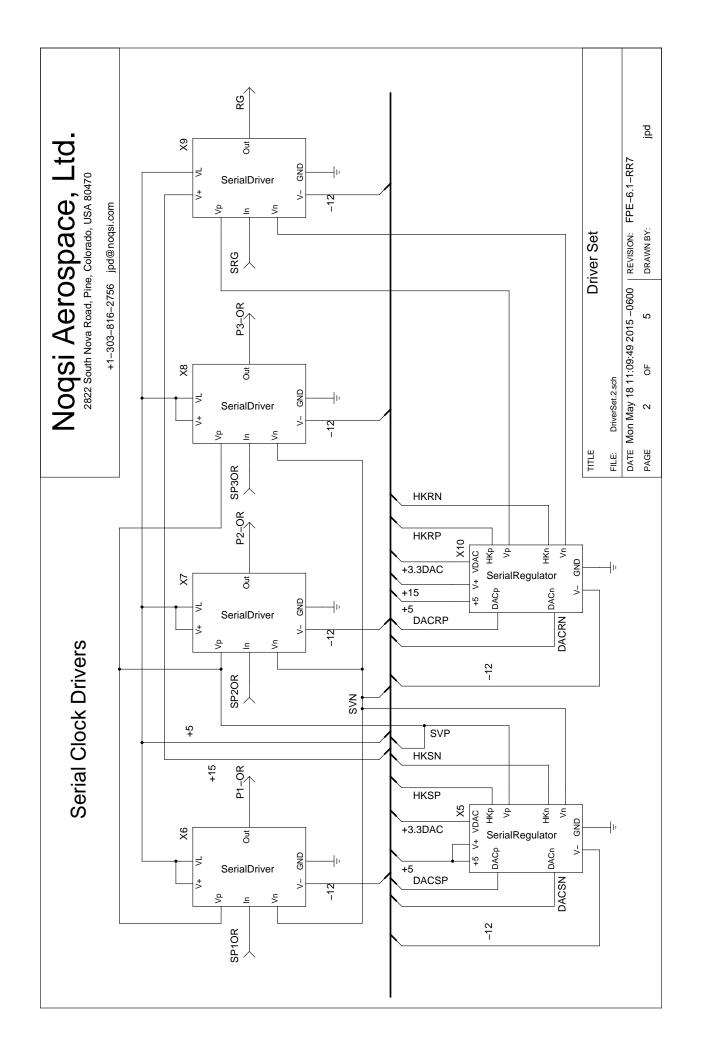


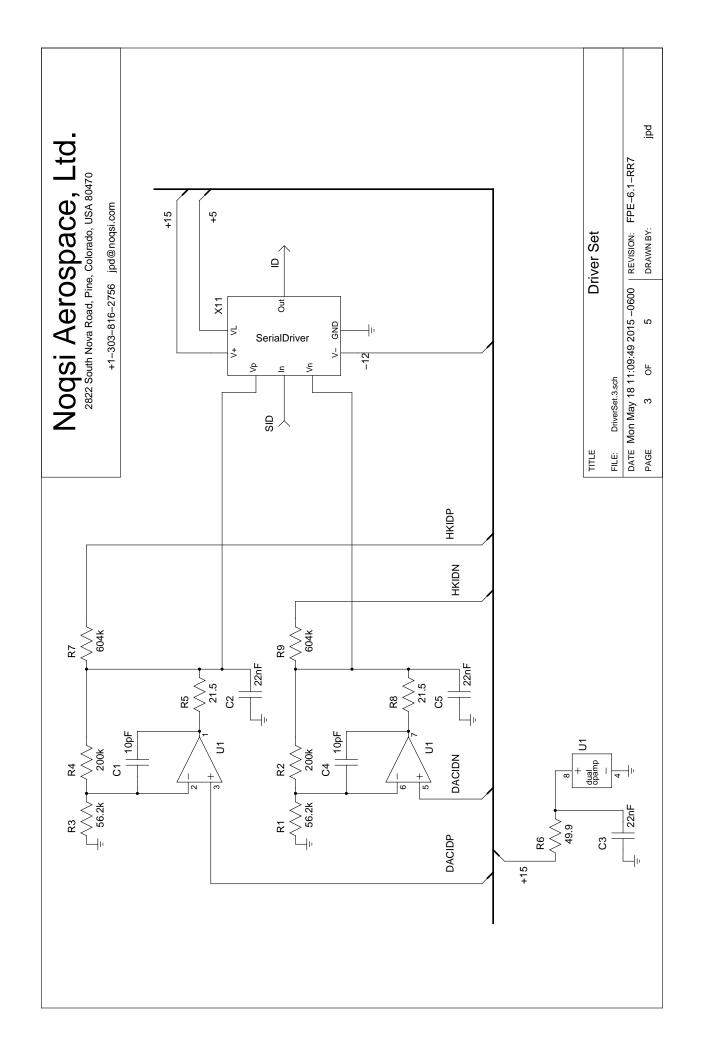


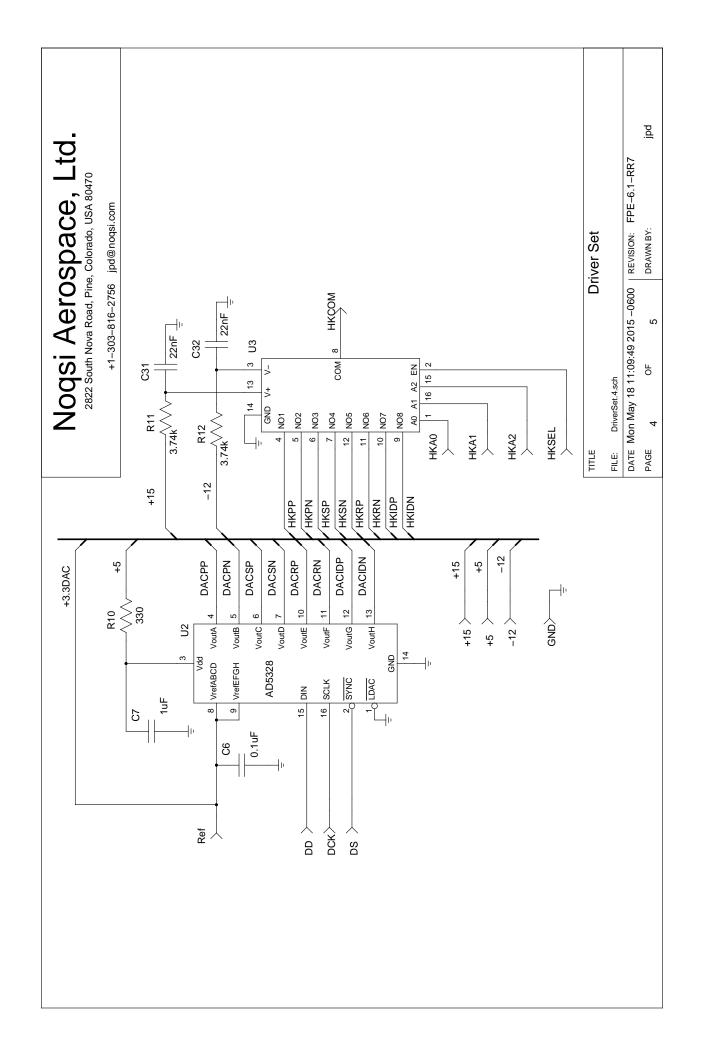




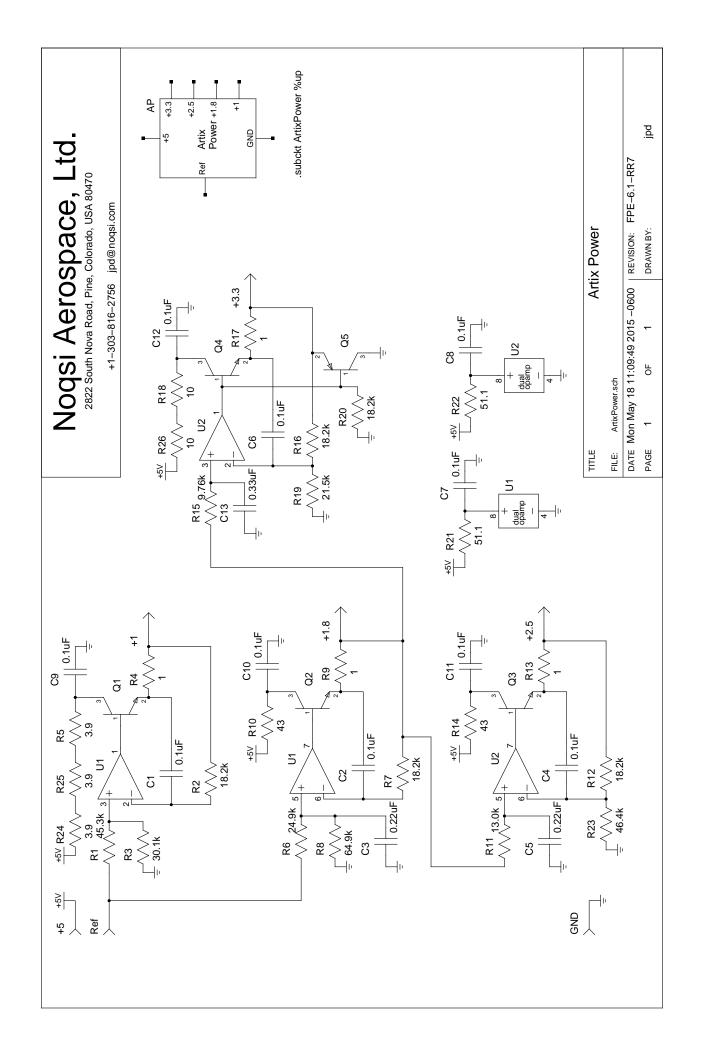


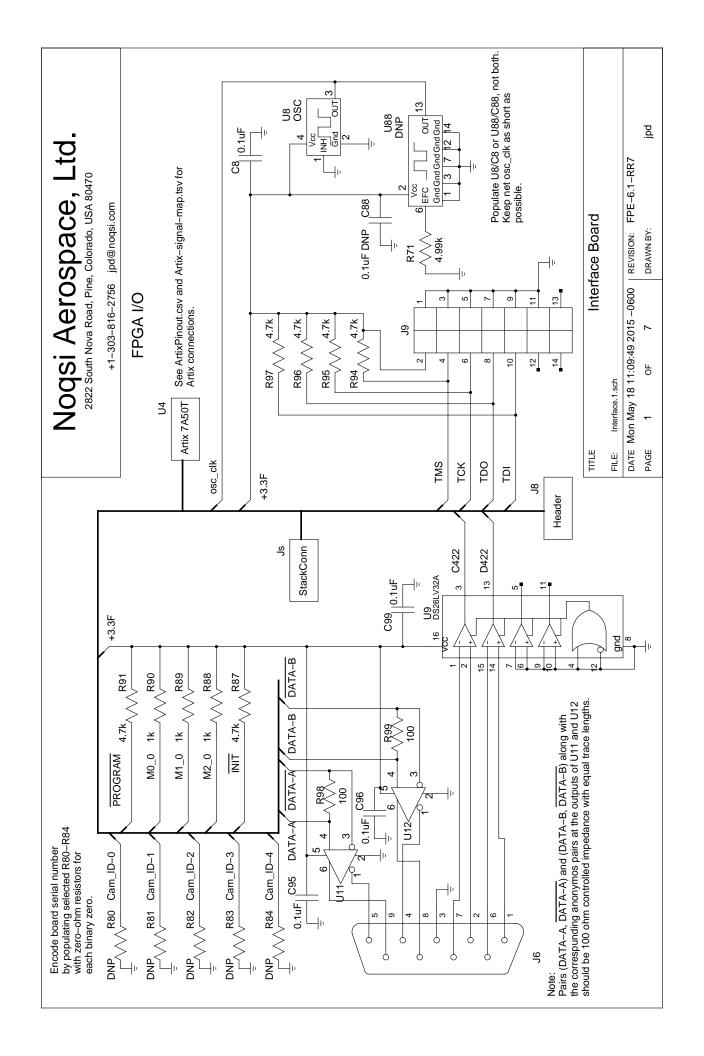


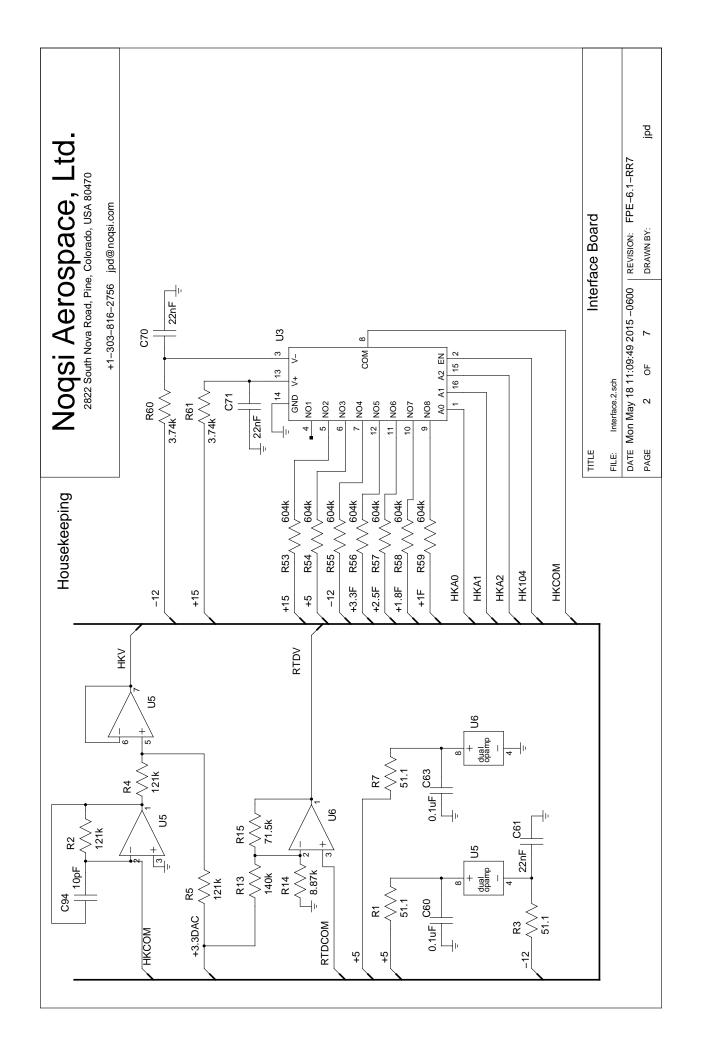




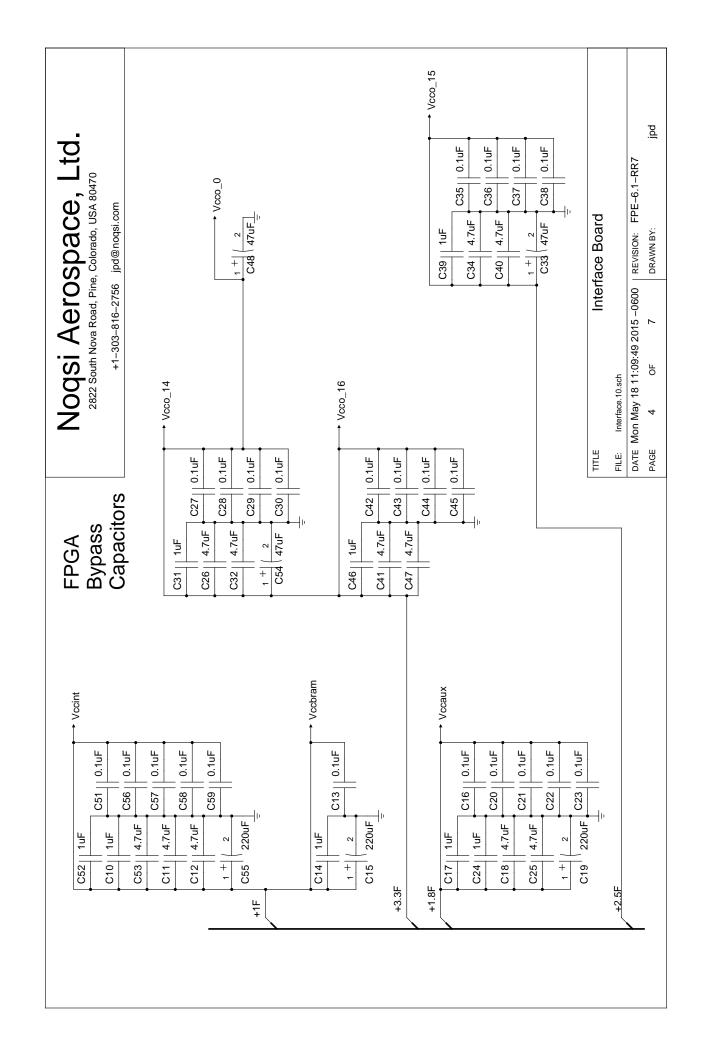
### рd Nodsi Aerospace, Ltd. 2822 South Nova Road, Pine, Colorado, USA 80470 DATE Mon May 18 11:09:49 2015 -0600 | REVISION: FPE-6.1-RR7 +1-303-816-2756 jpd@noqsi.com DRAWN BY: **Driver Set** P3-U X14 Ont SerialDriver FILE: DriverSet.5.sch SP3U P2-U X13 Ont GND SerialDriver SVP SP2U SVN 42 4 P1-C X12 Ont SerialDriver SP1U

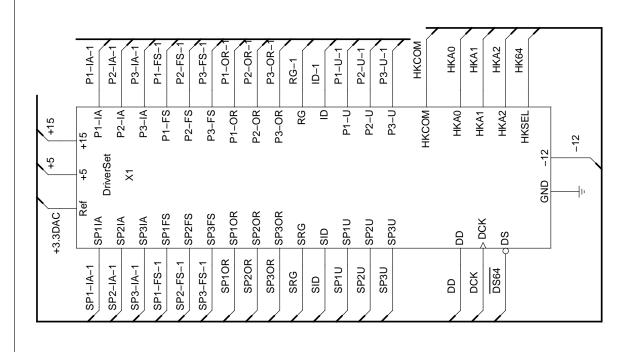






### bd Noqsi Aerospace, Ltd DATE Mon May 18 11:09:49 2015 -0600 | REVISION: FPE-6.1-RR7 2822 South Nova Road, Pine, Colorado, USA 80470 +1-303-816-2756 jpd@noqsi.com Interface Board +3.3F DRAWN BY: +2.5F SCK 8 HKC HKCS SDO 7 HKD C75 0.1uF C76 3 REF VDDVIO 10 5 AD7984BRMZ SDI 6 IN- GND CNV 6 FILE: Interface.3.sch 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 ¥

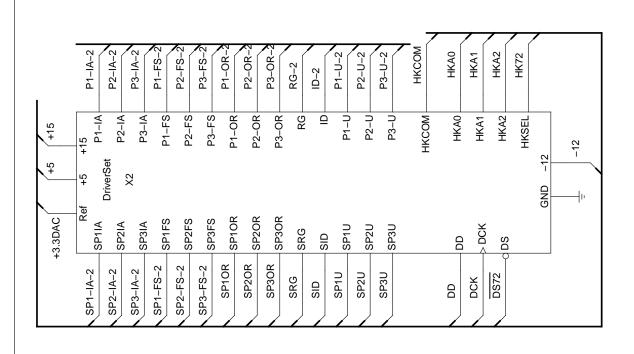




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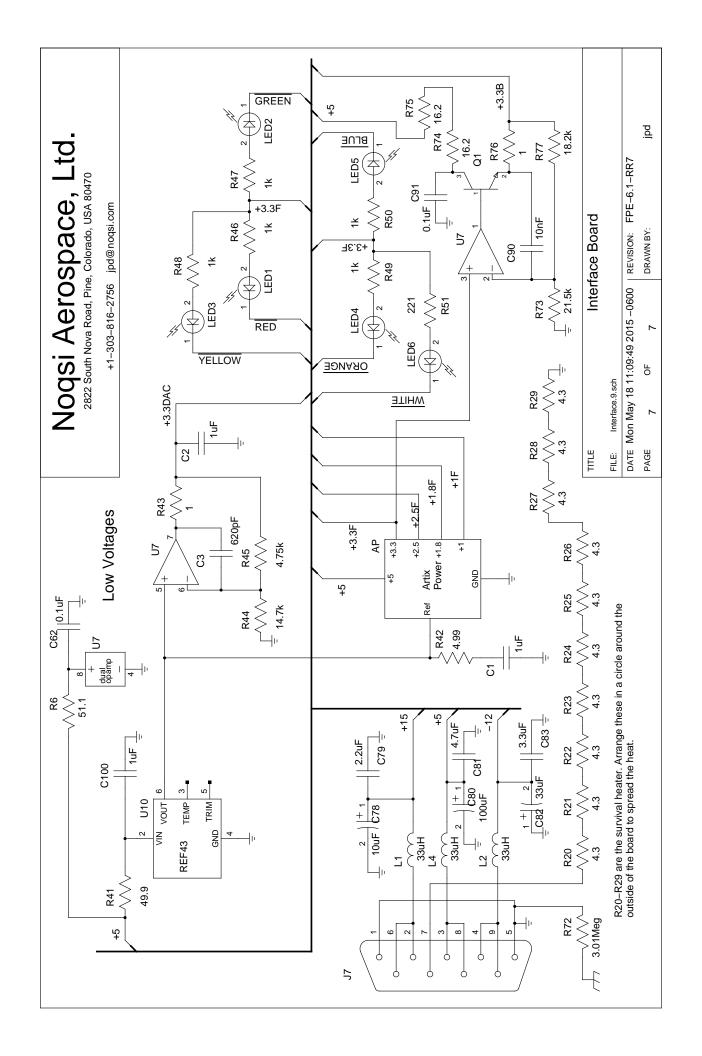
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ırd		FPE-6.1-RR7	
Interface Board		REVISION:	DRAWN BY:
Inter	Interface.5.sch	DATE Mon May 18 11:09:49 2015 -0600   REVISION: FPE-6.1-RR7	5 OF 7
TITLE	FILE: Interfa	ATE Mon M	PAGE
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## Nodsi Aerospace, Ltd. 2822 South Nova Road, Pine, Colorado, USA 80470

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May	12, 15 15:08	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\_	

Ма	y 12, 15 16:37		Interface.U4.txt	Page 1/5
U4	F18	SP1-IA-4 (	CCD_IA1_pin[3]	
U4	B20	SP1-IA-3	CCD_IA1_pin[2]	
U4	E18	SP1-IA-2	CCD_IA1_pin[1]	
U4	A20	SP1-IA-1	CCD_IA1_pin[0]	
U4	B21		CCD_IA2_pin[3]	
U4	A21	SP2-IA-3	CCD_IA2_pin[2]	
U4	C22	SP2-IA-2	CCD_IA2_pin[1]	
U4	B22	SP2-IA-1	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	D16		CCD_FS1_pin[3]	
U4	E14		CCD_FS1_pin[2]	
U4	C14		CCD_FS1_pin[1]	
U4	E13		CCD_FS1_pin[0]	
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 U4	D14		CCD_FS3_pin[3] CCD_FS3_pin[2]	
