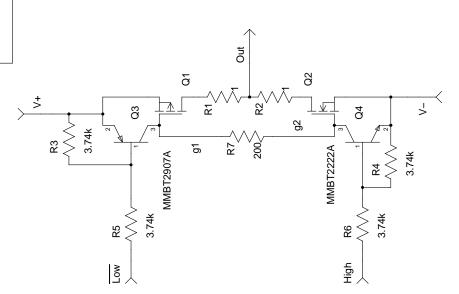
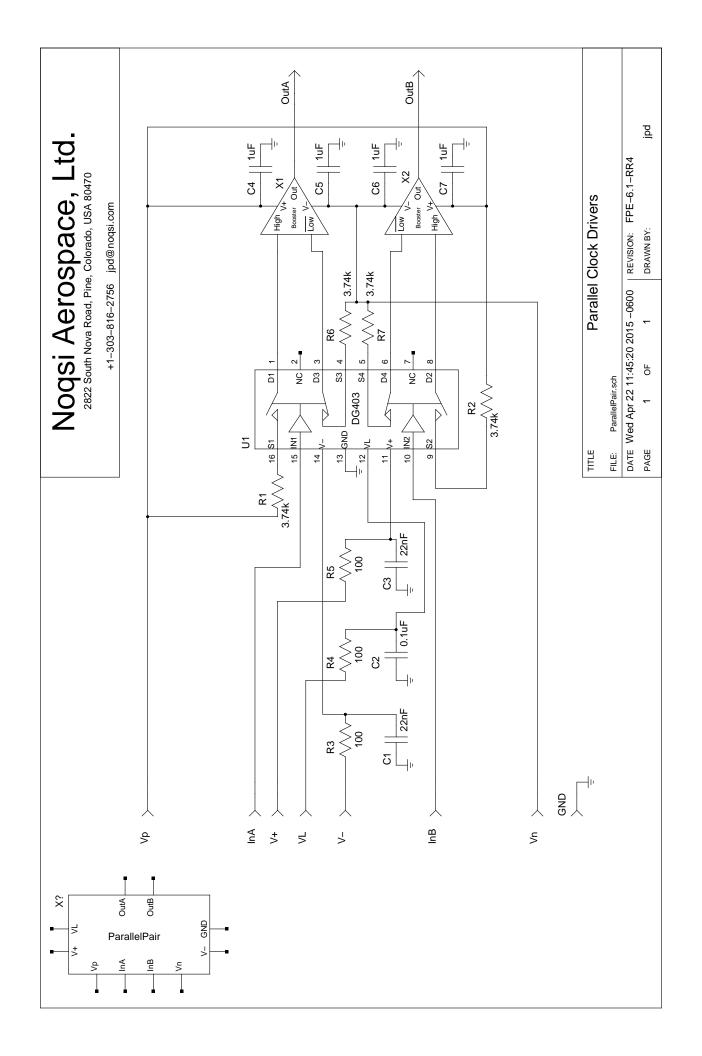
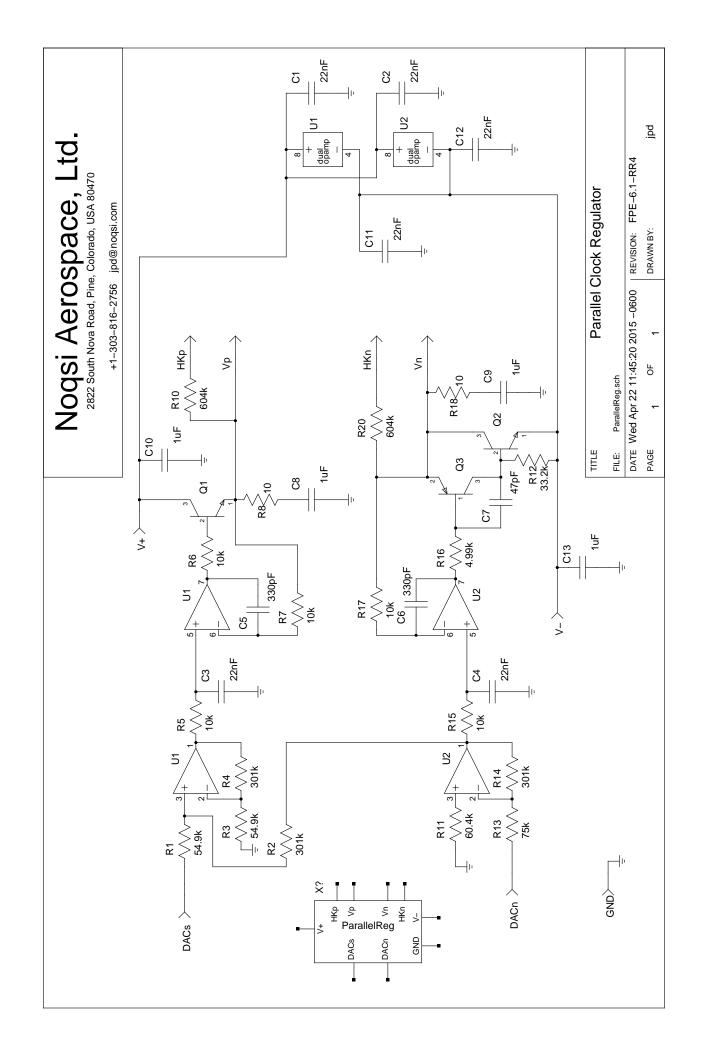
# Nodsi Aerospace, Ltd. 2822 South Nova Road, Pine, Colorado, USA 80470

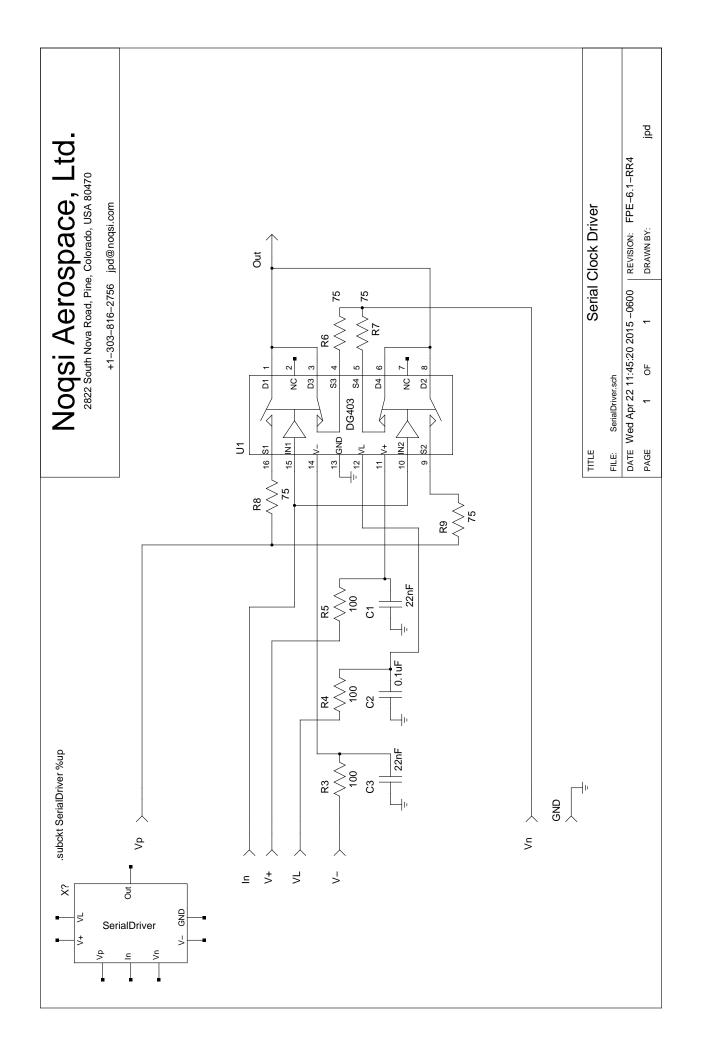
+1-303-816-2756 jpd@noqsi.com

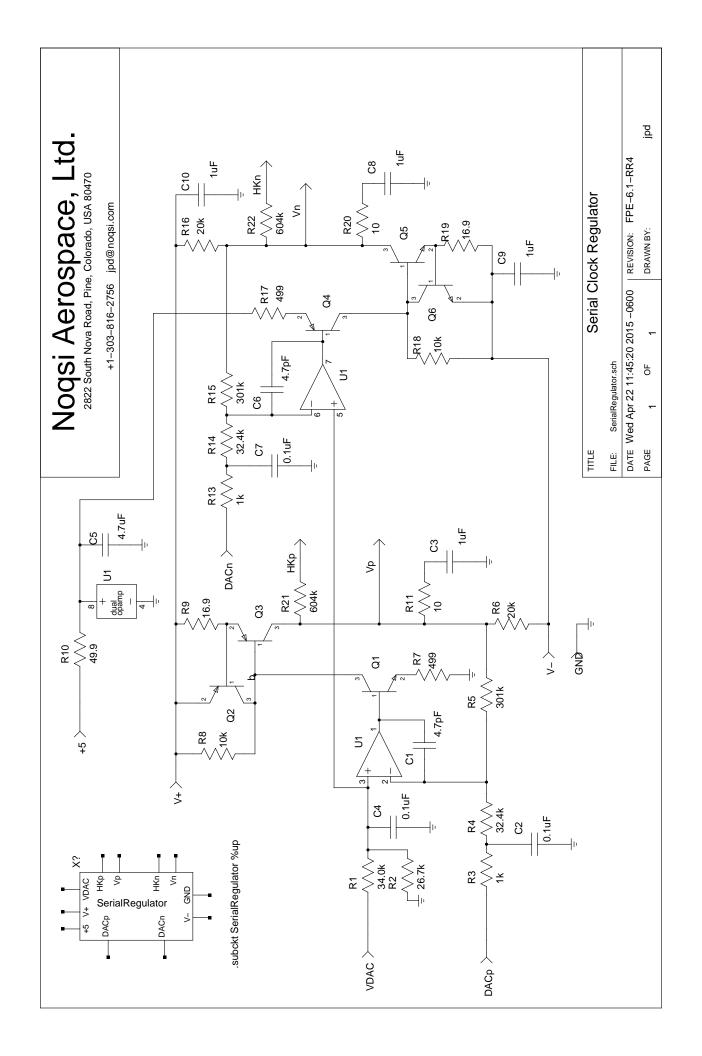


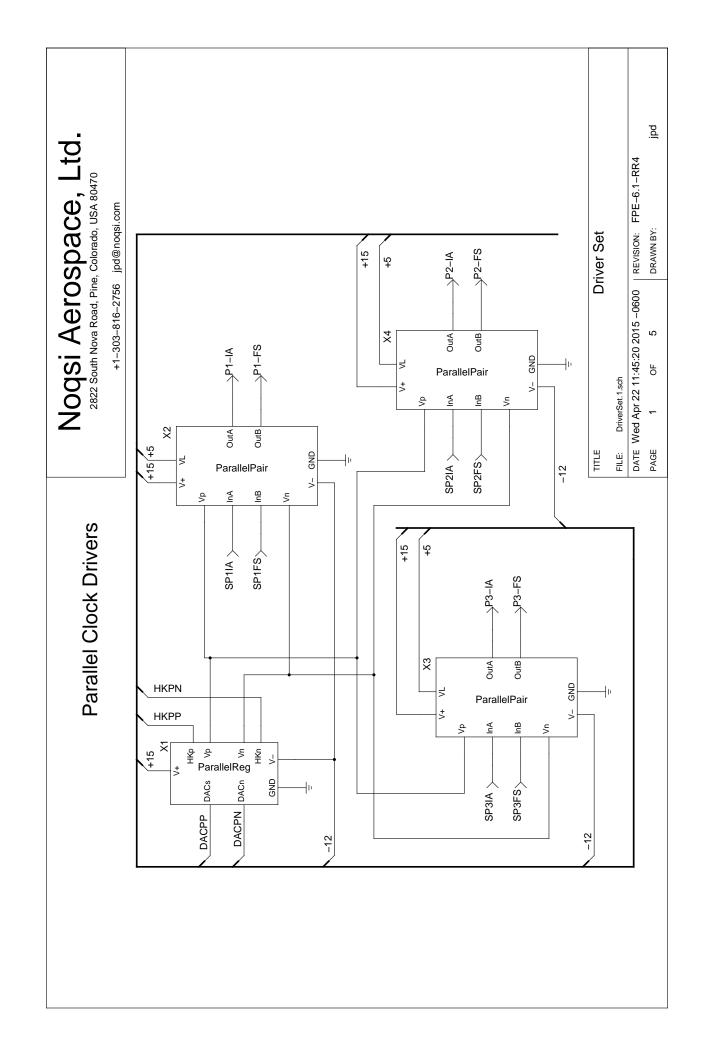
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Parallel clock current booster		REVISION: FPE-6.1-RR4	;;
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	Booster.sch	Wed Apr 22	_
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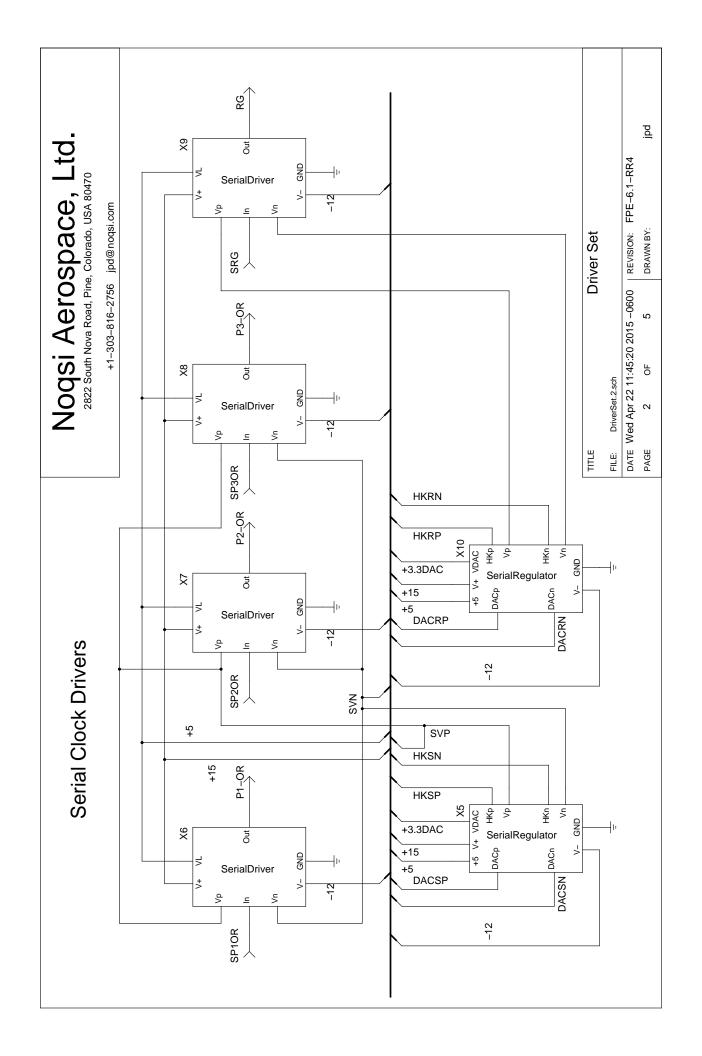