U4 U4	D15 C15		CCD_FS3_pin[2] CCD_FS3_pin[1]	
U4	E16		CCD_FS3_pin[1]	
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	J20	SDO-B-3 CCD_ADC_S		
U4	J14	SDO-A-3 CCD_ADC_S	Sdi_pin[8]	
U4	J21	SDO-D-2 CCD_ADC_S	Sdi_pin[7]	
U4	M21	SDO-C-2 CCD_ADC_S	Sdi_pin[6]	
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	H19	SDO-B-1 CCD_ADC_S		
U4	N22	SDO-A-1 CCD_ADC_S		
U4	V18		Sel_pin[2]	
U4	V19		Sel_pin[1]	
U4	AB20		Sel_pin[0]	
U4 U4	L18 K21		DebugStatus_pins[7]	
U4 U4	K21 H18	ArtixDebug6 I \_RED\_ DebugStat	DebugStatus_pins[6]	
U4 U4	н18 К22		DebugStatus_pins[4]	
U4	G20		DebugStatus_pins[4]	
U4	H20		DebugStatus_pins[3]	
U4	J22		DebugStatus_pins[2]	
U4	H22	·—	DebugStatus_pins[1]	
U4	F13	·—	Cam_ID_pin[4]	
U4	E17		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_6		
U4	Y18	cwclk ChargePun		
U4	R18	SP1U CCD_SU1_F		
1		_		

May	12, 15 16:37	Interface.U4.txt	Page 2/5
U4	N13	SP2U CCD_SU2_pin	
U4	N14	SP3U CCD_SU3_pin	
U4	R17	SP1OR CCD_S1_pin	
U4	N17	SP2OR CCD_S2_pin	
U4 U4	P17 R16	SP3OR CCD_S3_pin 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	R22	D422 Cmd_DIN_pin	
U4	U20	C422 Cmd_SCK_pin	
U4	G15	DATA-A dataA_out_pin_p	
U4	H13 G16	DATA-B dataB_out_pin_p	
U4 U4	G18 G13	\_DATA-A\_ dataA_out_pin_n \_DATA-B\_ dataB_out_pin_n	
U4	AA21	\_DATA-B\_ datab_out_pin_n HKC	
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	U22	HK16 HSK_ADC_16_pin	
U4	V22	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 U4	P21 P19	HK56 HSK_ADC_56_pin 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	R21	HK96 HSK_ADC_96_pin	
U4	U17	HK104 HSK_ADC_104_pin	
U4	W17	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 U4	L13 K13	\_DS16\_	
U4 U4	K13 K14	\_DS24\_	
U4	N20	\_DS40\_ CLS_DCS_40_pin	
U4	M20	\_DS48\_ CLS_DCS_48_pin	
U4	N18	\_DS56\_ CLS_DCS_56_pin	
U4	M15	\_DS64\_ CLS_DCS_64_pin	
U4	M16	\_DS72\_ CLS_DCS_72_pin	
U4	J16	\_DS80\_ CLS_DCS_80_pin	
U4	H17	\_DS88\_	
U4	N19	\_DS96\_ CLS_DCS_96_pin	
U4	M18	DD CLC_DAC_Din_pin	
U4 U4	L19 M9	DCK CLC_DAC_Sck_pin GND VN_0	
U4 U4	M9 L10	GND VP_0	
U4	G11	DONE_0 DONE_0	
U4	N10	GND DXP_0	
U4	K9	GND GNDADC_0	
U4	K10	+1.8F VCCADC_0	
U4	M10	GND VREFP_0	

NASSA	40.45.40:07		Interfece IIA tyt	D 0/F
	12, 15 16:37		Interface.U4.txt	Page 3/5
U4	E12	GND	VCCBATT_0	
U4 U4	V12 N9	TCK GND	TCK_0	
U4 U4	L9	GND	DXN_0 VREFN_0	
U4	L12	C422	CCLK_0	
U4	U11	M0_0	M0_0	
U4	U10	M1_0	M1_0	
U4	U12	\_INIT\		
U4	R13	TDI	TDI_0	
U4	U13	TDO	TDO_0	
U4	U9	M2_0	$M2\overline{0}$	
U4	U8	+3.3F	3.30	
U4	N12	\_PROGF		
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	M14	GND +3.3F	3.30	
U4	P18	+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	Н16	+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 U4	C21 D18	+3.3F +3.3F	3.30 3.30	
U4	E15	+3.3F +3.3F	3.30	
U4	F22	+3.3F	3.30	
U4	AA7	GND	VCCO_34	
U4	AB4	GND	VCCO_34	
U4	R5	GND	VCCO_34	
U4	T2	GND	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 U4	B10 D9	GND GND	MGTPRXP2_216 MGTPRXP3_216	
U4	D9 В8	GND	MGTPRXP0_216	
U4	C11	GND	MGTPRXN1_216	
U4	A10	GND	MGTPRXN2_216	
U4	C9	GND	MGTPRXN3_216	
U4	A8	GND	MGTPRXN0_216	
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Mov 1	10 15 16:07		Interface.U4.txt	Dogo 4/5
	12, 15 16:37			Page 4/5
U4	F8	GND	MGTRREF_216	
U4	D8	GND	GND	
U4	A2	GND	GND	
U4 U4	A3 A5	GND GND	GND GND	
U4	A5 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 U4	E4 E5	GND GND	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 Ј8	GND GND	GND GND	
U4	J10	GND	GND	
U4	J12	GND	GND	
U4	J18	GND	GND	
U4	K5	GND	GND	
U4	K7	GND	GND	
U4	K11	GND	GND	
U4	K15	GND	GND	
U4	L2	GND	GND	
U4	L8	GND	GND	
1				

May	12, 15 16:37			Interface.U4.txt	Page 5/5
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	P7	GND	GND		
U4	P9	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	T7	GND	GND		
U4	T9	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	V21 W8	GND	GND		
U4	w8 W18	GND	GND GND		
U4 U4	W10 Y5	GND GND	GND		
U4 U4	Y15	GND	GND		
U4	H8	+1F	VCCINT		
U4	H10	+1F	VCCINT		
U4	J7	+1F	VCCINT		
U4	J9	+1F	VCCINT		
U4	K8	+1F	VCCINT		
U4	L7	+1F	VCCINT		
U4	M8	+1F	VCCINT		
U4	N7	+1F	VCCINT		
U4	P8	+1F	VCCINT		
U4	P10	+1F	VCCINT		
U4	R7	+1F	VCCINT		
U4	R9	+1F	VCCINT		
U4	Т8	+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		

						Page 1/19	
May 18,	15 11:14		Interface.bon	Interface.bom.txt			
refdes	device value	spec	footprint	descrip	tion		
L2	MIL4922 33uH		M27/367-27		incuctor		
L4	MIL4922 33uH		M27/367-27		incuctor		
R75	RESISTOR	16.2	5% 1W 2512	Resisto:			
R74	RESISTOR	16.2	5% 1W 2512	Resisto			
C91	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacit	tor	
R73	RESISTOR	21.5k	1% 1/10W	0603	Resistor		
R76	RESISTOR	1	1% 1/10W	0603	Resistor		
Q1	NPN_TRANSISTOR	MMBT2222			unknown		
C90	CAPACITOR	10nF	50WVDC X7R	0603	Ceramic capacit	tor	
R77	RESISTOR	18.2k	1% 1/10W	0603	Resistor		
R72	RESISTOR		1% 1/10W	0603	Resistor		
GP1 R29			CHASSIS unknown 5% 1W 2512	Dogiato	10		
R29 R28	RESISTOR	4.3 4.3	5% 1W 2512 5% 1W 2512	Resisto:			
R26	RESISTOR	4.3	5% 1W 2512 5% 1W 2512	Resisto:			
R20 R27	RESISTOR	4.3	5% 1W 2512 5% 1W 2512	Resisto:			
R24	RESISTOR RESISTOR	4.3	5% 1W 2512 5% 1W 2512	Resisto:			
R25	RESISTOR	4.3	5% 1W 2512 5% 1W 2512	Resisto:			
R22	RESISTOR	4.3	5% 1W 2512 5% 1W 2512	Resisto:			
R23	RESISTOR	4.3	5% 1W 2512	Resisto:			
R21	RESISTOR	4.3	5% 1W 2512	Resisto			
R20	RESISTOR	4.3	5% 1W 2512	Resisto			
U7	DUAL_OPAMP	LM6142A		SO8	generic dual o	nerational	
	ier, SO8	LINOI 12A.	In IV/A	500	generic duar of	peracronar	
R6	RESISTOR	51.1	1% 1/10W	0603	Resistor		
C1	CAPACITOR	luF	10WVDC X7R	0805	Ceramic capacit	tor	
R42	RESISTOR	4.99	1% 1/10W	0603	Resistor	001	
C62	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacit	tor	
C2	CAPACITOR	1uF	10WVDC X7R	0805	Ceramic capacit		
R45	RESISTOR	4.75k	1% 1/10W	0603	Resistor		
C3	CAPACITOR	620pF	50WVDC X7R	0603	Ceramic capaci	tor	
R44	RESISTOR	14.7k	1% 1/10W	0603	Resistor		
R43	RESISTOR	1	1% 1/10W	0603	Resistor		
C79	CAPACITOR	2.2uF	50WVDC X7R	2225	Ceramic capacit	tor	
C83	CAPACITOR	3.3uF	25WVDC X7R	2225	Ceramic capacit		
C81	CAPACITOR	4.7uF	10WVDC X7R	1812	Ceramic capacit		
C82	POLARIZED_CAPAC	ITOR	33uF 25WVDC	2915	Tantalum capac		
C78	POLARIZED_CAPAC	ITOR	10uF 35WVDC	2915	Tantalum capac:	itor	
C80	POLARIZED_CAPAC	ITOR	100uF 15WVDC,	low R	2915 Tantalı	um capacit	
or		_					
J7	747467-1		unknown 747467-		unknown		
L1	MIL4922 33uH		M27/367-27		incuctor		
R51	RESISTOR	221	1% 1/10W	0603	Resistor		
LED6	LED 67-2226-		unknown 0603	LED			
R50	RESISTOR	1k	1% 1/10W	0603	Resistor		
LED5			unknown 0603	LED	D!!		
R49	RESISTOR	1k	1% 1/10W	0603	Resistor		
LED4	LED 475-2483		unknown 0603	LED			
AP/C13	CAPACITOR	0.33uF	10WVDC X7R	0805	Ceramic capacit	tor	
AP/R26	RESISTOR	10	5% 1W 2512	Resisto:			
AP/R18	RESISTOR	10	5% 1W 2512	Resisto:			
AP/R14	RESISTOR	43	5% 1W 2512	Resisto:			
AP/R10	RESISTOR	43	5% 1W 2512	Resisto:			
AP/R24	RESISTOR	3.9	5% 1W 2512 5% 1W 2512	Resisto			
AP/R25	RESISTOR	3.9	5% 1W 2512 1% 1/10W	Resisto:			
AP/R23 AP/C11	RESISTOR	46.4k 0.1uF	16 H/ 10 W 16 WVDC X7R	0603 0603	Resistor	tor	
AP/C11 AP/C10	CAPACITOR CAPACITOR	0.1uF	16WVDC X7R 16WVDC X7R	0603	Ceramic capacit		
AF/CIU	CAPACITOR	U.IUF	TOMADO VIK	0003	ceramic capaci	COT	

May 18.	15 11:14		Interf	ace.bon	n.txt		Page 2/19
AP/C12	CAPACITOR	0.1uF	16WVDC 2		0603	Ceramic	capacitor
AP/C1Z AP/C9	CAPACITOR	0.1uF	16WVDC 2		0603		capacitor
AP/C8	CAPACITOR	0.1uF	16WVDC		0603		capacitor
	RESISTOR	51.1	1% 1/10		0603	Resisto	_
AP/C7	CAPACITOR	0.1uF	16WVDC		0603		capacitor
AP/R21	RESISTOR	51.1	1% 1/10		0603	Resisto	
	RESISTOR	18.2k	1% 1/10		0603	Resisto	
	RESISTOR	21.5k	1% 1/10		0603	Resisto	
AP/Q5	PNP_TRANSISTOR		7A	unknown	UB	unknown	
AP/R17	RESISTOR	1	1% 1/10	N	0603	Resisto	r
AP/Q4	NPN_TRANSISTOR	MMBT222	2A	unknown	UB	unknown	
AP/C6	CAPACITOR	0.1uF	16WVDC 2	X7R	0603	Ceramic	capacitor
AP/R16	RESISTOR	18.2k	1% 1/10	N	0603	Resisto	r
AP/R15	RESISTOR	9.76k	1% 1/10		0603	Resisto	
AP/C5	CAPACITOR	0.22uF	10WVDC		0805		capacitor
· ·	RESISTOR	1	1% 1/10		0603	Resisto	
AP/Q3	NPN_TRANSISTOR			unknown		unknown	
AP/C4	CAPACITOR		16WVDC		0603		capacitor
	RESISTOR	18.2k	1% 1/10		0603	Resisto	
	RESISTOR	13.0k	1% 1/10		0603	Resisto	
AP/U2	DUAL_OPAMP	LM6142A	LM	N/A	S08	generic	dual operational
	ier, SO8	0 00-7	100000	77D	0005	Q =	
AP/C3	CAPACITOR		10WVDC 2		0805		capacitor
	RESISTOR	1	1% 1/100		0603	Resisto	r
AP/Q2	NPN_TRANSISTOR			unknown		unknown	
AP/R8	RESISTOR	64.9k	1% 1/10V		0603	Resistor	
AP/C2	CAPACITOR	0.1uF 18.2k	16WVDC 2		0603 0603	Resistor	capacitor
AP/R7 AP/R6	RESISTOR RESISTOR	16.2k 24.9k	1% 1/10		0603	Resisto	
AP/R5	RESISTOR	3.9	5% 1W	2512	Resisto		L
AP/R4	RESISTOR	1	5% 1/4W		Resisto		
AP/Q1	NPN_TRANSISTOR			unknown		unknown	
AP/R3	RESISTOR	30.1k	1% 1/10V		0603	Resisto	r
	CAPACITOR	0.1uF	16WVDC		0603		capacitor
	RESISTOR	18.2k	1% 1/10		0603	Resisto	
AP/R1	RESISTOR	45.3k	1% 1/10		0603	Resisto	
AP/U1	DUAL_OPAMP	LM6142A		N/A	S08		dual operational
	ier, <u>5</u> 08					_	-
R48	RESISTOR	1k	1% 1/10		0603	Resisto	r
LED3	LED 475-279		unknown		LED		
R47	RESISTOR	1k	1% 1/10		0603	Resisto	r
LED2	LED 475-270		unknown		LED		
R46	RESISTOR	1k	1% 1/10		0603	Resisto	r
LED1	LED 475-250		unknown		LED		
C100	CAPACITOR	1uF	10WVDC 2		0805		capacitor
R41	RESISTOR	49.9	1% 1/10V		0603	Resisto	r
U10	REFERENCE	REF43GS		SO8	2.5V Re		Dogi atom
X2/X14/I			75 75	1% 1/10		0603	Resistor
X2/X14/I			75 75	1% 1/10		0603 0603	Resistor
X2/X14/I X2/X14/I			75 75	1% 1/10V 1% 1/10V		0603	Resistor Resistor
X2/X14/I X2/X14/I			100	1% 1/10		0603	Resistor
X2/X14/1 X2/X14/0			22nF	50WVDC 2		0603	Ceramic capacito
r	CAPACII	O10	∠ ∠ 111'	JUWVDC 2	77 / 1/	0003	CETAMIC Capacito
x2/x14/I	R4 RESISTO	R	100	1% 1/10	W	0603	Resistor
X2/X14/(			0.1uF	16WVDC 2		0603	Ceramic capacito
r	_				. =		
X2/X14/I	R5 RESISTO	R	100	1% 1/10	W	0603	Resistor
X2/X14/0			22nF	50WVDC		0603	Ceramic capacito
00/44							

May 18, 15 11:14		Interf	ace.bom.txt		Page 3/19
r					
x2/x14/U1	DG403 unknown	unknown	SO16 Dual SP	DT switcl	h
X2/X13/R9	RESISTOR	75	1% 1/10W	0603	Resistor
X2/X13/R8	RESISTOR	75	1% 1/10W	0603	Resistor
X2/X13/R7	RESISTOR	75 75	1% 1/10W	0603	Resistor
			1% 1/10W	0603	Resistor
	X2/X13/R6 RESISTOR				
X2/X13/R3	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X13/C3	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r		100	10 1/10	0.600	
X2/X13/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X13/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r					
X2/X13/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X13/C1	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r					
X2/X13/U1			SO16 Dual SP		
X2/X12/R9	RESISTOR	75	1% 1/10W	0603	Resistor
X2/X12/R8	RESISTOR	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/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X12/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r					<b>-</b>
X2/X12/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X12/C1	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r					
x2/x12/U1	DG403 unknown	unknown	SO16 Dual SP	DT switc	h
X2/R12 RESISTOR		1% 1/100		Resisto	
X2/R11 RESISTOR		1% 1/10V		Resisto	
X2/C7 CAPACITO					capacitor
X2/R10 RESISTOR		5% 0.15W 0805 Resistor			
X2/C6 CAPACITO		16WVDC 2			capacitor
X2/C32 CAPACITO		50WVDC 2			capacitor
X2/U3 MAX308C			SO16 8 input		
		50WVDC			
X2/C31 CAPACITO				Ceramic	capacitor
	unknown unknown	LT2078A		go0	unknown
X2/X1/U1	DUAL_OPAMP			S08	
X2/X1/R21	RESISTOR	1	1% 1/10W	0603	Resistor
X2/X1/R22	RESISTOR	1	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	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r					
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					-
X2/X1/R20	RESISTOR	604k	1% 1/10W	0603	Resistor
X2/X1/R10	RESISTOR	604k	1% 1/10W	0603	Resistor
	CAPACITOR	0.22uF	10WVDC X7R	0603	Ceramic capacito
$I \Delta Z / \Delta I / C I$					
X2/X1/C1   r	CHINCIION	0.11011	1000000 11710		
	RESISTOR	3.74k	1% 1/10W	0603	Resistor