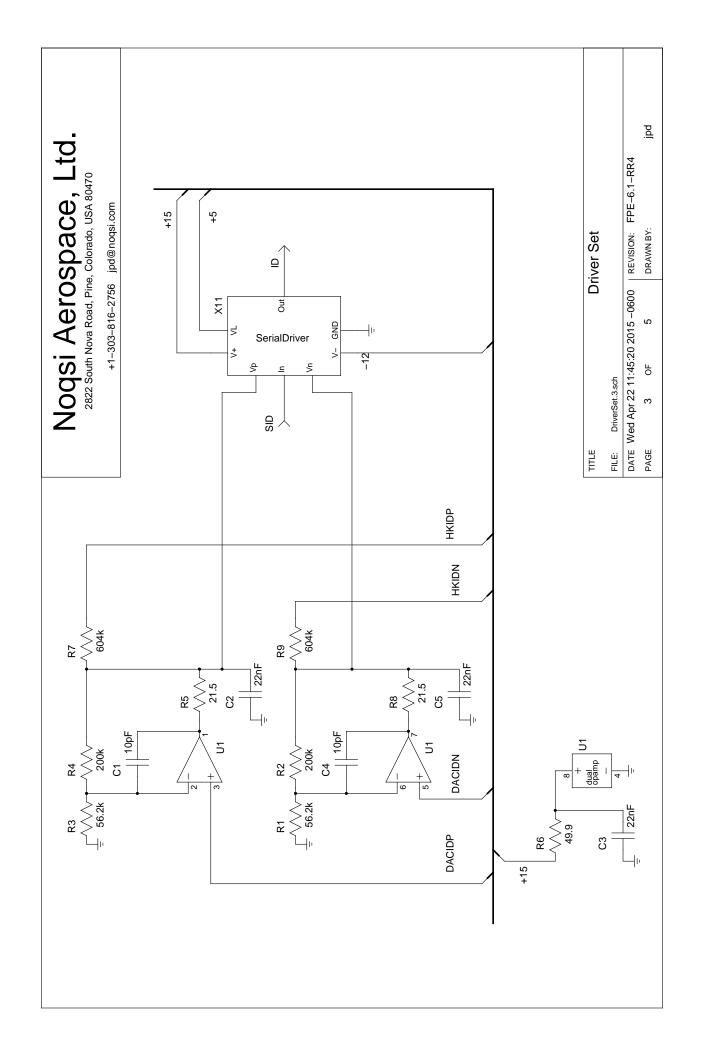


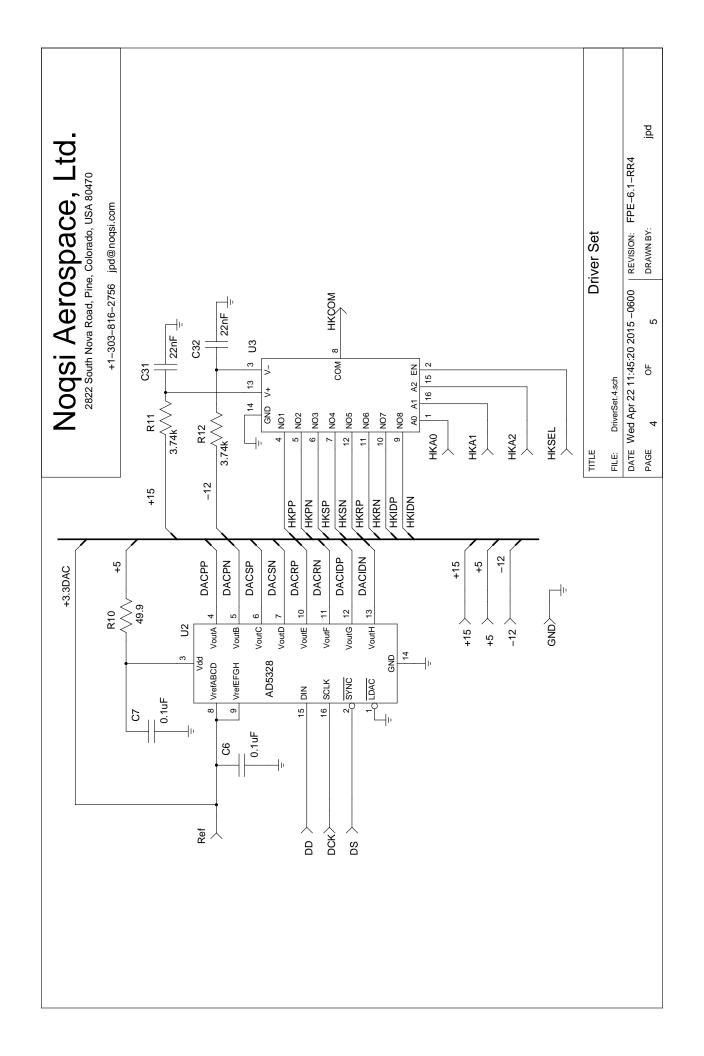




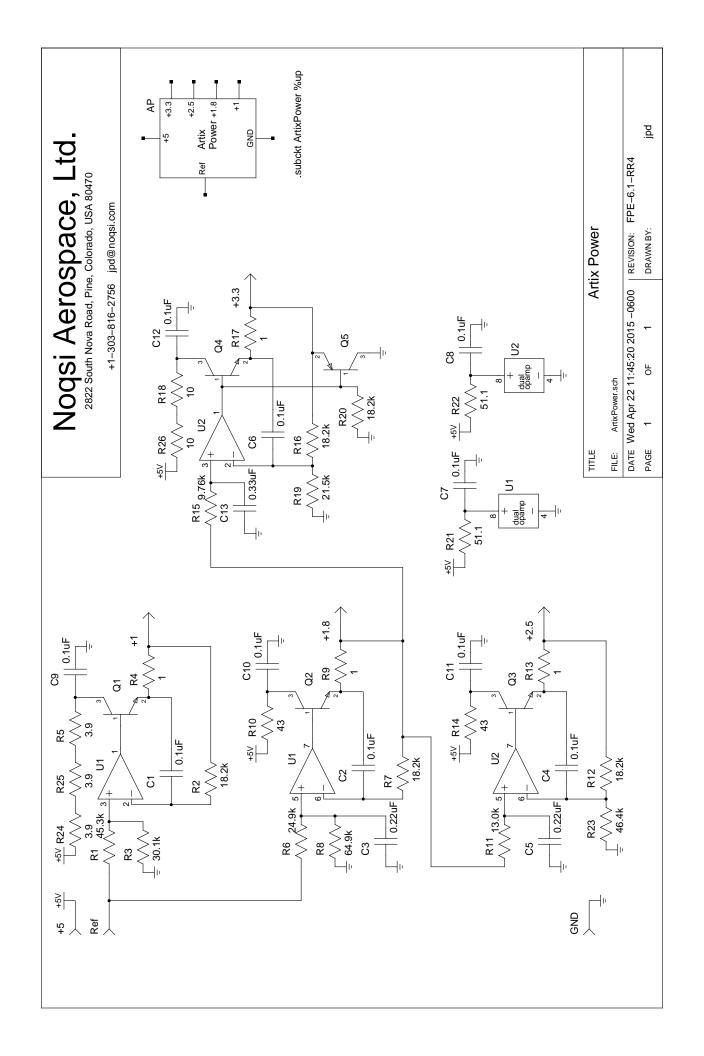


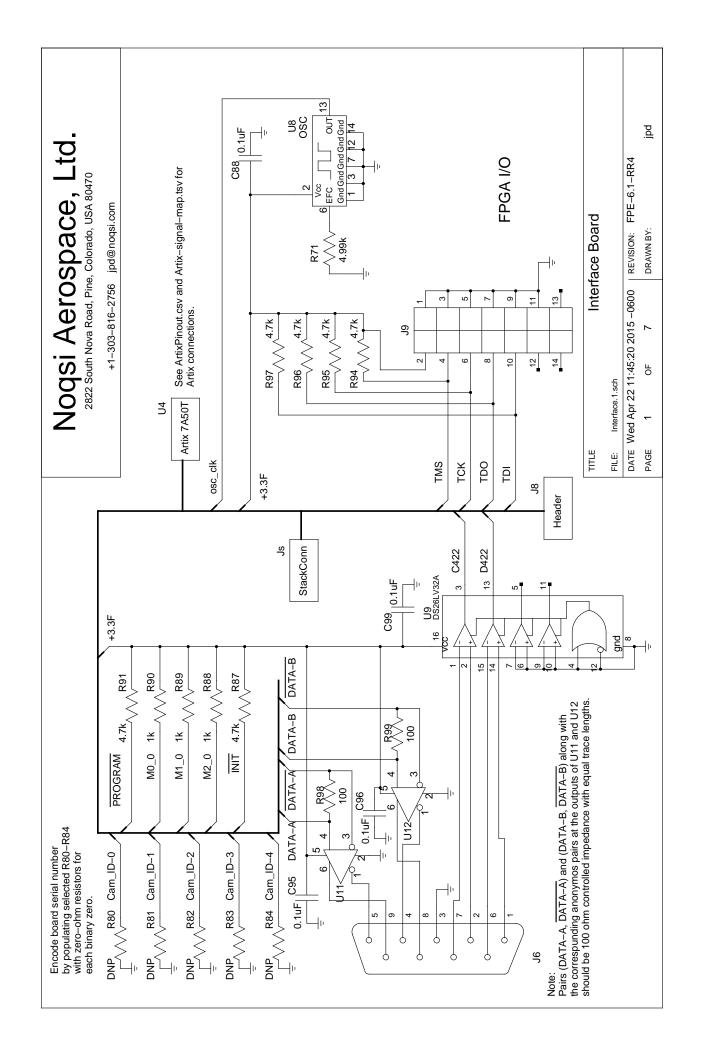


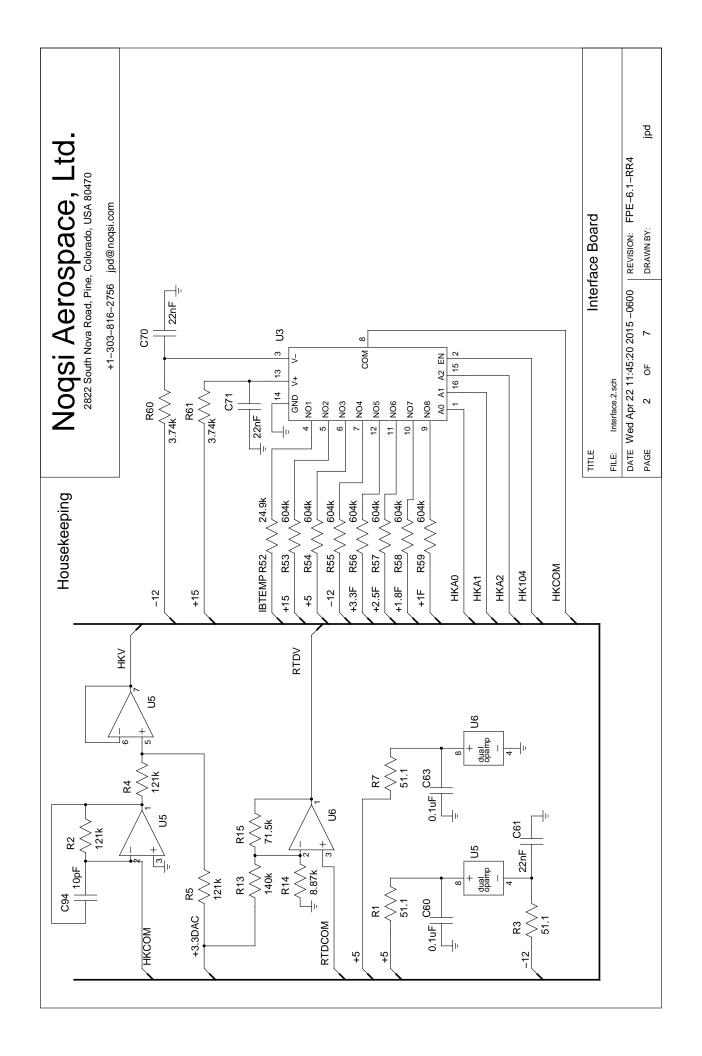




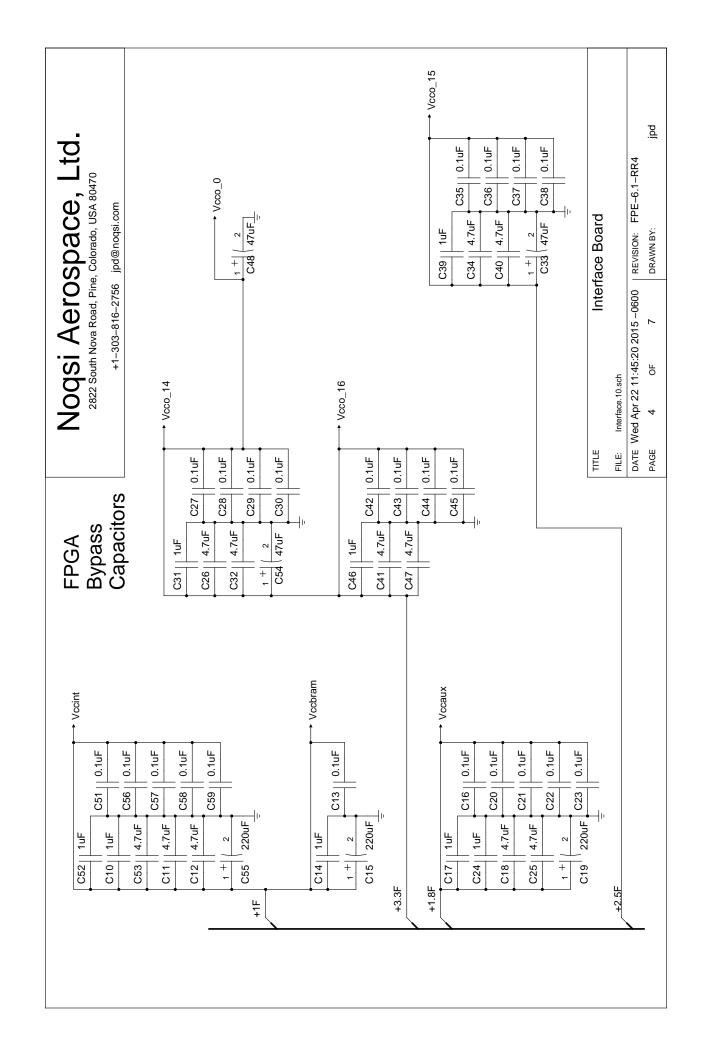
### bd Nodsi Aerospace, Ltd. 2822 South Nova Road, Pine, Colorado, USA 80470 DATE Wed Apr 22 11:45:20 2015 -0600 | REVISION: FPE-6.1-RR4 +1-303-816-2756 jpd@noqsi.com DRAWN BY: **Driver Set** P3-U X14 Ont SerialDriver FILE: DriverSet.5.sch SP3U P2-U X13 Ont GND SerialDriver SVP SP2U SVN 42 +15 P1-L X12 Ont SerialDriver SP1U

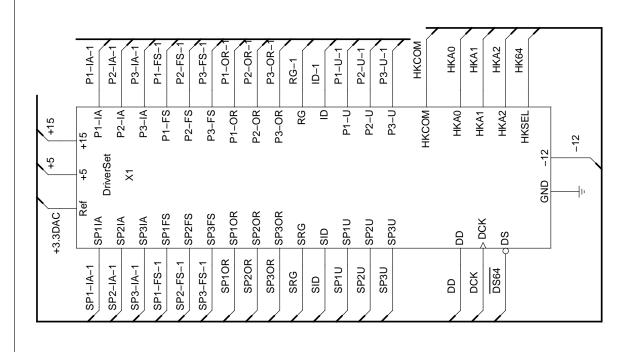






### bd Nodsi Aerospace, Ltd DATE Wed Apr 22 11:45:20 2015 -0600 | REVISION: FPE-6.1-RR4 2822 South Nova Road, Pine, Colorado, USA 80470 +1-303-816-2756 jpd@noqsi.com Interface Board +3.3F DRAWN BY: +2.5F IN- GND CNV 6 HKCS SDO 7 HKD SCK 8 HKC C75 0.1uF C76 3 REF VDDVIO 10 5 AD7984BRMZ SDI 6 FILE: Interface.3.sch 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 ¥

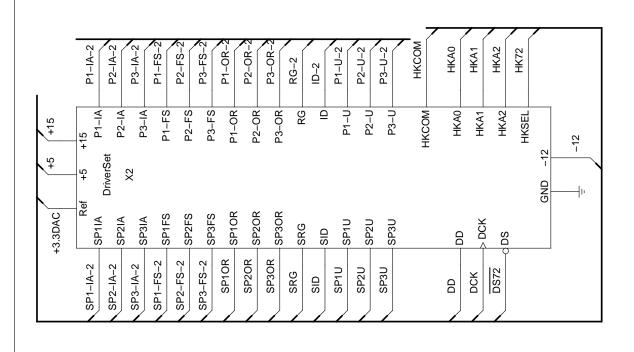




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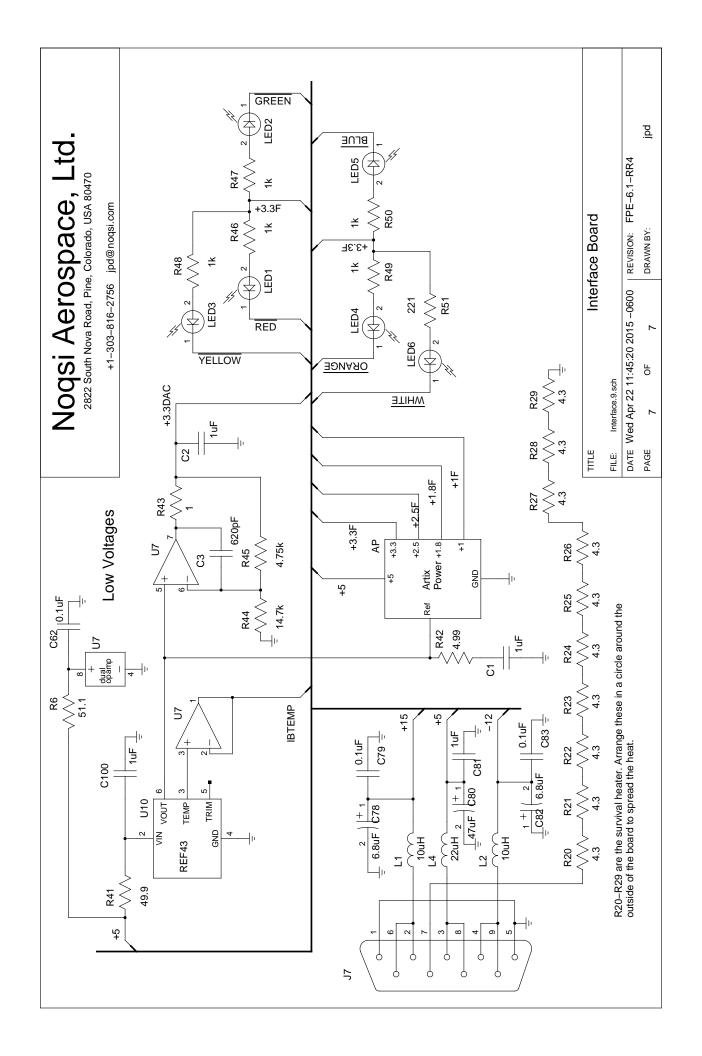
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	FILE: Interface.5.sch	Wed Apr 2	Ľ
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## Nodsi Aerospace, Ltd. 2822 South Nova Road, Pine, Colorado, USA 80470

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	Interface.6.sch	Wed Apr 22	9
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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\_	

Ар	r 17, 15 13:27		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	SP2-IA-4	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	SP3-IA-4	CCD_IA3_pin[3]	
U4	B15	SP3-IA-3	CCD_IA3_pin[2]	
U4	B16	SP3-IA-2	CCD_IA3_pin[1]	
U4	B13	SP3-IA-1	CCD_IA3_pin[0]	
U4	D16	SP1-FS-4	CCD_FS1_pin[3]	
U4	E14	SP1-FS-3	CCD_FS1_pin[2]	
U4	C14	SP1-FS-2	CCD_FS1_pin[1]	
U4	E13	SP1-FS-1	CCD_FS1_pin[0]	
U4	E22	SP2-FS-4	CCD_FS2_pin[3]	
U4	E21	SP2-FS-3	CCD_FS2_pin[2]	
U4	D22	SP2-FS-2	CCD_FS2_pin[1]	
U4	D21	SP2-FS-1	CCD_FS2_pin[0]	
U4	D14	SP3-FS-4	CCD_FS3_pin[3]	
U4	D15	SP3-FS-3	CCD_FS3_pin[2]	
U4	C15	SP3-FS-2	CCD_FS3_pin[1]	
U4	E16	SP3-FS-1	CCD_FS3_pin[0]	
U4	L21		DC_Sdi_pin[15]	
U4	K19		DC_Sdi_pin[14]	
U4	H15		DC_Sdi_pin[13]	
U4	G17		DC_Sdi_pin[12]	
U4	K18		DC_Sdi_pin[11]	
U4	G18		DC_Sdi_pin[10]	