May 18, 15 11:14		Interf	ace.bor	n.txt		Page 4/19
X2/X1/Q2	LM195H unknown	unknown	TO39	unknown		
X2/X1/R16	RESISTOR	4.99k	1% 1/10		0603	Resistor
X2/X1/Q3	PNP_TRANSISTOR	MMBT290		unknown		unknown
X2/X1/R2	RESISTOR	301k	1% 1/10		0603	Resistor
X2/X1/C6	CAPACITOR	680pF	50WVDC		0603	Ceramic capacito
r						
X2/X1/R6	RESISTOR	4.99k	1% 1/10	W	0603	Resistor
X2/X1/Q1	LM195H unknown			unknown		
X2/X1/R17	RESISTOR	10k	1% 1/10		0603	Resistor
X2/X1/R7	RESISTOR	10k	1% 1/10		0603	Resistor
X2/X1/C5	CAPACITOR	680pF	50WVDC		0603	Ceramic capacito
r	01111011011	0001	3311123	0		columno capación
X2/X1/U2	DUAL_OPAMP	LM6142A	ΤМ	N/A	S08	generic dual ope
rational amplif:		1110112111		14/11	500	generie daar ope
X2/X1/C4	CAPACITOR	22nF	50WVDC	X7R	0603	Ceramic capacito
r	CHITICITOR	22111	3011120	21710	0005	ceramic capacito
x2/x1/c3	CAPACITOR	22nF	50WVDC	Y7Р	0603	Ceramic capacito
r	CHILICITOR	22111	SOWVEC	21 / 10	0003	ceramic capacito
X2/X1/R15	RESISTOR	10k	1% 1/10	TAT	0603	Resistor
X2/X1/R5	RESISTOR	10k	1% 1/10		0603	Resistor
X2/X1/R11	RESISTOR	60.4k	1% 1/10		0603	Resistor
X2/X1/R13	RESISTOR	75k	1% 1/10		0603	Resistor
			1% 1/10			
X2/X1/R14	RESISTOR	301k			0603	Resistor
X2/X1/R1	RESISTOR	54.9k	1% 1/10		0603	Resistor
X2/X1/R3	RESISTOR	54.9k	1% 1/10		0603	Resistor
X2/X1/R4	RESISTOR	301k	1% 1/10		0603	Resistor
X2/X2/C2	CAPACITOR	0.1uF	16WVDC	X/R	0603	Ceramic capacito
r	G1-01-G1-00-	00 -	E 0		0.500	~ .
X2/X2/C3	CAPACITOR	22nF	50WVDC	X'/R	0603	Ceramic capacito
r	G1-01-G1-00-	00 -	5 0 1 1 1 T G		0.500	~ .
X2/X2/C1	CAPACITOR	22nF	50WVDC	X'/R	0603	Ceramic capacito
r			0 =			
X2/X2/C7	CAPACITOR	1uF	25WVDC	X'/R	1812	Ceramic capacito
r			0 =			
X2/X2/C4	CAPACITOR	1uF	25WVDC	X'/R	1812	Ceramic capacito
r		_		_		
X2/X2/C6	CAPACITOR	1uF	25WVDC	X7R	1812	Ceramic capacito
r						
X2/X2/C5	CAPACITOR	1uF	25WVDC	X7R	1812	Ceramic capacito
r						
X2/X2/R2	RESISTOR	3.74k	1% 1/10		0603	Resistor
X2/X2/R1	RESISTOR	3.74k	1% 1/10	W	0603	Resistor
X2/X2/R7	RESISTOR	3.74k	1% 1/10	W	0603	Resistor
X2/X2/R6	RESISTOR	3.74k	1% 1/10	W	0603	Resistor
X2/X2/X2/Q1	PMOS_TRANSISTOR	IRFR9120	NC	unknown	TO252AA	generic P channe
1 MOS transistor	c (enhancement ty	ype)				
X2/X2/X2/Q2	NMOS_TRANSISTOR	IRFR2201	V	unknown	TO252AA	generic N channe
	c (enhancement ty					
X2/X2/X2/R6	RESISTOR	3.74k	1% 1/10	W	0603	Resistor
X2/X2/X2/R5	RESISTOR	3.74k			0603	Resistor
X2/X2/X2/R4	RESISTOR	3.74k	1% 1/10	W	0603	Resistor
X2/X2/X2/R3	RESISTOR	3.74k	1% 1/10	W	0603	Resistor
X2/X2/X2/R7	RESISTOR	200	1% 1/10	W	0603 0603	Resistor
X2/X2/X2/Q4	NPN_TRANSISTOR			unknown		unknown
X2/X2/X2/Q3		MMBT290		unknown		unknown
X2/X2/X2/Q3 X2/X2/X2/R2	RESISTOR	1		2512	Resistor	
X2/X2/X2/R1	RESISTOR	1	1% 1W	2512	Resistor	
X2/X2/X1/Q1	PMOS_TRANSISTOR	_				generic P channe
	c (enhancement ty		) T.N	WITWITO WIL	10232AA	action to citatine
I MOD CLAMBIBLE	L (CIIIIAIICEMEIIC C)	, DC /				

May 18, 15 11:14		Interf	ace.bo	m.txt		Page 5/19
X2/X2/X1/Q2	NMOS TRANSISTOR	TRFR2201	л Л	unknown	TO252AA	generic N channe
	r (enhancement ty		•	0.1111110 1111	10101111	30110110 11 0110111110
X2/X2/X1/R6	RESISTOR	3.74k	1% 1/1	OW	0603	Resistor
X2/X2/X1/R5	RESISTOR	3.74k	1% 1/1		0603	Resistor
X2/X2/X1/R4	RESISTOR	3.74k	1% 1/1		0603	Resistor
X2/X2/X1/R3	RESISTOR	3.74k	1% 1/1		0603	Resistor
X2/X2/X1/R7	RESISTOR	200	1% 1/1		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	Resisto	
X2/X2/X1/R1	RESISTOR	1	1% 1W	2512	Resistor	
X2/X2/R3	RESISTOR	100	1% 1/1		0603	Resistor
X2/X2/R4	RESISTOR	100	1% 1/1		0603	Resistor
X2/X2/R5	RESISTOR	100	1% 1/1		0603	Resistor
X2/X2/U1		unknown			OT switch	
X2/X3/C2	CAPACITOR	0.1uF	16WVDC		0603	Ceramic capacito
r	01111011011	0 0 2 3.2				coramic caracte
X2/X3/C3	CAPACITOR	22nF	50WVDC	X7R	0603	Ceramic capacito
r X2/X3/C1	CAPACITOR	22nF	50WVDC	X7R	0603	Ceramic capacito
r						
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% 1/1	ΟW	0603	Resistor
X2/X3/R1	RESISTOR	3.74k	1% 1/1		0603	Resistor
X2/X3/R7	RESISTOR	3.74k	1% 1/1		0603	Resistor
X2/X3/R6	RESISTOR	3.74k	1% 1/1		0603	Resistor
X2/X3/X2/Q1	PMOS_TRANSISTOR					generic P channe
	r (enhancement ty			0.1111110 1111		30110110 1 011011110
X2/X3/X2/Q2	NMOS TRANSISTOR		Ŋ	unknown	TO252AA	generic N channe
	r (enhancement ty		•			5
X2/X3/X2/R6	RESISTOR	3.74k	1% 1/1	OW	0603	Resistor
X2/X3/X2/R5	RESISTOR	3.74k	1% 1/1		0603	Resistor
X2/X3/X2/R4	RESISTOR	3.74k	1% 1/1		0603	Resistor
X2/X3/X2/R3	RESISTOR	3.74k	1% 1/1		0603	Resistor
X2/X3/X2/R7	RESISTOR	200	1% 1/1		0603	Resistor
X2/X3/X2/Q4	NPN_TRANSISTOR			unknown		unknown
X2/X3/X2/Q3	PNP_TRANSISTOR	MMBT290		unknown		unknown
X2/X3/X2/R2	RESISTOR	1	1% 1W		Resisto	
X2/X3/X2/R1	RESISTOR	1	1% 1W	2512	Resistor	
X2/X3/X1/Q1	PMOS_TRANSISTOR					generic P channe
	r (enhancement ty					J
X2/X3/X1/Q2	NMOS_TRANSISTOR	IRFR2201	1	unknown	TO252AA	generic N channe
	r (enhancement ty		10, 1/1	O 1-7	0602	Dogiston
X2/X3/X1/R6	RESISTOR	3.74k	1% 1/1		0603	Resistor
X2/X3/X1/R5	RESISTOR	3.74k	1% 1/1		0603	Resistor
X2/X3/X1/R4	RESISTOR	3.74k	1% 1/1		0603	Resistor
X2/X3/X1/R3	RESISTOR	3.74k	1% 1/1		0603	Resistor
X2/X3/X1/R7	RESISTOR	200	1% 1/1		0603	Resistor
X2/X3/X1/Q4	NPN_TRANSISTOR	MMBT222		unknown		unknown
X2/X3/X1/Q3	PNP_TRANSISTOR	MMBT290		unknown		unknown
X2/X3/X1/R2	RESISTOR	1	1% 1W	2512	Resistor	
X2/X3/X1/R1	RESISTOR	Т	1% 1W	2512	KESISTO]	L

May 18, 15 11:14     Interface.bom.txt       X2/X3/R3     RESISTOR     100     1% 1/10W     0603     Resist       X2/X3/R4     RESISTOR     100     1% 1/10W     0603     Resist       X2/X3/R5     RESISTOR     100     1% 1/10W     0603     Resist	Page 6/19
X2/X3/R4 RESISTOR 100 1% 1/10W 0603 Resist	or
X2/X3/U1 DG403 unknown unknown S016 Dual SPDT switch	-01
	c capacito
r children of the following the contraction of the	c capacito
	c capacito
X2/X4/R2	or
X2/X4/R1	
X2/X4/R7   RESISTOR   3.74k   1% 1/10W   0603   Resist	
X2/X4/R6   RESISTOR   3.74k   1% 1/10W   0603   Resist	
X2/X4/X2/Q1   PMOS_TRANSISTOR IRFR9120N   unknown TO252AA generi	
1 MOS transistor (enhancement type)	C I CHAINE
X2/X4/X2/Q2 NMOS_TRANSISTOR IRFR220N unknown TO252AA generi	c N channe
1 MOS transistor (enhancement type)	C IV CHAINIC
X2/X4/X2/R6	or
X2/X4/X2/R5	
X2/X4/X2/R4   RESISTOR   3.74k   1% 1/10W   0603   Resist	
X2/X4/X2/R3   RESISTOR   3.74k   1% 1/10W   0603   Resist	
X2/X4/X2/R7	
X2/X4/X2/Q4   NPN_TRANSISTOR   MMBT2222A   unknown UB   unknow	
X2/X4/X2/Q3   PNP_TRANSISTOR   MMBT2907A   unknown UB   unknow	
X2/X4/X2/R2 RESISTOR 1 1% 1W 2512 Resistor	11
X2/X4/X2/R1 RESISTOR 1 1% 1W 2512 Resistor	
X2/X4/X1/Q1   PMOS_TRANSISTOR IRFR9120N   unknown T0252AA generi	c D channe
1 MOS transistor (enhancement type)	C P Chaine
X2/X4/X1/Q2 NMOS_TRANSISTOR IRFR220N unknown TO252AA generi	a N ahanne
1 MOS transistor (enhancement type)	C N Chaine
X2/X4/X1/R6	or
X2/X4/X1/R5	
X2/X4/X1/R3	
X2/X4/X1/R3	
X2/X4/X1/R3	
X2/X4/X1/R7   RESISTOR   200   1% 1/10W   0603   RESISTOR   X2/X4/X1/Q4   NPN_TRANSISTOR   MMBT2222A   unknown UB   unknow	
X2/X4/X1/Q4	
	11
X2/X4/X1/R2	
	0.75
	OL
X2/X4/U1 DG403 unknown unknown S016 Dual SPDT switch	a ac
r	c capacito
	c capacito
Y	
X2/X10/R24   RESISTOR   10   1% 1/10W   0603   Resist	
X2/X10/R23 RESISTOR 10 1% 1/10W 0603 Resist	
X2/X10/C5 CAPACITOR 4.7uF 10WVDC X7R 1812 Cerami	c capacito

May 18, 15 11:14		Inter	face.bom.txt		Page 7/19
r					
X2/X10/R22	RESISTOR	604k	1% 1/10W	0603	Resistor
X2/X10/R21	RESISTOR	604k	1% 1/10W	0603	Resistor
X2/X10/K21 X2/X10/C10	CAPACITOR	luF	25WVDC X7R	1812	Ceramic capacito
r	CAPACITOR	Tur	ZJWVDC X/K	1012	Ceramic capacito
x2/x10/C9 r	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
x2/x10/C4 r	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
X2/X10/R20	RESISTOR	10	1% 1/10W	0603	Resistor
X2/X10/C8	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
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					
X2/X10/R13	RESISTOR	1k	1% 1/10W	0603	Resistor
X2/X10/R14	RESISTOR	32.4k	1% 1/10W	0603	Resistor
X2/X10/C6  r	CAPACITOR	4.7pF	100WVDC NP0	0603	Ceramic capacito
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					
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   rational amplif	DUAL_OPAMP	LM6142A	IM N/A	S08	generic dual ope
X2/X10/R8	RESISTOR	10k	1% 1/10W	0603	Resistor
X2/X10/R0 X2/X10/R2	RESISTOR	26.7k	1% 1/10W	0603	Resistor
X2/X10/R2 X2/X10/R1	RESISTOR	34.0k	1% 1/10W	0603	Resistor
X2/X10/K1 X2/X10/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r	CAPACITOR	U.Iur	TOWVDC X/K	0003	ceramic capacito
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/R9	RESISTOR	16.9	1% 1/10W	0603	Resistor
X2/X10/R9 X2/X10/Q3	PNP_TRANSISTOR	MMBT290	•		unknown
X2/X10/Q3 X2/X10/Q2	PNP_TRANSISTOR	MMBT290			unknown
X2/X10/Q2 X2/X9/R9	RESISTOR	75	1% 1/10W	0603	Resistor
X2/X9/R9 X2/X9/R8	RESISTOR	75 75	1% 1/10W 1% 1/10W	0603	Resistor
X2/X9/R6 X2/X9/R7	RESISTOR	75 75	1% 1/10W 1% 1/10W	0603	Resistor
X2/X9/R6	RESISTOR	75 75	1% 1/10W 1% 1/10W	0603	Resistor
X2/X9/R0 X2/X9/R3	RESISTOR	100	1% 1/10W 1% 1/10W	0603	Resistor
X2/X9/R3 X2/X9/C3	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r	CALACTION	∠ ∠ 111.	JOWADC VIV	0000	ccramic capacito
X2/X9/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X9/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r vo /vo /pe	DEGIGEOD	100	10. 1 / 1 0 7.7	0602	Dogiator
X2/X9/R5	RESISTOR	100	1% 1/10W	0603	Resistor

May 18, 15 11:14		Interf	ace.bom.txt		Page 8/19
X2/X9/C1	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r	CAPACITOR	22111	JOWVDC A/R	0003	ceramic capacito
x2/x9/U1	DG403 unknown	unknown	SO16 Dual	SPDT switc	h
X2/X8/R9	RESISTOR	75	1% 1/10W	0603	Resistor
		75 75	•		
X2/X8/R8	RESISTOR		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	22nF	50WVDC 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					
X2/X8/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X8/C1	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r					_
X2/X8/U1	DG403 unknown	unknown	SO16 Dual	SPDT switc	h l
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 75	1% 1/10W	0603	Resistor
X2/X7/R6		75 75	1% 1/10W	0603	Resistor
	RESISTOR		•		
X2/X7/R3	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X7/C3	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r		100	10 1/10	0.600	
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		SPDT 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	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r	CALACITOR	22111	JOWVDC A/K	0005	ceramic capacito
x2/x6/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X6/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r x2/x0/C2	CULUCTION	J. IUF	TOMADO VIV	0003	ccramic capacito
X2/X6/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X6/R5 X2/X6/C1	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
	CAPACITOR	Z Z 1 1 F	JUWVDC A/K	0003	ceramic capacito
r vo/ve/ii1	DC/102	112 len 01	CO16 D1	CDDT ~	h
X2/X6/U1	DG403 unknown			SPDT switc	
X2/X5/C12	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r			50	2622	
X2/X5/C11	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r	DDGTG===	1.0	10 1/10	0.505	
X2/X5/R24	RESISTOR	10	1% 1/10W	0603	Resistor
X2/X5/R23	RESISTOR	10	1% 1/10W	0603	Resistor
X2/X5/C5	CAPACITOR	4.7uF	10WVDC X7R	1812	Ceramic capacito
r					_
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	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
r					-
22/44					Monday May 19, 2015

X2/X5/C4	May 18, 15 11:14		Interf	face.bom.txt		Page 9/19
Table		CAPACITOR			0603	
X2/X5/R18						
X2/XS/Q6						
X2/X5/R18		CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
X2/XS/Q6		DEGLEROD	1.01-	10 1 /1057	0.603	Do and orbital
16.9						
X2/X5/Q5 NPM_TRANSISTOR MMBT2222A unknown UB unknown X2/X5/Q4 PNP_TRANSISTOR 499 l* 1/10W 0603 Resistor W2/X5/Q4 PNP_TRANSISTOR 0.1 F 1/10W 0603 Resistor W2/X5/Q5 CAPACITOR 0.1 F 1/10W 0603 Resistor W2/X5/R13 RESISTOR 32.4 k l* 1/10W 0603 Resistor W2/X5/R14 RESISTOR 32.4 k l* 1/10W 0603 Resistor W2/X5/R14 RESISTOR 32.4 l* 1/10W 0603 Resistor W2/X5/R14 RESISTOR 32.4 l* 1/10W 0603 Resistor W2/X5/R14 RESISTOR 10 l* 1/10W 0603 Resistor W2/X5/R15 RESISTOR 10 l* 1/10W 0603 Resistor W2/X5/R11 RESISTOR 10 l* 1/10W 0603 Resistor W2/X5/R11 RESISTOR 10 l* 1/10W 0603 Resistor W2/X5/R11 RESISTOR 4.7pF 100WWDC NPO 0603 Ceramic capacito W2/X5/R11 RESISTOR 4.7pF 100WWDC NPO 0603 Resistor W2/X5/R11 RESISTOR 4.7pF 100WWDC NPO 0603 Resistor W2/X5/R10 RESISTOR 49.9 l* 1/10W 0603 Resistor W2/X5/R1 RESISTOR 49.9 l* 1/10W 0603 Resistor W2/X5/R1 RESISTOR 49.9 l* 1/10W 0603 Resistor W2/X5/R2 RESISTOR 26.7k l* 1/10W 0603 Resistor W2/X5/R2 RESISTOR 26.7k l* 1/10W 0603 Resistor W2/X5/R2 RESISTOR 26.7k l* 1/10W 0603 Resistor W2/X5/R2 RESISTOR 34.0k l* 1/10W 0603 Resistor W2/X5/R3 RESISTOR 34.0k l* 1/10W 0603 Resistor W2/X5/R4 RESISTOR 30.1k l* 1/10W 0603 Resistor W2/X5/R4 RESISTOR 30.1k l* 1/10W 0603 Resistor W2/X5/R4 RESISTOR 75 l* 1/10W 0603 Resistor W2/X1/R4 RESISTOR 75 l* 1/10W 0603 R						
X2/X5/R15						
X2/X5/Q1		_				
X2/X5/R13				·		
X2/X5/R13						
X2/X5/R13		CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
X2/X5/R6		PFCTCTOP	1 k	1% 1/10W	0603	Pagistor
X2/X5/C6						
X2/X5/R15						
X2/X5/R1 RESISTOR 4.7pF 100WVDC NPO 0603 Resistor CAPACITOR 4.7pF 100WVDC NPO 0603 Ceramic capacito	r		_			_
X2/X5/C1						
x2/x5/Q1 NPN_TRANSISTOR			-			
X2/X5/Q1		CAPACITOR	4./pr	TOOMADC NEO	0603	Ceramic capacito
X2/X5/R7		NPN TRANSISTOR	MMBT222	2A unknown	UB	unknown
X2/X5/UI		<del></del>				
rational amplifier, SO8  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/C2 CAPACITOR 0.1uF 16WVDC X7R 0603 Ceramic capacito r X2/X5/R4 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 30.1k 1% 1/10W 0603 Resistor X2/X5/R6 RESISTOR 20k 1% 1/10W 0603 Resistor X2/X5/R6 RESISTOR 20k 1% 1/10W 0603 Resistor X2/X5/R9 RESISTOR 1c.9 1% 1/10W 0603 Resistor X2/X5/R9 RESISTOR 1c.9 1% 1/10W 0603 Resistor X2/X5/Q3 PNP_TRANSISTOR MMBT2907A unknown UB unknown X2/X5/Q2 PNP_TRANSISTOR 75 1% 1/10W 0603 Resistor X2/X11/R9 RESISTOR 75 1% 1/10W 0603 Resistor X2/X11/R6 RESISTOR 75 1% 1/10W 0603 Resistor X2/X11/R3 RESISTOR 75 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/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 Ceramic capacito r X2/X11/R5 RESISTOR 100 1% 1/10W 0603 Ceramic capacito r X2/X11/R5 RESISTOR 100 1% 1/10W 0603 Ceramic capacito r X2/X11/R5 RESISTOR 100 1% 1/10W 0603 Ceramic capacito r X2/X11/R5 RESISTOR 100 1% 1/10W 0603 Ceramic capacito r X2/X11/R5 RESISTOR 100 1% 1/10W 0603 Ceramic capacito r X2/X11/R5 RESISTOR 100 1% 1/10W 0603 Ceramic capacito r X2/X11/R5 RESISTOR 604k 1% 0603 Resistor		RESISTOR				Resistor
X2/X5/R8 RESISTOR 26.7k 1% 1/10W 0603 Resistor X2/X5/R1 RESISTOR 26.7k 1% 1/10W 0603 Resistor X2/X5/C2 CAPACITOR 0.1uF 16WVDC X7R 0603 Ceramic capacito  r 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 32.4k 1% 1/10W 0603 Resistor X2/X5/R6 RESISTOR 301k 1% 1/10W 0603 Resistor X2/X5/R6 RESISTOR 301k 1% 1/10W 0603 Resistor X2/X5/C3 CAPACITOR 1uF 25WVDC X7R 1812 Ceramic capacito  r X2/X5/R9 RESISTOR 16.9 1% 1/10W 0603 Resistor X2/X5/Q3 PNP_TRANSISTOR MMBT2907A unknown UB unknown X2/X5/Q3 PNP_TRANSISTOR MMBT2907A unknown UB unknown X2/X5/Q2 PNP_TRANSISTOR 75 1% 1/10W 0603 Resistor X2/X11/R9 RESISTOR 75 1% 1/10W 0603 Resistor X2/X11/R6 RESISTOR 100 1/10W 0/10W 0/10W 0/10W 0/10W 0/10W 0/10W 0/10W 0/10W			LM6142A	IM N/A	S08	generic dual ope
X2/X5/R2			1.01-	10 1 /1057	0.603	Do and orbital
X2/X5/C2 CAPACITOR 0.1uF 16WVDC X7R 0603 Resistor X2/X5/C2 CAPACITOR 0.1uF 16WVDC X7R 0603 Ceramic capacito  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 301k 1% 1/10W 0603 Resistor X2/X5/R6 RESISTOR 20k 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  Y 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/R8 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/R3 RESISTOR 75 1% 1/10W 0603 Resistor X2/X11/R3 RESISTOR 75 1% 1/10W 0603 Resistor X2/X11/R3 RESISTOR 75 1% 1/10W 0603 Resistor X2/X11/R4 RESISTOR 75 1% 1/10W 0603 Resistor X2/X11/R5 RESISTOR 100 1% 1/10W 0603 Resistor X2/X11/C3 CAPACITOR 22nF 50WVDC X7R 0603 Ceramic capacitor  X2/X11/R5 RESISTOR 100 1% 1/10W 0603 Resistor X2/X11/R5 RESISTOR 100 1% 1/10W 0603 Resistor X2/X11/C1 CAPACITOR 22nF 50WVDC X7R 0603 Ceramic capacitor  X2/X11/R5 RESISTOR 100 1% 1/10W 0603 Resistor X2/X11/C2 CAPACITOR 22nF 50WVDC X7R 0603 Ceramic capacitor  X2/X11/R5 RESISTOR 100 1% 1/10W 0603 Resistor X2/X11/R5 RESISTOR 56.2k 1% 0603 Resistor X2/X11/R5 RESISTOR 56.2k 1% 0603 Resistor X2/R2 RESISTOR 56.2k 1% 0603 Resistor						
X2/X5/C2						
x2/x5/R3						
X2/X5/R4						_
X2/X5/R5						
X2/X5/R6       RESISTOR       20k       1% 1/10W       0603       Resistor         X2/X5/C3       CAPACITOR       1uF       25WVDC X7R       1812       Ceramic capacito         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       75       1% 1/10W       0603       Resistor         X2/X11/R9       RESISTOR       75       1% 1/10W       0603       Resistor         X2/X11/R8       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 capacito         X2/X11/R5       RESISTOR       100       1% 1/10W       0603       Resistor         X2/X11/C1       CAPACITOR       22nF       50WVDC       X7R       0603       Ceramic capacito         x2/X11/R5       RESISTOR       100       1% 1/10W						
X2/X5/C3       CAPACITOR       luf       25WVDC       X7R       1812       Ceramic capacito         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/R8       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/C3       CAPACITOR       22nF       50WVDC       X7R       0603       Ceramic capacito         X2/X11/R4       RESISTOR       100       1% 1/10W       0603       Resistor         X2/X11/R5       RESISTOR       100       1% 1/10W       0603       Resistor         X2/X11/C1       CAPACITOR       22nF       50WVDC       X7R       0603       Ceramic capacito         x2/X11/U1       DG403       unknown       <						
T   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/R8   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/R3   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/C2   CAPACITOR   0.1uF   16WVDC   X7R   0603   Ceramic   Capacitor   X2/X11/R5   RESISTOR   100   1% 1/10W   0603   Resistor   X2/X11/C1   CAPACITOR   22nF   50WVDC   X7R   0603   Ceramic   Capacitor   X2/X11/C1   CAPACITOR   22nF   50WVDC   X7R   0603   Ceramic   Capacitor   X2/X11/C1   CAPACITOR   22nF   50WVDC   X7R   0603   Ceramic   Capacitor   CAPACITOR   CAPACITOR   22nF   50WVDC   X7R   0603   Ceramic   Capacitor   CAPACI				•		
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/R8       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/R3       RESISTOR       100       1% 1/10W       0603       Resistor         X2/X11/C3       CAPACITOR       22nF       50WVDC       X7R       0603       Ceramic capacito         r       X2/X11/C2       CAPACITOR       0.1uF       16WVDC       X7R       0603       Ceramic capacito         r       X2/X11/C1       CAPACITOR       22nF       50WVDC       X7R       0603       Ceramic capacito         r       X2/X11/C1       CAPACITOR       22nF       50WVDC       X7R       0603       Ceramic capacito         r       X2/X11/U1       DG403       unknown       unknown       S016       Dual SPDT s		CHILICITOR	Iui	250000 21710	1012	ceramic eapaeree
X2/X5/Q2       PNP_TRANSISTOR       MMBT2907A       unknown       UB       unknown         X2/X11/R9       RESISTOR       75       1% 1/10W       0603       Resistor         X2/X11/R8       RESISTOR       75       1% 1/10W       0603       Resistor         X2/X11/R7       RESISTOR       75       1% 1/10W       0603       Resistor         X2/X11/R6       RESISTOR       100       1% 1/10W       0603       Resistor         X2/X11/R3       RESISTOR       100       1% 1/10W       0603       Resistor         X2/X11/C3       CAPACITOR       22nF       50WVDC X7R       0603       Ceramic capacito         r       X2/X11/C2       CAPACITOR       0.1uF       16WVDC X7R       0603       Ceramic capacito         r       X2/X11/C1       CAPACITOR       22nF       50WVDC X7R       0603       Resistor         X2/X11/C1       CAPACITOR       22nF       50WVDC X7R       0603       Ceramic capacito         r       X2/X11/U1       DG403       unknown       unknown       unknown       SO16       Dual SPDT switch         X2/R1       RESISTOR       604k       1%       0603       Resistor         X2/R2       RESISTOR		RESISTOR				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$						
X2/X11/R8       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/R3       RESISTOR       100       1% 1/10W       0603       Resistor         X2/X11/C3       CAPACITOR       22nF       50WVDC X7R       0603       Ceramic capacito         r       X2/X11/R4       RESISTOR       100       1% 1/10W       0603       Resistor         X2/X11/C2       CAPACITOR       0.1uF       16WVDC X7R       0603       Ceramic capacito         r       X2/X11/C1       CAPACITOR       22nF       50WVDC X7R       0603       Ceramic capacito         r       X2/X11/C1       CAPACITOR       22nF       50WVDC X7R       0603       Ceramic capacito         r       X2/X11/U1       DG403       unknown       unknown       S016       Dual SPDT switch         X2/R1       RESISTOR       604k       1%       0603       Resistor         X2/R2       RESISTOR       56.2k       1%       0603       Resistor		<del></del>				
<pre>X2/X11/R7     RESISTOR</pre>						
<pre>X2/X11/R6     RESISTOR</pre>						
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$						
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$						
X2/X11/R4	X2/X11/C3					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			100	19 1 / 1 ∩ tut	0602	Pogiator
r X2/X11/R5 RESISTOR 100 1% 1/10W 0603 Resistor X2/X11/C1 CAPACITOR 22nF 50WVDC X7R 0603 Ceramic capacito r 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/X11/R5       RESISTOR       100       1% 1/10W       0603       Resistor         X2/X11/C1       CAPACITOR       22nF       50WVDC       X7R       0603       Ceramic capacito         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		CHEACTION	o. rur	TOMADO VIII	0000	ccramic capacito
X2/X11/C1 CAPACITOR 22nF 50WVDC X7R 0603 Ceramic capacito r		RESISTOR	100	1% 1/10W	0603	Resistor
X2/X11/U1 DG403 unknown unknown SO16 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		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		DCA03	unlenove	2016 Dual an	DT 05.55 + ~	h
<pre>X2/R1 RESISTOR</pre>						11
X2/R2 RESISTOR 200k 1% 0603 Resistor						
X2/C4 CAPACITOR 10pF 100WVDC NP0 0603 Ceramic capacitor	X2/R2 RESISTO		1%	0603 Resisto	r	
	X2/C4 CAPACIT	OR 10pF	100WVDC	NPO 0603	Ceramic	capacitor