U4	J20	SDO-B-3 CCD_A SDO-A-3 CCD A		
U4 U4	J14 J21	SDO-A-3 CCD_A SDO-D-2 CCD A	<u>-</u>	
		SDO-C-2 CCD_A SDO-C-2 CCD A	<u>-</u>	
U4 U4	M21 L20	SDO-C-2 CCD_A SDO-B-2 CCD_A		
U4	J15	SDO-B-2 CCD_A SDO-A-2 CCD_A		
U4	J19	SDO A 2 CCD_A SDO-D-1 CCD_A		
U4	H14	SDO-C-1 CCD_A		
U4	H19	SDO-B-1 CCD_A		
U4	N22	SDO-A-1 CCD_A		
U4	V18		DC_Sel_pin[2]	
U4	V19		DC_Sel_pin[1]	
U4	AB20		DC_Sel_pin[0]	
U4	L18	ArtixDebug7	DebugStatus_pins[7]	
U4	K21	ArtixDebug6	DebugStatus_pins[6]	
U4	H18		Status_pins[5]	
U4	K22	\_ORANGE\_	DebugStatus_pins[4]	
U4	G20	\_YELLOW\_	<pre>DebugStatus_pins[3]</pre>	
U4	H20	\_GREEN\_	DebugStatus_pins[2]	
U4	J22	\_BLUE\_	DebugStatus_pins[1]	
U4	H22	\_WHITE\_	<pre>DebugStatus_pins[0]</pre>	
U4	F13	$Cam_ID-4$	<pre>Cam_ID_pin[4]</pre>	
U4	E17	Cam_ID-3	<pre>Cam_ID_pin[3]</pre>	
U4	F15	Cam_ID-2	<pre>Cam_ID_pin[2]</pre>	
U4	F14	Cam_ID-1	Cam_ID_pin[1]	
U4	F16	Cam_ID-0	Cam_ID_pin[0]	
U4	E19	osc_clk osc_c		
U4 U4	Y18 R18		ePumpClk_pin	
T + 7	D 1 ()	SP1U CCD_S	U1_pin	

Арі	17, 15 13:27		Interface.U4.txt	Page 2/5
U4	N13	SP2U CCI	D_SU2_pin	
U4	N14		D_SU3_pin	
U4	R17		D_S1_pin	
U4	N17		D_S2_pin	
U4 U4	P17 R16		D_S3_pin D_RstGate_pin	
U4	P15		D_KStGate_pin D InDiode pin	
U4	L16		D_ADC_Clamp_pin	
U4	L14		D_ADC_DeInt_pin	
U4	L15		D_ADC_Int_pin	
U4	K16	CNV CCI	D_ADC_Cnv_pin	
U4	K17		D_ADC_Sck_pin	
U4	R22		d_DIN_pin	
U4	U20		d_SCK_pin	
U4	G15		taA_out_pin_p	
U4	H13 G16	DATA-B dat	taB_out_pin_p	
U4 U4	G18 G13	\_DATA-A\_ \_DATA-B\_	dataA_out_pin_n dataB_out_pin_n	
U4	AA21		K_ADC_Sck_pin	
U4	Y22		K_ADC_Sdi_pin	
U4	AA20	\_HKCS\_	HSK_ADC_Cnv_pin	
U4	W21		K_ADC_0_pin	
U4	W22		K_ADC_8_pin	
U4	U22		K_ADC_16_pin	
U4	V22		K_ADC_24_pin	
U4	Y21		K_ADC_32_pin	
U4	T19		K_ADC_40_pin	
U4 U4	T20 P21		K_ADC_48_pin K_ADC_56_pin	
U4	P19		X_ADC_50_pin X_ADC_64_pin	
U4	T21		K_ADC_72_pin	
U4	U21		K_ADC_80_pin	
U4	R19		K_ADC_88_pin	
U4	R21		K_ADC_96_pin	
U4	U17		K_ADC_104_pin	
U4	W17		K_ADC_112_pin	
U4	P20		K_ADC_120_pin	
U4	J17		S_DCS_0_pin	
U4	M13		S_DCS_8_pin	
U4 U4	L13 K13	\_DS16\_ \_DS24\_	CLS_DCS_16_pin CLS_DCS_24_pin	
U4	K13 K14	\_DS24\_ \_DS32\_	CLS_DCS_24_pin	
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\_	CLS_DCS_88_pin	
U4	N19	\_DS96\_	CLS_DCS_96_pin	
U4 U4	M18 L19		C_DAC_Din_pin C_DAC_Sck_pin	
U4 U4	M9	GND VN		
U4	мэ L10	GND VN		
U4	G11	_	_0 NE_0	
U4	N10	<del></del> -	P_0	
U4	К9		DADC_0	
U4	K10	+1.8F VC	CADC_0	
U4	M10	GND VR	EFP_0	

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U4	E12	GND	VCCBATT_0	
U4	V12	TCK	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'		
U4	R13	TDI	TDI_0	
U4	U13	TDO	TDO_0	
U4 U4	U9	M2_0	M2_0	
U4	U8 N12	+3.3F	3.30 RAM\_ PROGRAM_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	W13	GND	VCCO_13	
U4	Y10	GND	VCCO_13	
U4	M14	+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	H16	+2.5F	2.50	
U4	J13	+2.5F	2.50	
U4	K20	+2.5F	2.50	
U4 U4	L17 N21	+2.5F	2.50 2.50	
U4	N21 A17	+2.5F +3.3F	3.30	
U4	B14	+3.3F	3.30	
U4	C21	+3.3F	3.30	
U4	D18	+3.3F	3.30	
U4	E15	+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	Т2	GND	VCCO_34	
U4	V6	GND	VCCO_34	
U4	W3	GND	VCCO_34	
U4	C1	GND	VCCO_35	
U4	F2	GND	VCCO_35	
U4	H6	GND	VCCO_35	
U4	J3	GND	VCCO_35	
U4	M4	GND	VCCO_35	
U4 U4	N1 D11	GND GND	VCCO_35 MGTPRXP1_216	
U4 U4	B10	GND GND	MGTPRXP1_216 MGTPRXP2_216	
U4 U4	D9	GND	MGTPRXP2_216 MGTPRXP3_216	
U4	B8	GND	MGTPRXP0_216	
U4	C11	GND	MGTPRXN1_216	
U4	A10	GND	MGTPRXN2_216	
U4	C9	GND	MGTPRXN3_216	
U4	A8	GND	MGTPRXNO_216	
	-		_	

Δnr 1	17, 15 13:27		Interface.U4.txt	Page 4/5
-		CNID		1 age 4/3
U4 U4	F8 D8	GND GND	MGTRREF_216 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 U4	D13 E4	GND	GND GND	
U4	E5	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 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				

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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	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	wто Y5	GND GND	GND		
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	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		

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refdes	device value	spec	footprin	 nt	descrip	tion	
R29	RESISTOR	4.3	5% 1W	2512	Resisto		
R28	RESISTOR	4.3	5% 1W	2512	Resisto		
R26	RESISTOR	4.3	5% 1W	2512	Resisto		
R27	RESISTOR	4.3	5% 1W	2512	Resisto		
R24	RESISTOR	4.3	5% 1W	2512	Resisto		
R25	RESISTOR	4.3	5% 1W	2512	Resisto		
R22	RESISTOR	4.3	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		
บ7	DUAL_OPAMP	LM6142A	IΜ	N/A	S08		dual operational
amplif:	ier, SO8						_
R6	RESISTOR	51.1	1% 1/10	V	0603	Resistor	2
C1	CAPACITOR	1uF	10WVDC	K7R	0805	Ceramic	capacitor
R42	RESISTOR	4.99	1% 1/10	V	0603	Resistor	
C62	CAPACITOR	0.1uF	16WVDC		0603		capacitor
C2	CAPACITOR	1uF	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	V	0603	Resistor	<u>-</u>
R43	RESISTOR	1	1% 1/10	V	0603	Resistor	2
C79	CAPACITOR	0.1uF	50WVDC	K7R	0805	Ceramic	capacitor
C83	CAPACITOR	0.1uF	50WVDC 2	K7R	0805	Ceramic	capacitor
C81	CAPACITOR	1uF	10WVDC 2	K7R	0805	Ceramic	capacitor
C82	POLARIZED_CAPAC	TOR	6.8uF	35WVDC	2711		m capacitor
C78	POLARIZED_CAPAC	TOR	6.8uF	35WVDC		Tantalur	m capacitor
C80	POLARIZED_CAPAC	TOR	47uF	15WVDC	2711		m capacitor
L4	CDPH4D19FNP-220N		22uH		CDPH4D1	9F	incuctor
J7	747467-1	unknown	unknown	747467-3	1	unknown	
L2	IHLP5050FDER100N	101	10uH	unknown	IHLP505	0	incuctor
L1	IHLP5050FDER100N		10uH		IHLP505		incuctor
R51	RESISTOR	221	1% 1/10		0603	Resistor	2
LED6	LED 67-2226-		unknown		LED		
R50	RESISTOR	1k	1% 1/10		0603	Resisto	2
LED5	LED VAOL-S6S				LED		
R49			1% 1/10		0603	Resisto	2
LED4	LED 475-2481		unknown		LED		
AP/C13	CAPACITOR	0.33uF	10WVDC		0805		capacitor
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	Resisto		
AP/R25	RESISTOR	3.9	5% 1W	2512	Resisto		
AP/R23	RESISTOR	46.4k	1% 1/10V		0603	Resistor	
AP/C11	CAPACITOR	0.1uF	16WVDC		0603		capacitor
AP/C10	CAPACITOR	0.1uF	16WVDC		0603		capacitor
AP/C12	CAPACITOR	0.1uF	16WVDC		0603		capacitor
AP/C9	CAPACITOR	0.1uF	16WVDC		0603		capacitor
AP/C8	CAPACITOR	0.1uF	16WVDC 2		0603		capacitor
AP/R22	RESISTOR	51.1	1% 1/10V		0603	Resistor	
AP/C7	CAPACITOR	0.1uF	16WVDC 2		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% 1/10V		0603	Resistor	
AP/Q5	PNP_TRANSISTOR	MMBT290		unknown		unknown	_
AP/R17	RESISTOR	1 MMDEC 2 2 2	1% 1/100		0603	Resistor	<u>-</u>
AP/Q4	NPN_TRANSISTOR	MMBT2222	4A	unknown	UB	unknown	

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AP/C6	CAPACITOR		0.1uF	16WVDC 2	 Κ7R	0603	Ceramic	capacitor
	RESISTOR	-		1% 1/10V		0603	Resisto	
	RESISTOR			1% 1/10V		0603	Resisto	
	CAPACITOR			10WVDC 2		0805		capacitor
	RESISTOR	-	1	1% 1/10W		0603	Resistor	
	NPN_TRANS	TSTOR	<del>_</del>		unknown		unknown	
	CAPACITOR			16WVDC 2		0603		capacitor
	RESISTOR			1% 1/10W		0603	Resisto	
AP/R11				1% 1/10V		0603	Resisto	
AP/U2	DUAL_OPAM				N/A	SO8		dual operational
	ier, SO8		L110 1 12111		14/ 11	500	generie	addi operational
AP/C3	CAPACITOR		0.2211F	10WVDC 2	77R	0805	Ceramic	capacitor
	RESISTOR		1	1% 1/10V		0603	Resisto	
	NPN_TRANS		MMRT2222	ΣΔ	unknown	IIR	unknown	
	RESISTOR		64.9k	1% 1/10V 16WVDC 2	V	0603	Resistor	
	CAPACITOR		0.1uF	16WVDC >	77	0603	Ceramic	capacitor
	RESISTOR	-	18.2k	1% 1/10V	J	0603	Resisto	
	RESISTOR			1% 1/10V	√ √	0603	Resisto	
	RESISTOR		3.9	5% 1W		Resisto:		_
	RESISTOR		1	5% 1/4W		Resisto		
AP/Q1	NPN_TRANS				unknown		unknown	
AP/R3	RESISTOR			1% 1/10V		0603	Resisto	r
AP/C1	CAPACITOR		0.1uF	16WVDC >	<7R	0603	Ceramic	capacitor
AP/R2	RESISTOR	-	18.2k	1% 1/10V	J	0603	Resisto	
AP/R1	RESISTOR		45.3k	1% 1/10V		0603 0603	Resistor	
AP/U1	DUAL_OPAM	ΙP	45.3k LM6142A	_	N/A	S08		dual operational
	ier, 508		-		•		<b>J</b>	
R48	RESISTOR		1k	1% 1/10V	V	0603	Resisto	r
LED3		75-2794		unknown		LED		
R47	RESISTOR		1k	1% 1/10V		0603	Resisto	r
LED2		75-2709		unknown		LED		
R46	RESISTOR		1k	1% 1/10V		0603	Resisto	r
LED1	LED 4	75-2506	5-1-ND	unknown		LED		
C100	CAPACITOR		1uF	10WVDC 2		0805	Ceramic	capacitor
R41	RESISTOR		49.9	1% 1/10%	V	0603	Resisto	
U10	REFERENCE	! !	REF43GS	N/A	S08	2.5V Re	ference	
X2/X14/1	R9 R	ESISTOR	2	75	1% 1/10	M	0603	Resistor
X2/X14/1	R8 R	ESISTOR	2	75	1% 1/10	M	0603	Resistor
X2/X14/1	R7 R	ESISTOR	2	75	1% 1/10	M	0603	Resistor
X2/X14/I	R6 R	ESISTOR	2	75	1% 1/10	M	0603	Resistor
X2/X14/1		ESISTOR		100	1% 1/10		0603	Resistor
X2/X14/0	C3 C	APACITO	)R	22nF	50WVDC	X7R	0603	Ceramic capacito
r								
X2/X14/1		ESISTOR		100	1% 1/10		0603	Resistor
X2/X14/0	C2 C	APACITO	)R	0.1uF	16WVDC	X7R	0603	Ceramic capacito
r								
X2/X14/1		ESISTOR		100	1% 1/10		0603	Resistor
X2/X14/0	C1 C	APACITO	)R	22nF	50WVDC	X7R	0603	Ceramic capacito
r			_	_				
X2/X14/1				unknown			DT switch	
X2/X13/1		ESISTOR		75	1% 1/10		0603	Resistor
X2/X13/1		ESISTOR		75	1% 1/10		0603	Resistor
X2/X13/1		ESISTOR		75	1% 1/10		0603	Resistor
X2/X13/1		ESISTOR		75	1% 1/10		0603	Resistor
X2/X13/1		ESISTOR		100	1% 1/10		0603	Resistor
X2/X13/0	C3 C	APACITO	)R	22nF	50WVDC	X7R	0603	Ceramic capacito
r						_		
X2/X13/1		ESISTOR		100	1% 1/10		0603	Resistor
X2/X13/0	C2 C	APACITO	)R	0.1uF	16WVDC	x/R	0603	Ceramic capacito

			_		, ,
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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	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	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		100	10 1/10	0.500	
X2/X12/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X12/C2 r	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
X2/X12/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X12/C1	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r					
X2/X12/U1		unknown		DT switc	
X2/R12 RESISTOR		1% 1/10		Resisto	
X2/R11 RESISTOR		1% 1/10		Resisto	
X2/C7 CAPACITO		16WVDC 2			capacitor
X2/R10 RESISTOR		1% 1/10T		Resisto	
X2/C6 CAPACITO X2/C32 CAPACITO		16WVDC 2			capacitor capacitor
X2/U3 MAX308C		unknown		analog	
X2/C31 CAPACITO		50WVDC			capacitor
X2/U2 AD5328	unknown unknown			oci amii o	capacitoi
X2/X1/C11 r	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
x2/x1/C12 r	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
X2/X1/C2 r	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
X2/X1/C13 r	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
X2/X1/C10 r	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
X2/X1/R20	RESISTOR	604k	1% 1/10W	0603	Resistor
X2/X1/R10	RESISTOR	604k	1% 1/10W	0603	Resistor
X2/X1/C1	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r v2/v1/p10	DECTOROD	1.0	10, 11, 7517	Resisto	<b>3</b> 0
X2/X1/R18 X2/X1/C9	RESISTOR CAPACITOR	10 1uF	1% 1W 2512 25WVDC X7R	Resisto 1812	r Ceramic capacito
x2/x1/C9	CALACTION	T U.L.	ZJWVDC A/K	1012	ceramic capacito
X2/X1/R12	RESISTOR	33.2k	1% 1/10W	0603	Resistor
X2/X1/Q2	LM195H unknown				
X2/X1/C7  r	CAPACITOR	47pF	50WVDC NP0	0603	Ceramic capacito
X2/X1/R16	RESISTOR	4.99k	1% 1/10W	0603	Resistor
X2/X1/Q3	PNP_TRANSISTOR	MMBT290'			unknown
X2/X1/R8	RESISTOR	10	1% 1W 2512	Resisto	
X2/X1/C8 r	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
X2/X1/R2	RESISTOR	301k	1% 1/10W	0603	Resistor
X2/X1/C6	CAPACITOR	330pF	50WVDC NP0	0603	Ceramic capacito
r		_			_
X2/X1/R6	RESISTOR	10k	1% 1/10W	0603	Resistor
X2/X1/Q1	LM195H unknown	unknown	T039 unknown		