May 18,	15 11:14			Interfa	ce.bom	ı.txt		Page 10/19
X2/R8	RESISTOR		21.5	1% 1/10W	I	0603	Resistor	•
X2/C5	CAPACITOR		22nF	50WVDC X	7R	0603	Ceramic	capacitor
X2/R6	RESISTOR		49.9	1% 1/10W	I	0603	Resistor	:
X2/C3	CAPACITOR		22nF	50WVDC X	7R	0603	Ceramic	capacitor
X2/U1	DUAL_OPAMP	)	LM6142AI	M	N/A	S08	generic	dual operational
amplifi	er, SO8						_	_
X2/R7	RESISTOR		604k	1%	0603	Resis	tor	
X2/R3	RESISTOR		56.2k	1%	0603	Resis	tor	
X2/R4	RESISTOR		200k	1%	0603	Resis	tor	
	CAPACITOR		10pF	100WVDC		0603		capacitor
	RESISTOR		21.5	1% 1/10W		0603	Resistor	
· ·	CAPACITOR		22nF	50WVDC X		0603		capacitor
X1/X14/R		SISTOR		75	1% 1/10		0603	Resistor
X1/X14/R		SISTOR		75	1% 1/10		0603	Resistor
X1/X14/R		SISTOR		75	1% 1/10		0603	Resistor
X1/X14/R		SISTOR		75	1% 1/10		0603	Resistor
X1/X14/R		SISTOR		100	1% 1/10		0603	Resistor
X1/X14/C r		APACITO:	R	22nF	50WVDC		0603	Ceramic capacito
X1/X14/R		SISTOR		100	1% 1/10		0603	Resistor
x1/x14/C	!2 CA	PACITO:	R	0.1uF	16WVDC	X7R	0603	Ceramic capacito
X1/X14/R	.5 RE	SISTOR		100	1% 1/10	M	0603	Resistor
X1/X14/C	:1 CA	APACITO:	R	22nF	50WVDC	X7R	0603	Ceramic capacito
X1/X14/U				unknown			SPDT switch	
X1/X13/R		SISTOR		75	1% 1/10		0603	Resistor
X1/X13/R		SISTOR		75	1% 1/10		0603	Resistor
X1/X13/R		SISTOR		75	1% 1/10		0603	Resistor
X1/X13/R		SISTOR		75	1% 1/10		0603	Resistor
X1/X13/R		SISTOR		100	1% 1/10		0603	Resistor
X1/X13/C	!3 CA	APACITO:	R	22nF	50WVDC	X7R	0603	Ceramic capacito
X1/X13/R	.4 RE	SISTOR		100	1% 1/10	M	0603	Resistor
X1/X13/C	!2 CA	PACITO:	R	0.1uF	16WVDC	X7R	0603	Ceramic capacito
X1/X13/R	5 RE	SISTOR		100	1% 1/10	M	0603	Resistor
X1/X13/C		PACITO:		22nF	50WVDC		0603	Ceramic capacito
r X1/X13/U	r1 DC	403 ·	unknown	unknown	2016	Dual	SPDT switch	
X1/X13/0 X1/X12/R		SISTOR		75	1% 1/10		0603	Resistor
X1/X12/R X1/X12/R		SISTOR		75 75	1% 1/10		0603	Resistor
X1/X12/R X1/X12/R		SISTOR		75 75	1% 1/10		0603	Resistor
X1/X12/R X1/X12/R		SISTOR		75 75	1% 1/10		0603	Resistor
X1/X12/R X1/X12/R		SISTOR		100	1% 1/10		0603	Resistor
X1/X12/C		PACITO:		22nF	50WVDC		0603	Ceramic capacito
r								-
X1/X12/R		SISTOR		100	1% 1/10		0603	Resistor
X1/X12/C r		APACITO:	R	0.1uF	16WVDC	X'/R	0603	Ceramic capacito
X1/X12/R		SISTOR		100	1% 1/10		0603	Resistor
X1/X12/C	CA CA	APACITO:	R	22nF	50WVDC	x'/R	0603	Ceramic capacito
X1/X12/U				unknown			SPDT switch	
	RESISTOR		3.74k	1% 1/10W		0603	Resistor	
	RESISTOR		3.74k	1% 1/10W		0603	Resistor	
	CAPACITOR		1uF	10WVDC X		0805		capacitor
	RESISTOR		330	5% 0.15W		0805	Resistor	
X1/C6	CAPACITOR		0.1uF	16WVDC X	T/R	0603	Ceramic	capacitor

May 18, 15 11:14		Interfa	ace.bor	n.txt		Page 11/19
X1/C32 CAPACITO	OR 22nF	50WVDC 2	 ζ7R	0603	Ceramic	capacitor
X1/U3 MAX308CS		unknown			analog r	
X1/C31 CAPACITO		50WVDC 2		0603		capacitor
X1/U2 AD5328	unknown unknown				001020	Caracia Caracia
X1/X1/U1	DUAL_OPAMP	LT2078A		N/A	S08	unknown
X1/X1/R21	RESISTOR	1	-23 1% 1/10		0603	Resistor
X1/X1/R22	RESISTOR	1	1% 1/10		0603	Resistor
X1/X1/R24	RESISTOR	49.9	1% 1/10		0603	Resistor
X1/X1/R23	RESISTOR	49.9	1% 1/10		0603	Resistor
X1/X1/C11	CAPACITOR	22nF	50WVDC		0603	Ceramic capacito
r	CILITICITOR	22111	3011120	21 / 10	0003	ceramic capacito
X1/X1/C12 r	CAPACITOR	0.1uF	50WVDC	X7R	0805	Ceramic capacito
x1/x1/C2 r	CAPACITOR	1.0uF	10WVDC	X7R	0805	Ceramic capacito
X1/X1/C13 r	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% 1/10	)W	0603	Resistor
X1/X1/R10	RESISTOR	604k	1% 1/10		0603	Resistor
X1/X1/C1	CAPACITOR	0.22uF	10WVDC		0603	Ceramic capacito
r X1/X1/R12	RESISTOR	3.74k	1% 1/10		0603	Resistor
X1/X1/Q2		unknown		unknown	0.500	
X1/X1/R16	RESISTOR	4.99k	_1% 1/10		0603	Resistor
X1/X1/Q3	PNP_TRANSISTOR	MMBT2907		unknown		unknown
X1/X1/R2	RESISTOR	301k	1% 1/10		0603	Resistor
X1/X1/C6 r	CAPACITOR	680pF	50WVDC	NP0	0603	Ceramic capacito
X1/X1/R6	RESISTOR	4.99k	1% 1/10	)W	0603	Resistor
X1/X1/Q1	LM195H unknown	unknown	TO39	unknown		
X1/X1/R17	RESISTOR	10k	1% 1/10	)W	0603	Resistor
X1/X1/R7	RESISTOR	10k	1% 1/10	)W	0603	Resistor
X1/X1/C5 r	CAPACITOR	680pF	50WVDC	NP0	0603	Ceramic capacito
X1/X1/U2 rational amplif	DUAL_OPAMP	LM6142A	ĽΜ	N/A	S08	generic dual ope
X1/X1/C4   r	CAPACITOR	22nF	50WVDC	X7R	0603	Ceramic capacito
X1/X1/C3 r	CAPACITOR	22nF	50WVDC	X7R	0603	Ceramic capacito
X1/X1/R15	RESISTOR	10k	1% 1/10	) W	0603	Resistor
X1/X1/R13   X1/X1/R5	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/R13 X1/X1/R14	RESISTOR	301k	1% 1/10		0603	Resistor
X1/X1/R14 X1/X1/R1	RESISTOR	54.9k	1% 1/10		0603	Resistor
X1/X1/R1 X1/X1/R3	RESISTOR	54.9k	1% 1/10		0603	Resistor
X1/X1/R3 X1/X1/R4	RESISTOR	301k	1% 1/10		0603	Resistor
X1/X1/K4 X1/X2/C2	CAPACITOR	0.1uF	16WVDC		0603	Ceramic capacito
r	0111 110 1 1 010	J ur	10WVDC	22 / 10		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 r	CAPACITOR	1uF	25WVDC	X7R	1812	Ceramic capacito
x1/x2/C4	CAPACITOR	1uF	25WVDC	X7R	1812	Ceramic capacito