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x2/x1/R17	RESISTOR	10k	1% 1/10	 ₩	0603	Resistor
X2/X1/R7	RESISTOR	10k	1% 1/10		0603	Resistor
X2/X1/C5	CAPACITOR	330pF	50WVDC		0603	Ceramic capacito
	CAPACITOR	330PF	JOWVDC .	NPO	0003	Ceramic Capacito
r x2/x1/04	GA DA GIMOD	0 0 H	E OUT TO C	X7D	0.00	
X2/X1/C4	CAPACITOR	22nF	50WVDC	X/R	0603	Ceramic capacito
r	GA DA GTEOD	00 5	FORTER		0.602	
X2/X1/C3	CAPACITOR	22nF	50WVDC	X/R	0603	Ceramic capacito
r		4.01			0.500	
X2/X1/R15	RESISTOR	10k	1% 1/10		0603	Resistor
X2/X1/R5	RESISTOR	10k	1% 1/10		0603	Resistor
X2/X1/R11	RESISTOR	60.4k	1% 1/10		0603	Resistor
X2/X1/R13	RESISTOR	75k	1% 1/10		0603	Resistor
X2/X1/R14	RESISTOR	301k	1% 1/10		0603	Resistor
X2/X1/U2	DUAL_OPAMP	LM6142A	IM	N/A	S08	generic dual ope
rational amplif						
X2/X1/R1	RESISTOR	54.9k	1% 1/10	W	0603	Resistor
X2/X1/R3	RESISTOR	54.9k	1% 1/10	W	0603	Resistor
X2/X1/R4	RESISTOR	301k	1% 1/10	W	0603	Resistor
X2/X1/U1	DUAL_OPAMP	LM6142A	IM	N/A	S08	generic dual ope
rational amplif:	ier, SO8					
X2/X2/C2	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacito
r						
X2/X2/C3	CAPACITOR	22nF	50WVDC	X7R	0603	Ceramic capacito
r						_
X2/X2/C1	CAPACITOR	22nF	50WVDC	X7R	0603	Ceramic capacito
r						_
X2/X2/C7	CAPACITOR	1uF	25WVDC	X7R	1812	Ceramic capacito
r						-
X2/X2/C4	CAPACITOR	1uF	25WVDC	X7R	1812	Ceramic capacito
r						000000000000000000000000000000000000000
X2/X2/C6	CAPACITOR	1uF	25WVDC	X7R	1812	Ceramic capacito
r						
x2/x2/C5	CAPACITOR	1uF	25WVDC	x7r	1812	Ceramic capacito
r						00-00-00-00-00-00-00-00-00-00-00-00-00-
X2/X2/R2	RESISTOR	3.74k	1% 1/10	W	0603	Resistor
X2/X2/R1	RESISTOR	3.74k	1% 1/10		0603	Resistor
X2/X2/R7	RESISTOR	3.74k	1% 1/10		0603	Resistor
X2/X2/R6	RESISTOR	3.74k	1% 1/10		0603	Resistor
X2/X2/X2/Q1	PMOS_TRANSISTOR					generic P channe
	r (enhancement ty		514	aiiiiiowii	10232111	generic i ename
X2/X2/X2/Q2	NMOS TRANSISTOR		VI	unknown	TO252AA	generic N channe
	r (enhancement ty			WIII WII	102021111	501101110
X2/X2/X2/R6	RESISTOR	3.74k	1% 1/10	ΓΛĪ	0603	Resistor
X2/X2/X2/R5	RESISTOR		1% 1/10		0603	Resistor
X2/X2/X2/R3 X2/X2/X2/R4	RESISTOR	3.74k	1% 1/10		0603	Resistor
X2/X2/X2/R4 X2/X2/X2/R3	RESISTOR	3.74k	1% 1/10		0603	Resistor
X2/X2/X2/R3 X2/X2/X2/R7	RESISTOR RESISTOR	200	1% 1/10		0603	Resistor
						unknown
X2/X2/X2/Q4	NPN_TRANSISTOR			unknown		
X2/X2/X2/Q3	PNP_TRANSISTOR	MMBT2907		unknown		unknown
X2/X2/X2/R2	RESISTOR	1	1% 1W	2512	Resistor	
X2/X2/X2/R1	RESISTOR	1	1% 1W	2512	Resisto	
X2/X2/X1/Q1	PMOS_TRANSISTOR		ΛΙΝ	unknown	10252AA	generic P channe
	r (enhancement ty		<b>.</b> т	1	шоогот-	
X2/X2/X1/Q2	NMOS_TRANSISTOR		N	unknown	TO252AA	generic N channe
	r (enhancement ty		10 1 11 1		0.603	
X2/X2/X1/R6	RESISTOR	3.74k	1% 1/10		0603	Resistor
X2/X2/X1/R5	RESISTOR	3.74k	1% 1/10		0603	Resistor
X2/X2/X1/R4	RESISTOR	3.74k	1% 1/10		0603	Resistor
X2/X2/X1/R3	RESISTOR	3.74k	1% 1/10	W	0603	Resistor

		1 4 6			
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X2/X2/X1/R7 X2/X2/X1/Q4 X2/X2/X1/Q3 X2/X2/X1/R2 X2/X2/X1/R1 X2/X2/R3 X2/X2/R4	RESISTOR NPN_TRANSISTOR PNP_TRANSISTOR RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR	200 MMBT2222 MMBT2907 1 1 100 100		UB un UB un Resistor Resistor 0603 Re	esistor nknown nknown esistor esistor
X2/X2/R4 X2/X2/R5	RESISTOR	100	1% 1/10W 1% 1/10W		esistor
X2/X2/U1	DG403 unknown	unknown	SO16 Dual SPI	OT switch	
X2/X3/C2 r	CAPACITOR	0.1uF	16WVDC X7R	0603 C	eramic capacito
x2/x3/C3 r	CAPACITOR	22nF	50WVDC X7R	0603 C	eramic capacito
x2/x3/C1 r	CAPACITOR	22nF	50WVDC X7R	0603 C	eramic capacito
X2/X3/C7	CAPACITOR	1uF	25WVDC X7R	1812 C	eramic capacito
x2/x3/C4 r	CAPACITOR	1uF	25WVDC X7R	1812 C	eramic capacito
x2/x3/C6 r	CAPACITOR	1uF	25WVDC X7R	1812 C	eramic capacito
X2/X3/C5 r	CAPACITOR	1uF	25WVDC X7R	1812 C	eramic capacito
x2/x3/R2	RESISTOR	3.74k	1% 1/10W		esistor
X2/X3/R1	RESISTOR	3.74k	1% 1/10W		esistor
X2/X3/R7	RESISTOR	3.74k	1% 1/10W		esistor
X2/X3/R6	RESISTOR	3.74k	1% 1/10W		esistor
X2/X3/X2/Q1	PMOS_TRANSISTOR	IRFR9120	0N unknown	TO252AA ge	eneric P channe
1 MOS transisto	r (enhancement ty	ype)			
X2/X3/X2/Q2	NMOS_TRANSISTOR		N unknown	TO252AA ge	eneric N channe
	r (enhancement ty		10 1/10	0.600	
X2/X3/X2/R6	RESISTOR	3.74k	1% 1/10W		esistor
X2/X3/X2/R5	RESISTOR	3.74k	1% 1/10W		esistor
X2/X3/X2/R4	RESISTOR	3.74k	1% 1/10W		esistor
X2/X3/X2/R3	RESISTOR	3.74k	1% 1/10W		esistor
X2/X3/X2/R7	RESISTOR	200	1% 1/10W		esistor
X2/X3/X2/Q4	NPN_TRANSISTOR				nknown
X2/X3/X2/Q3	PNP_TRANSISTOR	MMBT290			nknown
X2/X3/X2/R2	RESISTOR	1		Resistor	
X2/X3/X2/R1	RESISTOR	1		Resistor	
X2/X3/X1/Q1	PMOS_TRANSISTOR		UN unknown	T0252AA g	eneric P channe
X2/X3/X1/Q2	r (enhancement ty NMOS_TRANSISTOR	-	M unknown	TO25277 0	eneric N channe
	r (enhancement ty		uiikiiOWli	10232AA G	CHELIC N CHAINE
X2/X3/X1/R6	RESISTOR	3.74k	1% 1/10W	0603 Re	esistor
X2/X3/X1/R5	RESISTOR	3.74k	1% 1/10W		esistor
X2/X3/X1/R4	RESISTOR	3.74k	1% 1/10W		esistor
X2/X3/X1/R3	RESISTOR	3.74k	1% 1/10W		esistor
X2/X3/X1/R7	RESISTOR	200	1% 1/10W		esistor
X2/X3/X1/Q4	NPN_TRANSISTOR	MMBT2222			nknown
X2/X3/X1/Q3	PNP_TRANSISTOR	MMBT290			nknown
X2/X3/X1/R2	RESISTOR	1	1% 1W 2512	Resistor	
X2/X3/X1/R1	RESISTOR	1	1% 1W 2512	Resistor	
X2/X3/R3	RESISTOR	100	1% 1/10W	0603 Re	esistor
X2/X3/R4	RESISTOR	100	1% 1/10W	0603 Re	esistor
X2/X3/R5	RESISTOR	100	1% 1/10W	0603 Re	esistor
X2/X3/U1	DG403 unknown			OT switch	
X2/X4/C2	CAPACITOR	0.1uF	16WVDC X7R	0603 C	eramic capacito
r					

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X2/X4/C3	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r X2/X4/C1	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r X2/X4/C7	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
r					_
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		011 0111110 1111	-0-0	30110110 1 0110111110
X2/X4/X2/Q2	NMOS_TRANSISTOR		N unknown	T0252AA	generic N channe
	r (enhancement ty				
X2/X4/X2/R6	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X2/X4/X2/R5	RESISTOR	3.74k	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				unknown
X2/X4/X2/Q3	PNP_TRANSISTOR	MMBT290			unknown
X2/X4/X2/Q3 X2/X4/X2/R2	RESISTOR	1		Resistor	
X2/X4/X2/R2 X2/X4/X2/R1	RESISTOR	1		Resistor	
X2/X4/X1/Q1	PMOS_TRANSISTOR				generic P channe
	r (enhancement ty		on unknown	10232AA	generic r channe
X2/X4/X1/Q2	NMOS_TRANSISTOR		N unknown	т∩252дд	generic N channe
	r (enhancement ty		aiiidii owii	10232AA	generic iv channe
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/R3 X2/X4/X1/R4	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X2/X4/X1/R4 X2/X4/X1/R3	RESISTOR	3.74k	1% 1/10W 1% 1/10W		Resistor
X2/X4/X1/R3 X2/X4/X1/R7		200	1% 1/10W 1% 1/10W	0603	
	RESISTOR				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/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X4/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X4/U1		unknown			
X2/X10/C5	CAPACITOR	4.7uF	10WVDC X7R	1812	Ceramic capacito
r					
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					
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
r	- <del></del>	<del>-</del>	- · · · · · · · · · · · · · · · · · · ·	- <del></del>	2 2 2 2 2 3 2 3 3 2 3 3 4 3 4 3 4 3 4 3

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X2/X10/R18	RESISTOR	10k	1% 1/10W	0603	Resistor
X2/X10/R10 X2/X10/Q6	NPN_TRANSISTOR	MMBT222			unknown
X2/X10/R19	RESISTOR	16.9	1% 1/10W	0603	Resistor
X2/X10/R13 X2/X10/Q5	NPN_TRANSISTOR	MMBT222			unknown
X2/X10/Q3 X2/X10/R16	RESISTOR	20k	1% 1/10W	0603	Resistor
X2/X10/R10 X2/X10/R17	RESISTOR	499	1% 1/10W	0603	Resistor
X2/X10/R1/ X2/X10/Q4	PNP_TRANSISTOR	MMBT290			unknown
X2/X10/Q4 X2/X10/C7	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r	CAFACITOR	0.1ur	IOWVDC X/K	0003	ceramic capacito
X2/X10/R13	RESISTOR	1k	1% 1/10W	0603	Resistor
X2/X10/R13 X2/X10/R14	RESISTOR	32.4k	1% 1/10W	0603	Resistor
X2/X10/C6	CAPACITOR	4.7pF	100WVDC NP0	0603	Ceramic capacito
r	C71171C11O1C	1.721	100WVDC IVI 0	0003	ceramic capacito
x2/x10/R15	RESISTOR	301k	1% 1/10W	0603	Resistor
X2/X10/R13 X2/X10/R11	RESISTOR	10	1% 1/10W	0603	Resistor
X2/X10/C1	CAPACITOR	4.7pF	100WVDC NP0	0603	Ceramic capacito
r	C71171C11O1C	1.721	100WVDC IVI 0	0003	ceramic capacito
x2/x10/Q1	NPN TRANSISTOR	MMBT222	2A unknown	IJB	unknown
X2/X10/R7	RESISTOR	499	1% 1/10W	0603	Resistor
X2/X10/R7 X2/X10/R10	RESISTOR	49.9	1% 1/10W	0603	Resistor
X2/X10/K10 X2/X10/U1	DUAL_OPAMP	LM6142A		SO8	generic dual ope
rational amplif		A		200	JULIEL CAGGI OPC
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/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r	CAFACITOR	o.iur	IOWVDC X/K	0003	ceramic capacito
x2/x10/R3	RESISTOR	1k	1% 1/10W	0603	Resistor
X2/X10/R3 X2/X10/R4	RESISTOR	32.4k	1% 1/10W	0603	Resistor
X2/X10/R4 X2/X10/R5	RESISTOR	301k	1% 1/10W	0603	Resistor
X2/X10/R5 X2/X10/R6	RESISTOR	20k	1% 1/10W	0603	Resistor
X2/X10/R0 X2/X10/C3	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
r	CAPACITOR	Tur	ZJWVDC X/K	1012	Ceramic Capacito
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/R3	RESISTOR	100	1% 1/10W 1% 1/10W	0603	Resistor
X2/X9/K3 X2/X9/C3	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
x2/x9/C3	CALUCTION	∠ ∠111.	JOMADO VIK	0003	Ceramic Capacito
x2/x9/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X9/K4 X2/X9/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r	CHEACTION	J. Lur	TOMADO VIII	0003	ccramic capacito
X2/X9/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X9/K3 X2/X9/C1	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r	C111 11C 1 1 OIL	2111.	SOMADO WIL	5005	ccramic capacito
x2/x9/U1	DG403 unknown	unknown	SO16 Dual SPI	OT swite	h
X2/X8/R9	RESISTOR	75	1% 1/10W	0603	Resistor
X2/X8/R8	RESISTOR	75 75	1% 1/10W 1% 1/10W	0603	Resistor
X2/X8/R7	RESISTOR	75 75	1% 1/10W 1% 1/10W	0603	Resistor
X2/X8/R6	RESISTOR	75 75	1% 1/10W 1% 1/10W	0603	Resistor
X2/X8/R3	RESISTOR	100	1% 1/10W 1% 1/10W	0603	Resistor
X2/X8/C3	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
x2/x6/C3	CALUCTION	∠ ∠111.	JOMADO VIK	0003	Ceramic Capacito
x2/x8/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X8/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
M/2 dia 2 dia 3 A 2 2 1 00		o.rur	TOMADO WIN	<u> </u>	Ceramic Capacito

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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 Si	PDT 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	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r					
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 Si	PDT switc	h l
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					
X2/X6/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X6/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r					
X2/X6/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X2/X6/C1	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r					-
X2/X6/U1	DG403 unknown	unknown	SO16 Dual Si	PDT switc	h
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					
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	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
r					
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	PNP_TRANSISTOR	MMBT290			unknown
X2/X5/C7	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r					_
X2/X5/R13	RESISTOR	1k	1% 1/10W	0603	Resistor
X2/X5/R14	RESISTOR	32.4k	1% 1/10W	0603	Resistor
X2/X5/C6	CAPACITOR	4.7pF	100WVDC NP0	0603	Ceramic capacito
r					

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X2/X5/R15	RESISTOR	301k	1% 1/10	) W	0603	Resistor
X2/X5/R11	RESISTOR	10	1% 1/10		0603	Resistor
X2/X5/C1	CAPACITOR	4.7pF	100WVDC		0603	Ceramic capacito
r	CHILICITOR	1.721	TOOMVE	2 141 0	0003	ceramic capacito
x2/x5/Q1	NPN_TRANSIST	OR MMBT22	22 <u>D</u>	unknown	IIR	unknown
X2/X5/Q1 X2/X5/R7	RESISTOR	499	1% 1/10		0603	Resistor
X2/X5/R10	RESISTOR		1% 1/10		0603	Resistor
X2/X5/U1	DUAL_OPAMP	LM6142		N/A	SO8	generic dual ope
rational amplif:		LITOI 121	1111	14/21	500	generic addr ope
X2/X5/R8	RESISTOR	10k	1% 1/10	Μ	0603	Resistor
X2/X5/R2	RESISTOR	26.7k	1% 1/10		0603	Resistor
X2/X5/R1	RESISTOR	34.0k	1% 1/10		0603	Resistor
X2/X5/C2	CAPACITOR	0.1uF	16WVDC		0603	Ceramic capacito
r	CHILICITOR	0.141	TOWVEC	21 / 10	0005	ceramic capacito
X2/X5/R3	RESISTOR	1k	1% 1/10	УM	0603	Resistor
X2/X5/R4	RESISTOR	32.4k	1% 1/10		0603	Resistor
X2/X5/R5	RESISTOR	301k	1% 1/10		0603	Resistor
X2/X5/R6	RESISTOR	20k	1% 1/10		0603	Resistor
X2/X5/C3	CAPACITOR	1uF	25WVDC		1812	Ceramic capacito
r	CALACTION	Iur	ZJWVDC	22 / 10	1012	ceramic capacito
X2/X5/R9	RESISTOR	16.9	1% 1/10	) W	0603	Resistor
X2/X5/Q3	PNP_TRANSIST			unknown		unknown
X2/X5/Q3 X2/X5/Q2	PNP_TRANSIST			unknown		unknown
X2/X3/Q2 X2/X11/R9	RESISTOR	75	1% 1/10		0603	Resistor
X2/X11/R9 X2/X11/R8	RESISTOR	75 75	1% 1/10		0603	Resistor
X2/X11/R6 X2/X11/R7	RESISTOR	75 75	1% 1/10		0603	Resistor
X2/X11/R7 X2/X11/R6	RESISTOR	75 75	1% 1/10		0603	Resistor
		100	1% 1/10		0603	Resistor
X2/X11/R3	RESISTOR					
X2/X11/C3 r	CAPACITOR	22nF	50WVDC	A/R	0603	Ceramic capacito
X2/X11/R4	RESISTOR	100	1% 1/10	) TuT	0603	Resistor
		0.1uF	16WVDC		0603	
X2/X11/C2	CAPACITOR	U.lur	TOMADC	A/R	0003	Ceramic capacito
r   X2/X11/R5	DECTOROD	100	1% 1/10	7.7	0603	Resistor
X2/X11/R5 X2/X11/C1	RESISTOR CAPACITOR	22nF	50WVDC		0603	Ceramic capacito
	CAPACITOR	22115	SOWVDC	A/K	0003	Ceramic Capacito
r   X2/X11/U1	DG403 unkr	own unknow	2016	מם לבנים	OT switc	h
X2/R11/01 X2/R9 RESISTOR			0603	Resisto:		11
X2/R3 RESISTOR			0603	Resisto:		
X2/R2 RESISTOR			0603	Resisto:		
				0603		ganagitor
X2/C4 CAPACITO X2/R8 RESISTOR	_			0603	Resisto	capacitor
				0603		r capacitor
1				0603		
X2/R6 RESISTOR X2/C3 CAPACITO					Resisto	r capacitor
· ·		50WVDC 42AIM		0603		_
X2/U1 DUAL_OPA	- אויזד דוווף	±∠A⊥M	N/A	S08	generic	dual operational
amplifier, SO8	C 0 41	1 0.	0603	Do ~	10	
X2/R7 RESISTOR			0603	Resisto:		
X2/R3 RESISTOR			0603	Resisto:		
X2/R4 RESISTOR			0603	Resisto:		ganagi tara
X2/C1 CAPACITO	_			0603		capacitor
X2/R5 RESISTOR				0603	Resisto	
X2/C2 CAPACITO				0603		capacitor
X1/X14/R9	RESISTOR	75 75	1% 1/10		0603	Resistor
X1/X14/R8	RESISTOR	75 75	1% 1/10		0603	Resistor
X1/X14/R7	RESISTOR	75 75	1% 1/10		0603	Resistor
X1/X14/R6	RESISTOR	75 100	1% 1/10		0603	Resistor
X1/X14/R3	RESISTOR	100	1% 1/10		0603	Resistor
X1/X14/C3	CAPACITOR	22nF	50WVDC	A/K	0603	Ceramic capacito

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r					
X1/X14/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X14/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r		100	40 4 44 0	0.500	
X1/X14/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X14/C1   r	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
X1/X14/U1	DG403 unknown	unknown	SO16 Dual SP	DT switc	h
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		unknown		DT switc	
X1/X12/R9   X1/X12/R8	RESISTOR RESISTOR	75 75	1% 1/10W 1% 1/10W	0603 0603	Resistor Resistor
X1/X12/R6 X1/X12/R7	RESISTOR	75 75	1% 1/10W 1% 1/10W	0603	Resistor
X1/X12/R6	RESISTOR	75 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/K3 X1/X12/C1	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r	01111011011		3011120 11111		001010
X1/X12/U1		unknown		DT switc	
X1/R12 RESISTO		1% 1/10		Resisto	
X1/R11 RESISTO		1% 1/10		Resisto	
X1/C7 CAPACITO		16WVDC			capacitor
X1/R10 RESISTON X1/C6 CAPACITO		1% 1/10 16WVDC		Resisto	r capacitor
X1/C32 CAPACITO		50WVDC			capacitor
X1/U3 MAX308C		unknown		analog	
X1/C31 CAPACITO		50WVDC			capacitor
X1/U2 AD5328	unknown unknown				_
X1/X1/C11	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r x1/x1/010		2 2 II		0.00	C
X1/X1/C12 r	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
X1/X1/C2	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r		_			I SIL I I I I
X1/X1/C13	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
r X1/X1/C10	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
r x1 /x1 /D00	D H G T G M O D	CO 41	10 1/10;	0.602	D
X1/X1/R20	RESISTOR	604k	1% 1/10W	0603	Resistor
X1/X1/R10   X1/X1/C1	RESISTOR CAPACITOR	604k 22nF	1% 1/10W 50WVDC X7R	0603 0603	Resistor Ceramic capacito
r	CAPACITUR	Z Z 11F	JUWVDC A/K	0003	Ceramic Capacito
<u> </u>					

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X1/X1/R18	RESISTOR	10	1% 1W 2512	Resisto	r
X1/X1/C9 r	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
X1/X1/R12 X1/X1/Q2	RESISTOR LM195H unknown	33.2k	1% 1/10W TO39 unknown	0603	Resistor
X1/X1/Q2 X1/X1/C7 r	CAPACITOR	47pF	50WVDC NP0	0603	Ceramic capacito
X1/X1/R16 X1/X1/Q3	RESISTOR PNP_TRANSISTOR	4.99k MMBT290	1% 1/10W 7A unknown	0603	Resistor unknown
X1/X1/Q3 X1/X1/R8	RESISTOR	10	1% 1W 2512	Resisto	
X1/X1/R6 X1/X1/C8	CAPACITOR	luF	25WVDC X7R	1812	Ceramic capacito
x1/x1/R2	RESISTOR	301k	1% 1/10W	0603	Resistor
X1/X1/C6	CAPACITOR	330pF	50WVDC NP0	0603	Ceramic capacito
r X1/X1/R6	RESISTOR	10k	1% 1/10W	0603	Resistor
X1/X1/Q1	LM195H unknown			0.500	
X1/X1/R17	RESISTOR	10k	1% 1/10W	0603	Resistor
X1/X1/R7	RESISTOR	10k	1% 1/10W	0603	Resistor
X1/X1/C5 r	CAPACITOR	330pF	50WVDC NP0	0603	Ceramic capacito
X1/X1/C4 r	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
X1/X1/C3	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/U2	DUAL_OPAMP	LM6142A		S08	generic dual ope
rational amplif		LINOI 12A.	III IV/A	500	generic duar ope
X1/X1/R1	RESISTOR	54.9k	1% 1/10W	0603	Resistor
X1/X1/R3	RESISTOR	54.9k	1% 1/10W 1% 1/10W	0603	Resistor
X1/X1/R3 X1/X1/R4	RESISTOR	34.9k 301k	1% 1/10W 1% 1/10W	0603	Resistor
X1/X1/U1	DUAL_OPAMP	LM6142A		SO8	generic dual ope
rational amplif		LM6142A	IM N/A	500	generic dual ope
_		0 1	166000 370	0603	Comemia comesite
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	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
X1/X2/C5	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
r X1/X2/R2	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X1/X2/R2 X1/X2/R1	RESISTOR	3.74k	1% 1/10W 1% 1/10W	0603	Resistor
X1/X2/R1 X1/X2/R7	RESISTOR RESISTOR	3.74k	1% 1/10W 1% 1/10W	0603	Resistor
X1/X2/R7 X1/X2/R6	RESISTOR	3.74k	1% 1/10W 1% 1/10W	0603	Resistor
X1/X2/X0 X1/X2/X2/Q1	PMOS_TRANSISTOR				generic P channe
	r (enhancement ty		JIN UIIKIIOWII	IUZSZAA	Actients b change
X1/X2/X2/Q2	NMOS_TRANSISTOR	-	VI unlen or m	$T \cap C \subseteq C \setminus X \setminus X$	generic N channe
	r (enhancement ty		ullKillOWII	IUZSZAA	Actients in citatille
T MOD CLAMBIBLO.	r (eimancement t)	λ h ⊆ )			