May 18, 15 11:14		Interfa	ace.bom.txt		Page 12/19
r X1/X2/C6	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
r					
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/X2/01	PMOS_TRANSISTOR				generic P channe
	r (enhancement ty		3.2.2.2.0 ,,,,		901102 20 2 0110111110
X1/X2/X2/Q2	NMOS_TRANSISTOR		N unknown	TO252AA	generic N channe
	r (enhancement ty		ammin wi	10202111	generie it ename
X1/X2/X2/R6	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X1/X2/X2/R5	RESISTOR	3.74k		0603	Resistor
X1/X2/X2/R3 X1/X2/X2/R4		3.74k	1% 1/10W	0603	Resistor
	RESISTOR	3.74k	•	0603	
X1/X2/X2/R3			1% 1/10W		Resistor
X1/X2/X2/R7	RESISTOR	200	1% 1/10W	0603	Resistor
X1/X2/X2/Q4	NPN_TRANSISTOR				unknown
X1/X2/X2/Q3	PNP_TRANSISTOR	MMBT290			unknown
X1/X2/X2/R2	RESISTOR	1	1% 1W 2512		
X1/X2/X2/R1	RESISTOR	1	1% 1W 2512		
X1/X2/X1/Q1	PMOS_TRANSISTOR	IRFR9120	ON unknown	TO252AA	generic P channe
1 MOS transisto	r (enhancement ty	ype)			
X1/X2/X1/Q2	NMOS_TRANSISTOR	IRFR2201	N unknown	TO252AA	generic N channe
1 MOS transisto	r (enhancement ty	уре)			
X1/X2/X1/R6	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X1/X2/X1/R5	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X1/X2/X1/R4	RESISTOR RESISTOR	3.74k	1% 1/10W	0603	Resistor
X1/X2/X1/R3	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X1/X2/X1/R7	RESISTOR	200	1% 1/10W	0603	Resistor
X1/X2/X1/Q4	NPN_TRANSISTOR	MMBT2222			unknown
X1/X2/X1/Q4 X1/X2/X1/Q3	PNP_TRANSISTOR	MMBT290			unknown
X1/X2/X1/Q3 X1/X2/X1/R2	RESISTOR	1	1% 1W 2512	Resisto	
	RESISTOR	1		Resisto	
X1/X2/X1/R1			1% 1W 2512 1% 1/10W		
X1/X2/R3	RESISTOR	100		0603	Resistor Resistor
X1/X2/R4	RESISTOR		1% 1/10W		
X1/X2/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X2/U1		unknown		DT switcl	
X1/X3/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r x1 /x2 /g2		0.0- =	E OUT TO C TIES	0.000	
X1/X3/C3	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r					
X1/X3/C1	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r					
X1/X3/C7	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
r					
X1/X3/C4	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
r					
X1/X3/C6	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
r					
X1/X3/C5	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
r					-
X1/X3/R2	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X1/X3/R1	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X1/X3/R7	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X1/X3/R6	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X1/X3/X2/Q1	PMOS_TRANSISTOR				generic P channe
	r (enhancement ty		OTA CITIZITOWII	10232AA	action to charmle
I HOD CLUIISIBLO.	· (Cimanociient C)	, PC /			

May 18, 15 11:14		Interfa	ace	.bor	n.txt		Page 13/19
X1/X3/X2/Q2	NMOS TRANSISTOR	TRFR2201	N.		unknown	TO252AA	generic N channe
	(enhancement ty	vpe)				_ 0 _ 0 _ 1 11 1	5-2-2-2 1, 011011110
X1/X3/X2/R6	RESISTOR		1 %	1/10	) W	0603	Resistor
X1/X3/X2/R5		3.74k				0603	Resistor
X1/X3/X2/R4		3.74k				0603	Resistor
X1/X3/X2/R3	RESISTOR			1/10		0603	Resistor
X1/X3/X2/R7	RESISTOR			1/10		0603	Resistor
X1/X3/X2/Q4	NPN_TRANSISTOR			-/-	unknown		unknown
X1/X3/X2/Q3	PNP_TRANSISTOR	MMBT290			unknown		unknown
X1/X3/X2/R2	RESISTOR	1		1W	2512	Resistor	
X1/X3/X2/R1	RESISTOR	1		1W	2512	Resistor	
X1/X3/X1/Q1	PMOS_TRANSISTOR						generic P channe
	c (enhancement ty		011		GIIIIII WII	10232111	generie i ename
X1/X3/X1/Q2	NMOS_TRANSISTOR		N		unknown	TO252AA	generic N channe
	c (enhancement ty		•		GIIIIII WII	10232111	generie ii ename
X1/X3/X1/R6	RESISTOR		1 %	1/10	)W	0603	Resistor
X1/X3/X1/R5	RESISTOR			1/10		0603	Resistor
X1/X3/X1/R4				1/10		0603	Resistor
X1/X3/X1/R3	RESISTOR	3.74k		1/10		0603	Resistor
X1/X3/X1/R7	RESISTOR	200		1/10		0603	Resistor
X1/X3/X1/Q4	NPN_TRANSISTOR			-/-	unknown		unknown
X1/X3/X1/Q1 X1/X3/X1/Q3	PNP_TRANSISTOR	MMBT290			unknown		unknown
X1/X3/X1/Q3 X1/X3/X1/R2	RESISTOR	1			2512	Resistor	
X1/X3/X1/R2 X1/X3/X1/R1	RESISTOR	1			2512	Resistor	
X1/X3/X1/K1 X1/X3/R3	RESISTOR	100		$\frac{1}{1}/10$		0603	Resistor
X1/X3/R3 X1/X3/R4	RESISTOR	100		1/10		0603	
X1/X3/R4 X1/X3/R5	RESISTOR	100		1/10		0603 0603	Resistor
X1/X3/K3 X1/X3/U1	DG403 unknown					OT switch	
X1/X3/01 X1/X4/C2	CAPACITOR	0.1uF			X7R	0603	Ceramic capacito
r	CAPACITOR	U.Iur	ΤΟ!	NVDC	Λ/K	0003	Ceramic Capacito
X1/X4/C3	CAPACITOR	22nF	501	WVDC	X7R	0603	Ceramic capacito
r   X1/X4/C1	CAPACITOR	22nF	501	WVDC	X7R	0603	Ceramic capacito
r		_			_		
X1/X4/C7 r	CAPACITOR	1uF	251	WVDC	X7R	1812	Ceramic capacito
X1/X4/C4	CAPACITOR	1uF	251	WVDC	X7R	1812	Ceramic capacito
r	G1-D1-G1-T0-D	1 -	0.5-	~	***	1010	_
X1/X4/C6 r	CAPACITOR	1uF	251	WVDC	X'/R	1812	Ceramic capacito
X1/X4/C5	CAPACITOR	1uF	251	WVDC	X7R	1812	Ceramic capacito
X1/X4/R2	RESISTOR	3.74k	1 %	1/10	) [W]	0603	Resistor
X1/X4/R2 X1/X4/R1	RESISTOR	3.74k		1/10		0603	Resistor
X1/X4/R7	RESISTOR	3.74k		1/10		0603	Resistor
X1/X4/R7 X1/X4/R6	RESISTOR	3.74k		1/10		0603	Resistor
X1/X4/X0 X1/X4/X2/Q1	PMOS_TRANSISTOR			T/ T(			generic P channe
	c (enhancement ty		OTA		UIIVIIOWII	10232AA	actients a citatille
X1/X4/X2/Q2	NMOS_TRANSISTOR	IRFR2201	N		unknown	TO252AA	generic N channe
	c (enhancement ty						_
X1/X4/X2/R6	RESISTOR	3.74k		1/10		0603	Resistor
X1/X4/X2/R5	RESISTOR	3.74k		1/10		0603	Resistor
X1/X4/X2/R4	RESISTOR	3.74k		1/10		0603	Resistor
X1/X4/X2/R3	RESISTOR	3.74k		1/10		0603	Resistor
X1/X4/X2/R7	RESISTOR	200		1/10		0603	Resistor
X1/X4/X2/Q4	NPN_TRANSISTOR	MMBT2222			unknown		unknown
X1/X4/X2/Q3	PNP_TRANSISTOR	MMBT290			unknown		unknown
X1/X4/X2/R2	RESISTOR	1		1W	2512	Resistor	
X1/X4/X2/R1	RESISTOR	1	1%	1W	2512	Resistor	<u>r</u>

May 18, 15 11:14		Interfa	ace.bom.txt		Page 14/19
X1/X4/X1/Q1	PMOS_TRANSISTOR	IRFR9120	ON unknown	TO252AA	generic P channe
1 MOS transisto	r (enhancement ty				
X1/X4/X1/Q2	NMOS_TRANSISTOR		N unknown	TO252AA	generic N channe
	r (enhancement ty				
X1/X4/X1/R6	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X1/X4/X1/R5	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X1/X4/X1/R4	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X1/X4/X1/R3	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X1/X4/X1/R7	RESISTOR	200	1% 1/10W	0603	Resistor
X1/X4/X1/Q4	NPN_TRANSISTOR	MMBT2222			unknown
X1/X4/X1/Q3	PNP_TRANSISTOR	MMBT290			unknown
X1/X4/X1/R2	RESISTOR	1	1% 1W 2512	Resistor	
X1/X4/X1/R1 X1/X4/R3	RESISTOR	100	1% 1W 2512 1% 1/10W	Resistor 0603	Resistor
X1/X4/R3 X1/X4/R4	RESISTOR RESISTOR	100	1% 1/10W 1% 1/10W	0603	Resistor
X1/X4/R5	RESISTOR	100	1% 1/10W 1% 1/10W	0603	Resistor
X1/X4/K3 X1/X4/U1		unknown		DT switcl	
X1/X10/C12	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r	CALACITOR	22111	JOWVDC X/IC	0005	ceramic capacito
X1/X10/C11	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r w1 (w10 (D04	DEGEGES	1.0	10 1/10	0.603	
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
r					_
X1/X10/R18	RESISTOR	10k	1% 1/10W	0603	Resistor
X1/X10/Q6	NPN_TRANSISTOR	MMBT2222			unknown
X1/X10/R19	RESISTOR	16.9	1% 1/10W	0603	Resistor
X1/X10/Q5	NPN_TRANSISTOR	MMBT2222			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	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	CAPACITOR	4.7pF	100WVDC NP0	0603	Ceramic capacito
r		_			_
X1/X10/R15	RESISTOR	301k	1% 1/10W	0603	Resistor
X1/X10/R11	RESISTOR	10 4 7pF	1% 1/10W	0603	Resistor
X1/X10/C1  r	CAPACITOR	4.7pF	100WVDC NP0	0603	Ceramic capacito
X1/X10/Q1	NPN_TRANSISTOR	MMBT2222	2A unknown	UB	unknown
X1/X10/R7	RESISTOR	499	1% 1/10W	0603	Resistor
X1/X10/R10	RESISTOR	49.9	1% 1/10W	0603	Resistor
X1/X10/U1	DUAL_OPAMP	LM6142A	IM N/A	S08	generic dual ope
rational amplif					_
X1/X10/R8	RESISTOR	10k	1% 1/10W	0603	Resistor

May 18, 15 11:14		Interfa	ace.bom.txt		Page 15/19
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	16WVDC X7R	0603	Ceramic capacito
r		0 <b>.</b> 1 a 1	100000 21710	0003	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/R4 X1/X10/R5	RESISTOR	301k	1% 1/10W	0603	Resistor
X1/X10/R5 X1/X10/R6	RESISTOR	20k	1% 1/10W 1% 1/10W	0603	Resistor
X1/X10/R0 X1/X10/C3	CAPACITOR	luF	25WVDC X7R	1812	Ceramic capacito
	CAPACITOR	lur	ZSWVDC X/R	1012	Ceramic Capacito
r   X1/X10/R9	RESISTOR	16.9	1% 1/10W	0603	Resistor
X1/X10/K9 X1/X10/Q3	PNP_TRANSISTOR	MMBT290			unknown
X1/X10/Q3 X1/X10/Q2	PNP_TRANSISTOR	MMBT290			unknown
X1/X9/R9	RESISTOR	75 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	22nF	50WVDC X7R	0603	Ceramic capacito
r					
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 SI	PDT switc	eh .
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	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r					-
X1/X8/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X8/C1	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r	01111011011		33,,,,23		ooramie carecte
X1/X8/U1	DG403 unknown	unknown	SO16 Dual SI	PDT 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	RESISTOR	75 75	1% 1/10W 1% 1/10W	0603	Resistor
X1/X7/R3	RESISTOR	100	1% 1/10W 1% 1/10W	0603	Resistor
X1/X7/R3 X1/X7/C3	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r	CULUCTION	~ ~ 11T.	JOWADC VIV	0003	ccramic capacito
X1/X7/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X7/R4 X1/X7/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r XI/X//C2	CAPACIIUR	U.IUF	TOMADC VIK	0003	Ceramic Capacito
r   X1/X7/R5	DFCTCTAD	100	1% 1/10W	0603	Resistor
	RESISTOR				
X1/X7/C1	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
Y	DC402	1120 len 01	CO16 Dec 1 CT	DT ~	h
X1/X7/U1		unknown		PDT switc	
X1/X6/R9	RESISTOR	75 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