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X1/X2/X2/R6	RESISTOR	3.74k	1% 1/1	DW	0603	Resistor
X1/X2/X2/R5	RESISTOR	3.74k	1% 1/1		0603	Resistor
X1/X2/X2/R4	RESISTOR	3.74k	1% 1/1		0603	Resistor
X1/X2/X2/R3	RESISTOR	3.74k	1% 1/1		0603	Resistor
X1/X2/X2/R7	RESISTOR	200	1% 1/1		0603	Resistor
X1/X2/X2/Q4	NPN_TRANSISTOR	MMBT2222		unknown		unknown
X1/X2/X2/Q3	PNP_TRANSISTOR	MMBT290		unknown		unknown
X1/X2/X2/R2	RESISTOR	1	1% 1W	2512	Resisto	
X1/X2/X2/R1	RESISTOR	1	1% 1W	2512	Resistor	
X1/X2/X1/Q1	PMOS_TRANSISTOR					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	3.74k	1% 1/1	WC	0603	Resistor
X1/X2/X1/R5	RESISTOR	3.74k	1% 1/1	WC	0603	Resistor
X1/X2/X1/R4	RESISTOR	3.74k	1% 1/1	WC	0603	Resistor
X1/X2/X1/R3	RESISTOR	3.74k	1% 1/1	WC	0603	Resistor
X1/X2/X1/R7	RESISTOR	200	1% 1/1	WC	0603	Resistor
X1/X2/X1/Q4	NPN_TRANSISTOR	MMBT2222	2A	unknown	UB	unknown
X1/X2/X1/Q3	PNP_TRANSISTOR	MMBT2907	7A	unknown	UB	unknown
X1/X2/X1/R2	RESISTOR	1	1% 1W	2512	Resistor	r
X1/X2/X1/R1	RESISTOR	1	1% 1W	2512	Resistor	r
X1/X2/R3	RESISTOR	100	1% 1/1	WC	0603	Resistor
X1/X2/R4	RESISTOR	100	1% 1/1	WC	0603	Resistor
X1/X2/R5	RESISTOR	100	1% 1/1	WC	0603	Resistor
X1/X2/U1	DG403 unknown	unknown	S016	Dual SPI	OT switch	n
X1/X3/C2	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacito
r						_
X1/X3/C3 r	CAPACITOR	22nF	50WVDC	X7R	0603	Ceramic capacito
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 r	CAPACITOR	1uF	25WVDC	X7R	1812	Ceramic capacito
X1/X3/C6	CAPACITOR	1uF	25WVDC	X7R	1812	Ceramic capacito
r X1/X3/C5	CAPACITOR	1uF	25WVDC	v7p	1812	Ceramic capacito
r	CAPACITOR		23WVDC	X/K	1012	Ceramic Capacito
X1/X3/R2	RESISTOR	3.74k	1% 1/1		0603	Resistor
X1/X3/R1	RESISTOR		1% 1/1		0603	Resistor
X1/X3/R7	RESISTOR	3.74k	1% 1/1		0603	
X1/X3/R6	RESISTOR	3.74k	1% 1/1		0603	Resistor
X1/X3/X2/Q1	PMOS_TRANSISTOR	IRFR9120	NC	unknown	TO252AA	generic P channe
l MOS transisto: X1/X3/X2/Q2	r (enhancement ty NMOS TRANSISTOR		N	unknown	TO252AA	generic N channe
	r (enhancement ty					
X1/X3/X2/R6	RESISTOR	3.74k	1% 1/1	WC	0603	Resistor
X1/X3/X2/R5	RESISTOR	3.74k	1% 1/1		0603	Resistor
X1/X3/X2/R4	RESISTOR	3.74k	1% 1/1		0603	Resistor
X1/X3/X2/R3	RESISTOR	3.74k	1% 1/1		0603	
X1/X3/X2/R7	RESISTOR	200	1% 1/1		0603 0603	Resistor
X1/X3/X2/Q4	NPN_TRANSISTOR			unknown		unknown
X1/X3/X2/Q3	PNP_TRANSISTOR			unknown		unknown
X1/X3/X2/R2	RESISTOR	1	1% 1W			
X1/X3/X2/R1	RESISTOR	1	1% 1W		Resistor	
X1/X3/X1/Q1	PMOS_TRANSISTOR	IRFR9120				generic P channe
	r (enhancement ty					-

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X1/X3/X1/Q2	NMOS TRANSISTOR	TRFR2201	N .	ıınknown	TO252AA	generic N channe
	r (enhancement ty			21110 W11		551102 20 11 0110111110
X1/X3/X1/R6	RESISTOR	3.74k	1% 1/	′10W	0603	Resistor
X1/X3/X1/R5	RESISTOR	3.74k	1% 1/		0603	Resistor
X1/X3/X1/R4	RESISTOR	3.74k	1% 1/		0603	Resistor
X1/X3/X1/R4 X1/X3/X1/R3	RESISTOR	3.74k	1% 1/		0603	Resistor
X1/X3/X1/R7 X1/X3/X1/R7	RESISTOR	200	1% 1/		0603	Resistor
X1/X3/X1/Q4	NPN_TRANSISTOR	MMBT222		unknown		unknown
X1/X3/X1/Q4 X1/X3/X1/Q3	PNP_TRANSISTOR	MMBT290		unknown		unknown
X1/X3/X1/Q3 X1/X3/X1/R2	RESISTOR	1	7A 1% 1W		Resisto	
X1/X3/X1/R2 X1/X3/X1/R1	RESISTOR	1	1% 1W		Resistor	
X1/X3/R3	RESISTOR	100	1% 1/		0603	Resistor
X1/X3/R4	RESISTOR	100	1% 1/		0603	Resistor
X1/X3/R4 X1/X3/R5	RESISTOR	100	1% 1/		0603	Resistor
X1/X3/K3 X1/X3/U1		unknown			DT switch	
X1/X3/01 X1/X4/C2	CAPACITOR	0.1uF		Dual SP DC X7R	0603	Ceramic capacito
	CAPACITOR	U.lur	TOWAD	C A/R	0003	Ceramic Capacito
r   X1/X4/C3	CAPACITOR	22nF		oc x7r	0603	Ceramic capacito
	CAPACITOR	Z Z I I F	SUWVD	C A/R	0603	Ceramic Capacito
r   v1 /v4 /01	CAPACITOR	22nF		OC X7R	0603	Ceramic capacito
X1/X4/C1	CAPACITOR	ZZIIF	SUWVD	C X/R	0603	Ceramic Capacito
r x1/x4/07		1	0 E 1:17 7D	NG W7D	1010	
X1/X4/C7	CAPACITOR	1uF	∠5WVD	DC X7R	1812	Ceramic capacito
r	GA DA GITTOD	1 -	0 = 1 = 1		1010	G ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
X1/X4/C4	CAPACITOR	1uF	25WVD	DC X7R	1812	Ceramic capacito
r	G1-1-G1-0-1	1	0 =		1010	~ .
X1/X4/C6	CAPACITOR	1uF	25WVD	oc x7r	1812	Ceramic capacito
r				_		
X1/X4/C5	CAPACITOR	1uF	25WVD	DC X7R	1812	Ceramic capacito
r						
X1/X4/R2	RESISTOR	3.74k	1% 1/		0603	Resistor
X1/X4/R1	RESISTOR	3.74k	1% 1/		0603	Resistor
X1/X4/R7	RESISTOR	3.74k	1% 1/		0603	Resistor
X1/X4/R6	RESISTOR	3.74k	1% 1/		0603	Resistor
X1/X4/X2/Q1	PMOS_TRANSISTOR		NC	unknown	TO252AA	generic P channe
	r (enhancement ty					
X1/X4/X2/Q2	NMOS_TRANSISTOR		N	unknown	TO252AA	generic N channe
	r (enhancement ty					
X1/X4/X2/R6	RESISTOR	3.74k	1% 1/		0603	Resistor
X1/X4/X2/R5	RESISTOR	3.74k	1% 1/	′10W	0603	Resistor
X1/X4/X2/R4	RESISTOR	3.74k	1% 1/		0603	Resistor
X1/X4/X2/R3	RESISTOR	3.74k	1% 1/		0603	Resistor
X1/X4/X2/R7	RESISTOR	200	1% 1/	10W	0603	Resistor
X1/X4/X2/Q4	NPN_TRANSISTOR	MMBT222	2A	unknown	UB	unknown
X1/X4/X2/Q3	PNP_TRANSISTOR	MMBT290		unknown	UB	unknown
X1/X4/X2/R2	RESISTOR	1	1% 1W		Resisto	r
X1/X4/X2/R1	RESISTOR	1	1% 1W		Resisto	
X1/X4/X1/Q1	PMOS_TRANSISTOR	IRFR912			TO252AA	generic P channe
	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/		0603	Resistor
X1/X4/X1/R4	RESISTOR	3.74k	1% 1/		0603	Resistor
X1/X4/X1/R3	RESISTOR	3.74k	1% 1/		0603	Resistor
X1/X4/X1/R7	RESISTOR	200	1% 1/		0603	Resistor
X1/X4/X1/Q4	NPN_TRANSISTOR	MMBT222		unknown		unknown
X1/X4/X1/Q1 X1/X4/X1/Q3	PNP_TRANSISTOR	MMBT290		unknown		unknown
X1/X1/X1/Q3 X1/X4/X1/R2	RESISTOR	1	71 1% 1W		Resisto	
X1/X4/X1/R1	RESISTOR	1	1% 1W		Resistor	
			_ J _ T//	. 2512	1001001	-

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X1/X4/R3	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X4/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X4/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X4/U1	DG403 unknown				
X1/X10/C5	CAPACITOR	4.7uF	10WVDC X7R	1812	Ceramic capacito
r		1. / 41	1011/10	1012	ceramic capacite
X1/X10/R22	RESISTOR	604k	1% 1/10W	0603	Resistor
X1/X10/R21	RESISTOR	604k	1% 1/10W	0603	Resistor
X1/X10/C10	CAPACITOR	luF	25WVDC X7R	1812	Ceramic capacito
r	01111011011	_ 3.1	2011/20 21/21		
X1/X10/C9	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
r X1/X10/C4	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r					
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	MMBT2907			unknown
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	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	CAPACITOR	4.7pF	100WVDC NP0	0603	Ceramic capacito
r		_			_
X1/X10/Q1	NPN_TRANSISTOR	MMBT2222			unknown
X1/X10/R7	RESISTOR	499	1% 1/10W	0603	Resistor
X1/X10/R10	RESISTOR		1% 1/10W	0603	Resistor
X1/X10/U1	DUAL_OPAMP	LM6142A	IM N/A	S08	generic dual ope
rational amplif:		1.01	10 1/10**	0.600	<b>5</b>
X1/X10/R8	RESISTOR	10k	1% 1/10W	0603	Resistor
X1/X10/R2	RESISTOR	26.7k	1% 1/10W	0603	Resistor
X1/X10/R1	RESISTOR	34.0k	1% 1/10W	0603	Resistor
X1/X10/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r v1/v10/p2	D T C T C T C T C T C T C T C T C T C T	1 1-	1 9 1 / 1 ∩ t.t	0602	Pogiator
X1/X10/R3	RESISTOR	1k	1% 1/10W 1% 1/10W	0603	Resistor
X1/X10/R4	RESISTOR	32.4k	•	0603	Resistor Resistor
X1/X10/R5	RESISTOR	301k	1% 1/10W	0603	
X1/X10/R6	RESISTOR	20k	1% 1/10W	0603	Resistor
X1/X10/C3   r	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
X1/X10/R9	RESISTOR	16.9	1% 1/10W	0603	Resistor
X1/X10/Q3	PNP_TRANSISTOR	MMBT290			unknown
X1/X10/Q2	PNP_TRANSISTOR	MMBT290			unknown
X1/X9/R9	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X9/R8	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X9/R7	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X9/R6	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X9/R3	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X9/C3	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito

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r					J
x1/x9/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X9/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r	0111101101	0 1 = 0.1	2011/20 11/11		colomic carefolds
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 switc	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	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r w1 /w0 /D5	D D G T G T O D	100	10 1/10**	0.603	<b>.</b>
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	CO16 Dual	SPDT switc	h
X1/X0/01 X1/X7/R9	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X7/R9 X1/X7/R8	RESISTOR	75 75	1% 1/10W 1% 1/10W	0603	Resistor
X1/X7/R6 X1/X7/R7	RESISTOR	75 75	1% 1/10W 1% 1/10W	0603	Resistor
X1/X7/R6	RESISTOR	75 75	1% 1/10W 1% 1/10W	0603	Resistor
X1/X7/R0 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	CAPACITOR	22111	JUWVDC X/K	0003	Ceramic Capacito
x1/x7/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X7/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r					
X1/X7/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X7/C1	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r					
X1/X7/U1	DG403 unknown	unknown	SO16 Dual	SPDT switc	
X1/X6/R9	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X6/R8	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X6/R7	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X6/R6	RESISTOR	75	1% 1/10W	0603	Resistor
X1/X6/R3	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X6/C3	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r	D D G T G T O D	100	10 1/10**	0.603	<b>.</b>
X1/X6/R4	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X6/C2 r	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
x1/x6/R5	RESISTOR	100	1% 1/10W	0603	Resistor
X1/X6/R5 X1/X6/C1	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacito
r	C111 11C1 1 OIK	2 2 1 1 1 1	SOWADC WIL	0005	ccramic capacito
x1/x6/U1	DG403 unknown	unknown	SO16 Dual	SPDT switc	h
X1/X5/C5	CAPACITOR	4.7uF	10WVDC X7R	1812	Ceramic capacito
r	- <del></del>	<del></del>		<b>-</b>	
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					
X1/X5/C9	CAPACITOR	1uF	25WVDC X7R	1812	Ceramic capacito
r	a. p., a	0 1 -	1 (	0.505	
X1/X5/C4	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito

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r						
x1/x5/R20	RESISTOR	10	1% 1/10	W	0603	Resistor
X1/X5/C8	CAPACITOR	1uF	25WVDC		1812	Ceramic capacito
r	01111011011	_ 0.1		,		columno capaciones
X1/X5/R18	RESISTOR	10k	1% 1/10	W	0603	Resistor
X1/X5/Q6	NPN_TRANSISTOR	MMBT222		unknown		unknown
X1/X5/R19	RESISTOR		1% 1/10'		0603	Resistor
X1/X5/Q5	NPN_TRANSISTOR	MMBT222	•	unknown		unknown
X1/X5/Q3 X1/X5/R16	RESISTOR	20k	1% 1/10°		0603	Resistor
X1/X5/R17	RESISTOR	499	1% 1/10		0603	Resistor
X1/X5/Q4	PNP_TRANSISTOR	MMBT290		unknown		unknown
X1/X5/C7	CAPACITOR	0.1uF	16WVDC		0603	Ceramic capacito
r	CHILICITOR	0.141	IOWVDC .	21 / 10	0005	ceramic capacito
X1/X5/R13	RESISTOR	1k	1% 1/10	TAT	0603	Resistor
X1/X5/R14	RESISTOR	32.4k	1% 1/10		0603	Resistor
X1/X5/C6	CAPACITOR	4.7pF	100WVDC		0603	Ceramic capacito
r	C/11/1011 OIC	1.751	TOOMVDC	111 0	0005	ceramic capacito
X1/X5/R15	RESISTOR	301k	1% 1/10	W	0603	Resistor
X1/X5/R11	RESISTOR	10	1% 1/10		0603	Resistor
X1/X5/C1	CAPACITOR	4.7pF	100WVDC		0603	Ceramic capacito
r	CLIEVCTION	1. / Pr	T 0 0 W V D C	INE O	0000	ccramic capacito
x1/x5/Q1	NPN_TRANSISTOR	MMBT222	27	unknown	IID	unknown
X1/X5/Q1 X1/X5/R7	RESISTOR	499	2A 1% 1/10'		0603	Resistor
X1/X5/R10	RESISTOR	49.9	1% 1/10		0603	Resistor
X1/X5/U1	DUAL_OPAMP	LM6142A		w N/A	SO8	generic dual ope
		LMO142A	T 1v1	N/A	500	generic dual ope
rational amplif:		10k	1% 1/10	T.7	0603	Dogiston
X1/X5/R8	RESISTOR	10k 26.7k				Resistor
X1/X5/R2	RESISTOR		1% 1/10		0603	Resistor
X1/X5/R1	RESISTOR	34.0k	1% 1/10°		0603	Resistor
X1/X5/C2	CAPACITOR	0.1uF	16WVDC	X/R	0603	Ceramic capacito
Y1 /YF /D2	DEGLAMOD	11_	10. 1/10:	T.7	0.00	Danishas
X1/X5/R3	RESISTOR	1k	1% 1/10		0603	Resistor
X1/X5/R4	RESISTOR	32.4k	1% 1/10		0603	Resistor
X1/X5/R5	RESISTOR	301k	1% 1/10		0603	Resistor
X1/X5/R6	RESISTOR	20k	1% 1/10°		0603	Resistor
X1/X5/C3	CAPACITOR	1uF	25WVDC	X/R	1812	Ceramic capacito
r x1/x5/D0	DEGEGEOR	16 0	10 1/10	T. T	0.602	Danish at an
X1/X5/R9	RESISTOR	16.9	1% 1/10°		0603	Resistor
X1/X5/Q3	PNP_TRANSISTOR	MMBT290		unknown		unknown
X1/X5/Q2	PNP_TRANSISTOR	MMBT290		unknown		unknown
X1/X11/R9	RESISTOR	75 75	1% 1/10		0603	Resistor
X1/X11/R8	RESISTOR	75	1% 1/10		0603	Resistor
X1/X11/R7	RESISTOR	75	1% 1/10		0603	Resistor
X1/X11/R6	RESISTOR	75	1% 1/10		0603	Resistor
X1/X11/R3	RESISTOR	100	1% 1/10		0603	Resistor
X1/X11/C3	CAPACITOR	22nF	50WVDC	X7R	0603	Ceramic capacito
r		100			0.555	
X1/X11/R4	RESISTOR	100	1% 1/10		0603	Resistor
X1/X11/C2	CAPACITOR	0.1uF	16WVDC	x7R	0603	Ceramic capacito
r						
X1/X11/R5	RESISTOR	100	1% 1/10		0603	Resistor
X1/X11/C1	CAPACITOR	22nF	50WVDC	X7R	0603	Ceramic capacito
r						
X1/X11/U1 DG403 unknown unknown SO16 Dual SPDT switch						
X1/R9 RESISTOR		1%	0603	Resistor		
X1/R1 RESISTOR		1%	0603	Resistor		
X1/R2 RESISTOR		1%	0603	Resistor		
X1/C4 CAPACITO		100WVDC		0603		capacitor
X1/R8 RESISTOR	R 21.5	1% 1/10	M	0603	Resisto	r

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	CAPACITOR		50WVDC		0603	Ceramic capacitor
X1/C5 X1/R6	RESISTOR	49.9	1% 1/1		0603	Resistor
X1/R6 X1/C3	CAPACITOR	22nF	50WVDC		0603	Ceramic capacitor
X1/U1	DUAL OPAMP	LM6142A		N/A	SO8	generic dual operational
	ier, SO8	LINOT 4ZA.	-1·1	IV/ A	500	action and oberactoriat
X1/R7	RESISTOR	604k	1%	0603	Resisto	or
X1/R3	RESISTOR	56.2k	1%	0603	Resisto	
X1/R4	RESISTOR	200k	1%	0603	Resisto	or
X1/C1	CAPACITOR	10pF	100WVD	C NPO	0603	Ceramic capacitor
X1/R5	RESISTOR	21.5	1% 1/1	WC	0603	Resistor
X1/C2	CAPACITOR	22nF	50WVDC		0603	Ceramic capacitor
C48	POLARIZED_C		47uF	15WVDC	2711	Tantalum capacitor
C47	CAPACITOR	4.7uF	10WVDC		1812	Ceramic capacitor
C46	CAPACITOR	1uF	10WVDC		0805	Ceramic capacitor
C45	CAPACITOR	0.1uF	16WVDC		0603	Ceramic capacitor
C44	CAPACITOR	0.1uF	16WVDC		0603	Ceramic capacitor
C43 C42	CAPACITOR CAPACITOR	0.1uF	16WVDC 16WVDC		0603 0603	Ceramic capacitor
C42	CAPACITOR	0.1uF 4.7uF	10WVDC		1812	Ceramic capacitor Ceramic capacitor
C41	CAPACITOR	4.7uF 4.7uF	10WVDC		1812	Ceramic capacitor
C39	CAPACITOR	1uF	10WVDC		0805	Ceramic capacitor
C38	CAPACITOR	0.1uF	16WVDC		0603	Ceramic capacitor
C37	CAPACITOR	0.1uF	16WVDC		0603	Ceramic capacitor
C36	CAPACITOR	0.1uF	16WVDC		0603	Ceramic capacitor
C35	CAPACITOR	0.1uF	16WVDC		0603	Ceramic capacitor
C34	CAPACITOR	4.7uF	10WVDC		1812	Ceramic capacitor
C33	POLARIZED_C		47uF	15WVDC	2711	Tantalum capacitor
C32	CAPACITOR	4.7uF	10WVDC		1812	Ceramic capacitor
C31	CAPACITOR	1uF	10WVDC		0805	Ceramic capacitor
C30	CAPACITOR	0.1uF	16WVDC		0603	Ceramic capacitor
C29	CAPACITOR	0.1uF	16WVDC		0603	Ceramic capacitor
C28	CAPACITOR	0.1uF	16WVDC		0603	Ceramic capacitor
C27	CAPACITOR	0.1uF	16WVDC		0603	Ceramic capacitor
C26 C25	CAPACITOR	4.7uF 4.7uF	10WVDC 10WVDC		1812 1812	Ceramic capacitor
C25	CAPACITOR CAPACITOR	4.7uF 1uF	10WVDC		0805	Ceramic capacitor Ceramic capacitor
C24	CAPACITOR	0.1uF	16WVDC		0603	Ceramic capacitor
C23	CAPACITOR	0.1uF	16WVDC		0603	Ceramic capacitor
C21	CAPACITOR	0.1uF	16WVDC		0603	Ceramic capacitor
C20	CAPACITOR	0.1uF	16WVDC		0603	Ceramic capacitor
C19	POLARIZED_C		220uF	6WVDC	2915	Tantalum capacitor
C18	CAPACITOR	4.7uF	10WVDC		1812	Ceramic capacitor
C17	CAPACITOR	1uF	10WVDC		0805	Ceramic capacitor
C16	CAPACITOR	0.1uF	16WVDC		0603	Ceramic capacitor
C15	POLARIZED_C		220uF	6WVDC	2915	Tantalum capacitor
C14	CAPACITOR	1uF	10WVDC		0805	Ceramic capacitor
C13	CAPACITOR	0.1uF	16WVDC		0603	Ceramic capacitor
C12	CAPACITOR	4.7uF	10WVDC		1812	Ceramic capacitor
C11	CAPACITOR	4.7uF	10WVDC		1812	Ceramic capacitor
C10	CAPACITOR	1uF	10WVDC		0805	Ceramic capacitor
C59 C58	CAPACITOR	0.1uF	16WVDC		0603 0603	Ceramic capacitor
C58	CAPACITOR	0.1uF 0.1uF	16WVDC 16WVDC		0603	Ceramic capacitor
C57	CAPACITOR CAPACITOR	0.1uF 0.1uF	16WVDC		0603	Ceramic capacitor Ceramic capacitor
C55	POLARIZED_C		220uF	6WVDC	2915	Tantalum capacitor
C54	POLARIZED_C		47uF	15WVDC	2711	Tantalum capacitor
C53	CAPACITOR	4.7uF	10WVDC		1812	Ceramic capacitor
C52	CAPACITOR	1uF	10WVDC		0805	Ceramic capacitor
C51	CAPACITOR	0.1uF	16WVDC		0603	Ceramic capacitor
1						

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R67	RESISTOR	20	1% 1/10W	0603	Resistor	
R68	RESISTOR	62	1% 1/10W	0805	Resistor	•
R62	RESISTOR	3.74k	1% 1/10W	0603	Resistor	
U1	MAX308CSE+		unknown S016		analog m	
C84	CAPACITOR	22nF	50WVDC X7R	0603	_	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		capacitor
C73	CAPACITOR	10nF	50WVDC X7R	0603		capacitor
C77	CAPACITOR	1uF	10WVDC X7R	0805		capacitor
C74	CAPACITOR	10nF	50WVDC X7R	0603		capacitor
R70	RESISTOR	750	1% 1/10W	0603	Resistor	
R69	RESISTOR	750	1% 1/10W	0603	Resistor	
C75	CAPACITOR	0.1uF	16WVDC X7R	0603		capacitor
C76	CAPACITOR	0.1uF	16WVDC X7R	0603		capacitor
U2	AD7984BRMZ		unknown MSOP10	ADC	CCLAINIC	Capacitoi
C94	CAPACITOR	10pF	100WVDC NP0	0603	Ceramic	capacitor
R59	RESISTOR	604k	1% 0603	Resisto		Capacitoi
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		
R54	RESISTOR	604k	1% 0603	Resistor		
R52	RESISTOR	24.9k	1% 0603	Resistor		
C70		24.9k 22nF	50WVDC X7R	0603		annagi tar
	CAPACITOR		1% 1/10W			capacitor
R60 R61	RESISTOR	3.74k 3.74k		0603 0603	Resistor Resistor	
U3	RESISTOR		1% 1/10W			
C71	MAX308CSE+	22nF	unknown SO16 50WVDC X7R	0603	analog m	capacitor
R5	CAPACITOR					CapaCICOI
U6	RESISTOR	121k	1% 0603	Resistor		
U5	DUAL_OPAMP DUAL_OPAMP	LT2078A		SO8 SO8	unknown	
C63	CAPACITOR	0.1uF	IS8 N/A 16WVDC X7R	0603	unknown	annagi tar
R7		51.1	1% 1/10W	0603	Resistor	capacitor
	RESISTOR					
C61	CAPACITOR	22nF	50WVDC X7R	0603 0603	Ceramic	capacitor
C60 R3	CAPACITOR	0.1uF 51.1	16WVDC X7R		Resistor	capacitor
R3 R1	RESISTOR		1% 1/10W 1% 1/10W	0603		
R1 R14	RESISTOR	51.1	1% 1/10W 1% 0603	0603	Resistor	
R14 R15	RESISTOR	8.87k		Resistor		
	RESISTOR	71.5k		Resistor		
R13 R4	RESISTOR	140k	1% 0603	Resistor		
	RESISTOR	121k	1% 0603	Resistor		
R2 C96	RESISTOR	121k	1% 0603	Resisto		annagi tar
C96	CAPACITOR	0.1uF	16WVDC X7R	0603		capacitor
	CAPACITOR	0.1uF	16WVDC X7R	0603		capacitor
R99	RESISTOR	100	5% 1/10W	0603	Resistor	
R98	RESISTOR	100	5% 1/10W	0603	Resistor	
U12	MAX9180 unknown					
U11	MAX9180 unknown			00 001 0	200	
Js	StackConn	unknown	unknown RC422-20	JU-201-39	900	Stacking connect
or D71	DEGLOSS	4 001	1.0	D ' .	_	
R71	RESISTOR	4.99k	1% 0603	Resistor		
C88	CAPACITOR	0.1uF	16WVDC X7R	0603		capacitor
U8			unknown FP14		Mount Os	
R84	RESISTOR	DNP	5% 1/10W	0603	Resistor	`
J8	Header unknown	unknown	HEADER16	unknown		

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R83	RESISTOR	DNP	5% 1/10W	0603	Resistor
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	MDM9S unknown	unknown	MDM9S unknown		
C99	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
U9	DS26LV32A	unknown	unknown CFP16	unknown	
J9	HEADER14	87832-14	unknown	HEADER1	4SMT2MM 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	Artix XC7A50T	-1FGG4840	C unknown	BGA484	unknown

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