May 18, 15 11:14		Page 16/19			
	DEGE GEOD		ace.bom.txt	0.602	
X1/X6/R3	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X6/C3	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r					_
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
r					_
X1/X6/U1		unknown			
X1/X5/C12	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r			5.0 e	0.500	
X1/X5/C11	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r		1.0	10 1 /10	0.500	
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	DEGLOSS	CO 43	10 1/10	0.600	
X1/X5/R22	RESISTOR	604k	1% 1/10W	0603	Resistor
X1/X5/R21	RESISTOR	604k	1% 1/10W	0603	Resistor
X1/X5/C10	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
r			05		
X1/X5/C9	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
r	a a	0 1 -	16	0.500	~
X1/X5/C4	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r			40 4 40	0.500	
X1/X5/R20	RESISTOR	10_	1% 1/10W	0603	Resistor
X1/X5/C8	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
r	DEGE GEOD	1.01	10 1 /10**	0.602	<b>.</b>
X1/X5/R18	RESISTOR	10k	1% 1/10W	0603	Resistor
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	MMBT290			unknown
X1/X5/C7	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
Y1 /YF /D12	D D G T G M O D	11_	10. 1 /101.	0.00	Danishas
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
r v1/v5/D15	DECICAOD	2011-	19 1 / 1 ∩ t.ī	0602	Pogiator
X1/X5/R15	RESISTOR	301k	1% 1/10W	0603	Resistor
X1/X5/R11	RESISTOR	10	1% 1/10W	0603	Resistor
X1/X5/C1	CAPACITOR	4.7pF	100WVDC NP0	0603	Ceramic capacito
r v1/v5/01	NIDNI TIDANICI COLOD		07	IID	unlengum
X1/X5/Q1	NPN_TRANSISTOR	MMBT222			unknown
X1/X5/R7	RESISTOR	499	1% 1/10W	0603	Resistor
X1/X5/R10 X1/X5/II1	RESISTOR	49.9	1% 1/10W	0603	Resistor
X1/X5/U1  rational amplif	DUAL_OPAMP	LM6142A	IM N/A	S08	generic dual ope
X1/X5/R8	RESISTOR	10k	1% 1/10W	0603	Resistor
X1/X5/R8 X1/X5/R2		10k 26.7k	1% 1/10W 1% 1/10W	0603	Resistor
X1/X5/R2   X1/X5/R1	RESISTOR	26.7k 34.0k	1% 1/10W 1% 1/10W	0603	Resistor Resistor
	RESISTOR				
X1/X5/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r   v1 /vE /D2	DECTOMOD	11-	10, 1/101.7	0603	Dogiator
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

					· · · ·	- 11			
May 18, 15 11:14				Interface.bom.txt				Page 17/19	
X1/X5/R		RESISTO		20k	1% 1/10		0603	Resistor	
x1/x5/C	3	CAPACITO	JK	1uF	25WVDC	X/K	1812	Ceramic capacito	
X1/X5/R	9	RESISTO	3	16.9	1% 1/10	W	0603	Resistor	
X1/X5/Q		PNP_TRAI		MMBT290		unknown		unknown	
X1/X5/Q		PNP_TRAI	NSISTOR	MMBT290		unknown		unknown	
X1/X11/1		RESISTO		75	1% 1/10		0603	Resistor	
X1/X11/1		RESISTO		75 75	1% 1/10 1% 1/10		0603	Resistor	
X1/X11/1 X1/X11/1		RESISTOR RESISTOR		75 75	1% 1/10		0603 0603	Resistor Resistor	
X1/X11/1 X1/X11/1		RESISTO		100	1% 1/10		0603	Resistor	
X1/X11/0		CAPACITO		22nF	50WVDC		0603	Ceramic capacito	
r								_	
X1/X11/1		RESISTO		100	1% 1/10		0603	Resistor	
X1/X11/0	C2	CAPACITO	OR	0.1uF	16WVDC	X'/R	0603	Ceramic capacito	
r   X1/X11/1	R 5	RESISTO	₹	100	1% 1/10	W	0603	Resistor	
X1/X11/		CAPACIT		22nF	50WVDC		0603	Ceramic capacito	
r								_	
X1/X11/1		DG403	unknown				OT switc	h	
X1/R9	RESISTO		604k	1%	0603	Resisto			
X1/R1 X1/R2	RESISTOR RESISTOR		56.2k 200k	1% 1%	0603 0603	Resistor Resistor			
	CAPACIT(		200K 10pF	100WVD0		0603		capacitor	
X1/R8	RESISTOR		21.5	1% 1/10		0603	Resisto		
X1/C5	CAPACITO		22nF	50WVDC	X7R	0603	Ceramic	capacitor	
X1/R6	RESISTO		49.9	1% 1/10		0603	Resisto		
X1/C3	CAPACITO		22nF	50WVDC		0603		capacitor	
X1/U1	DUAL_OPA	AMP	LM6142A	LM	N/A	S08	generic	dual operational	
X1/R7	RESISTO	3	604k	1%	0603	Resisto	r		
X1/R3	RESISTOR		56.2k	1%	0603	Resisto			
X1/R4	RESISTO		200k	1%	0603	Resisto			
X1/C1	CAPACITO		10pF	100WVDC		0603		capacitor	
X1/R5	RESISTO		21.5	1% 1/10		0603	Resisto		
X1/C2 C48	CAPACITO	OR ED_CAPAC:	22nF	50WVDC 47uF	X7R 15WVDC	0603 2711		capacitor	
C48	CAPACIT(		4.7uF	10WVDC		1812		m capacitor capacitor	
C46	CAPACITO		1.7ar	10WVDC		0805		capacitor	
C45	CAPACITO		0.1uF	16WVDC		0603		capacitor	
C44	CAPACITO		0.1uF	16WVDC		0603		capacitor	
C43	CAPACITO		0.1uF	16WVDC		0603		capacitor	
C42 C41	CAPACITO		0.1uF	16WVDC		0603		capacitor	
C41	CAPACITO CAPACITO		4.7uF 4.7uF	10WVDC 10WVDC		1812 1812		capacitor capacitor	
C39	CAPACITO		1.7ar	10WVDC		0805		capacitor	
C38	CAPACIT		0.1uF	16WVDC		0603		capacitor	
C37	CAPACITO		0.1uF	16WVDC	X7R	0603	Ceramic	capacitor	
C36	CAPACITO		0.1uF	16WVDC		0603		capacitor	
C35	CAPACITO		0.1uF	16WVDC		0603		capacitor	
C34 C33	CAPACITO	OR ED_CAPAC:	4.7uF	10WVDC 47uF	X7R 15WVDC	1812 2711		capacitor m capacitor	
C32	CAPACIT(	<del></del>	4.7uF	10WVDC		1812		capacitor	
C31	CAPACIT		luF	10WVDC		0805		capacitor	
C30	CAPACITO		0.1uF	16WVDC	X7R	0603		capacitor	
C29	CAPACITO		0.1uF	16WVDC		0603		capacitor	
C28	CAPACITO		0.1uF	16WVDC		0603		capacitor	
C27 C26	CAPACITO		0.1uF	16WVDC		0603		capacitor	
C20	CAPACITO	JK	4.7uF	10WVDC	A/K	1812	ceramic	capacitor	

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C56 CAPACITOR 0.1uF 16WVDC X7R 0603 Ceramic capacitor C55 POLARIZED_CAPACITOR 220uF 6WVDC 2915 Tantalum capacitor C54 POLARIZED_CAPACITOR 47uF 15WVDC 2711 Tantalum capacitor C53 CAPACITOR 4.7uF 10WVDC X7R 1812 Ceramic capacitor	
C54 POLARIZED_CAPACITOR 47uF 15WVDC 2711 Tantalum capacitor C53 CAPACITOR 4.7uF 10WVDC X7R 1812 Ceramic capacitor	
C54 POLARIZED_CAPACITOR 47uF 15WVDC 2711 Tantalum capacitor C53 CAPACITOR 4.7uF 10WVDC X7R 1812 Ceramic capacitor	•
<u> </u>	<u>.</u>
GEO CADACTEOD 19E 10WIDG YZD 000E Gomenia constitution	
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 unknown S016 8 input analog mux	
C84 CAPACITOR 22nF 50WVDC X7R 0603 Ceramic capacitor	
R65 RESISTOR 121k 1% 0603 Resistor	
R66 RESISTOR 121k 1% 0603 Resistor	
R63 RESISTOR 121k 1% 0603 Resistor	
R64 RESISTOR 121k 1% 0603 Resistor	
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 unknown MSOP10 ADC	
C94 CAPACITOR 10pF 100WVDC NP0 0603 Ceramic capacitor	
R59 RESISTOR 604k 1% 0603 Resistor	
R58 RESISTOR 604k 1% 0603 Resistor	
R57 RESISTOR 604k 1% 0603 Resistor	
R56 RESISTOR 604k 1% 0603 Resistor	
R55 RESISTOR 604k 1% 0603 Resistor	
R54 RESISTOR 604k 1% 0603 Resistor	
R53 RESISTOR 604k 1% 0603 Resistor	
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 MAX308CSE+ unknown unknown S016 8 input analog mux	
C71 CAPACITOR 22nF 50WVDC X7R 0603 Ceramic capacitor	
R5 RESISTOR 121k 1% 0603 Resistor	
U6 DUAL_OPAMP LT2078AIS8 N/A S08 unknown	
U5 DUAL_OPAMP LT2078AIS8 N/A SO8 unknown	

May 18,	15 11:14		Interfa	ce.bom	ı.txt		Page 19/19
C63	CAPACITOR	0.1uF	16WVDC X	7R	0603	Ceramic	capacitor
R7	RESISTOR	51.1	1% 1/10W	T	0603	Resistor	
C61	CAPACITOR	22nF	50WVDC X	7R	0603	Ceramic	capacitor
C60	CAPACITOR	0.1uF	16WVDC X	.7R	0603		capacitor
R3	RESISTOR	51.1	1% 1/10W	1	0603	Resistor	
R1	RESISTOR	51.1	1% 1/10W		0603	Resistor	r
R14	RESISTOR	8.87k		0603	Resistor	<u>-</u>	
R15	RESISTOR	71.5k		0603	Resistor	2	
R13	RESISTOR	140k		0603	Resistor	2	
R4	RESISTOR	121k		0603	Resistor		
R2	RESISTOR	121k		0603	Resistor	2	
C88	CAPACITOR	0.1uF Di		16WVDC		0603	Ceramic capacito
r							
U8	OSC KC3225A	60.0000C	3GE00	unknown	KYOCERA-	-KC3225A-	-C3 Surface
	scillator						.5 =
C96	CAPACITOR	0.1uF	16WVDC X	7R	0603	Ceramic	capacitor
C95	CAPACITOR	0.1uF	16WVDC X		0603		capacitor
R99	RESISTOR	100	5% 1/10W		0603	Resistor	
R98	RESISTOR	100	5% 1/10W		0603	Resistor	
U12	MAX9180 unknown			unknown			_
U11	MAX9180 unknown			unknown			
Js	StackConn		unknown		00-201-39	900	Stacking connect
or	20001200111	0.1111110	0.222222		00 202 03		
R71	RESISTOR	4.99k	1%	0603	Resistor	^	
C8	CAPACITOR	0.1uF	16WVDC X		0603		capacitor
U88	2104D60M0000YAX		unknown				scillator
R84	RESISTOR	DNP	5% 1/10W		0603	Resistor	
J8			HEADER16		unknown	11001001	_
R83	RESISTOR	DNP	5% 1/10W		0603	Resistor	r
R82	RESISTOR	DNP	5% 1/10W		0603	Resistor	
R81	RESISTOR	DNP	5% 1/10W		0603	Resistor	
R80	RESISTOR	DNP	5% 1/10W		0603	Resistor	
R91	RESISTOR	4.7k	5% 1/10W		0603	Resistor	
R87	RESISTOR	4.7k	5% 1/10W		0603	Resistor	
R88	RESISTOR	1k	5% 1/10W		0603	Resistor	
R89	RESISTOR	1k	5% 1/10W		0603	Resistor	
R90	RESISTOR	1k	5% 1/10W		0603	Resistor	
J6		unknown		unknown	3005	11001001	_
C99	CAPACITOR	0.1uF	16WVDC X		0603	Ceramic	capacitor
U9	DS26LV32A		unknown		unknown	CCTAINTC	Capacitor
J9	HEADER14	87832-1			HEADER14	1SMT2MM	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	
U4		-1FGG4840		unknown		unknown	_
	AC/AJUI	11 001010	_	WIIIZIIO WII	D011101	CITIZITO WII	

May 18, 15 11:14 Table of Content Pa							
Table of Contents							
1 Booster.ps sheets	1 to	1 ( 1) pages 1-	1 lines				
2 ParallelPair.ps sheets	1 to	2 ( 2) pages 1-	2 1 lines				
3 ParallelReg.ps sheets	2 to	3 ( 2) pages 2-	3 1 lines				
4 SerialDriver.ps sheets	3 to	4 ( 2) pages 3-	4 1 lines				
5 SerialRegulator.ps sheets	4 to	5 ( 2) pages 4-	5 1 lines				
6 DriverSet.1.ps sheets	5 to	6 ( 2) pages 5-	6 1 lines				
7 DriverSet.2.ps sheets	6 to	7 ( 2) pages 6-	7 1 lines				
8 DriverSet.3.ps sheets	7 to	8 ( 2) pages 7-	8 1 lines				
9 DriverSet.4.ps sheets	8 to	9 ( 2) pages 8-	9 1 lines				
10 DriverSet.5.ps sheets	9 to	10 ( 2) pages 9-	10 1 lines				
11 ArtixPower.ps sheets	10 to	11 ( 2) pages 10-	11 1 lines				
12 Interface.1.ps sheets	11 to	12 ( 2) pages 11-	12 1 lines				
13 Interface.2.ps sheets	12 to	13 ( 2) pages 12-	13 1 lines				
14 Interface.3.ps sheets	13 to	14 ( 2) pages 13-	14 1 lines				
15 Interface.4.ps sheets	14 to	15 ( 2) pages 14-	15 1 lines				
16 Interface.5.ps sheets	15 to	16 ( 2) pages 15-	16 1 lines				
17 Interface.6.ps sheets	16 to	17 ( 2) pages 16-	17 1 lines				
18 Interface.7.ps sheets	17 to	, , , ,	18 1 lines				
19 Interface.J8.txt sheets	19 to	19 ( 1) pages 19-					
20 Interface.U4.txt sheets	20 to	24 ( 5) pages 20-	24 288 lines				
21 Interface.bom.txt sheets	25 to	43 (19) pages 25-	43 912 lines				