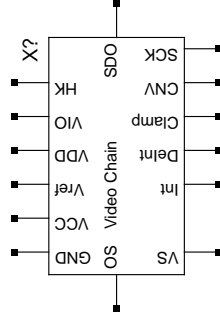


+1-303-816-2756 jpd@noqsi.com

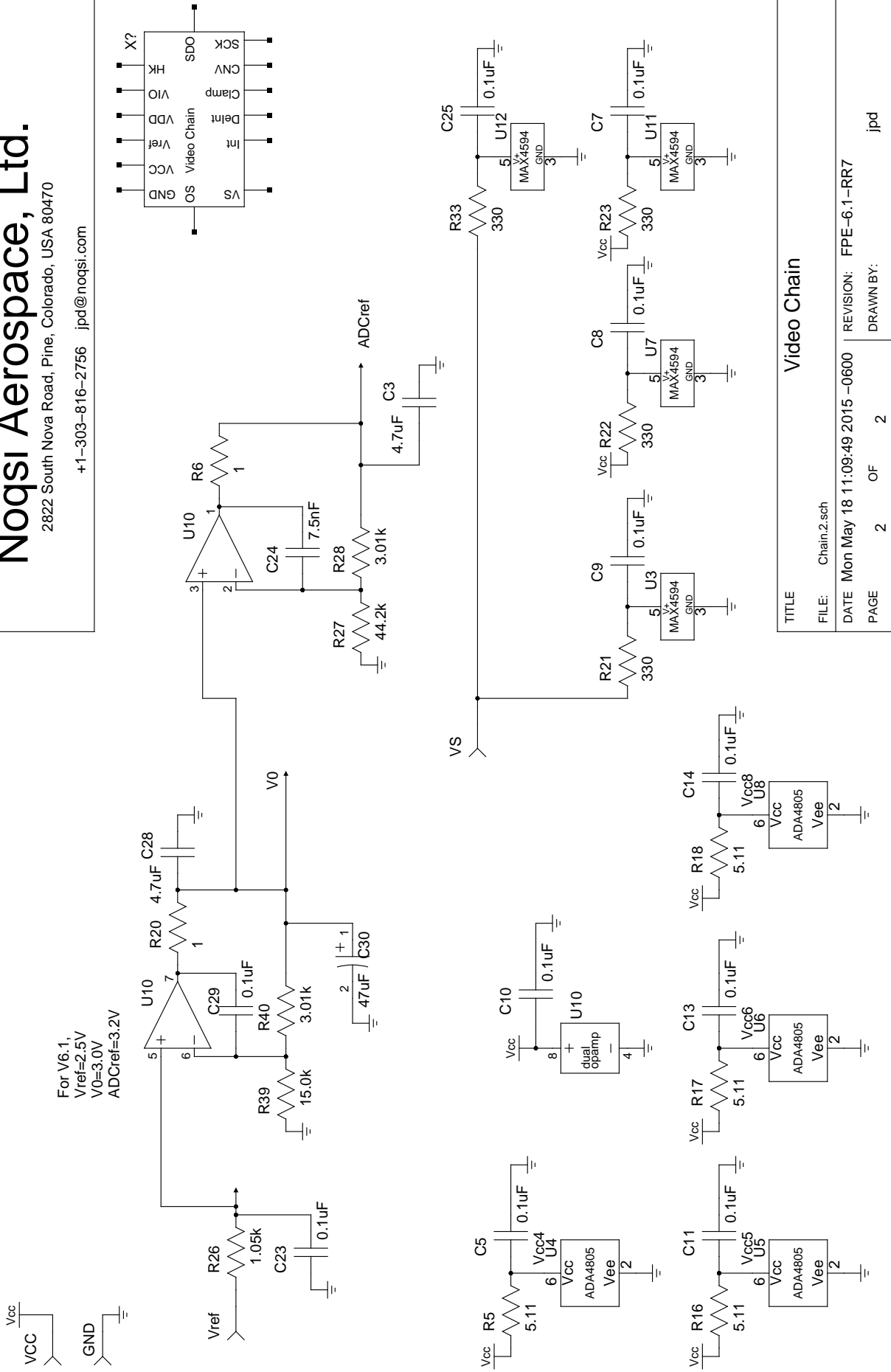


PAGE 1 OF 2 DRAWN BY: jpd

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Video Chain

FILE: Chain.2.sch

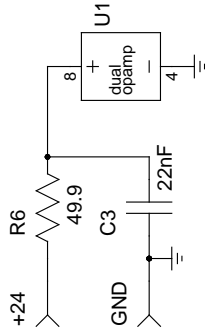
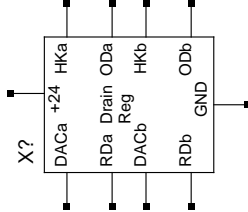
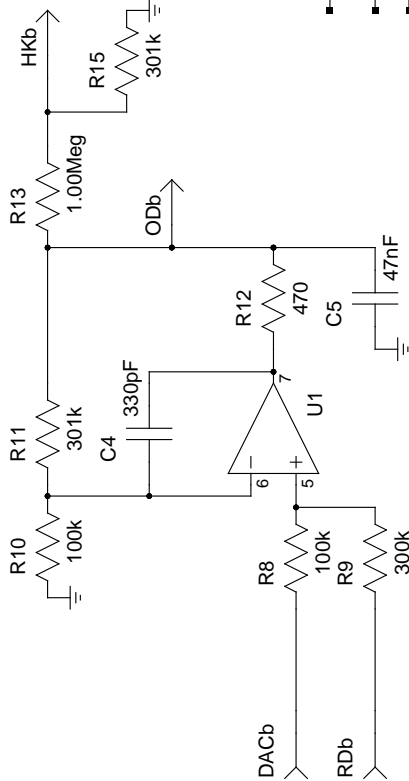
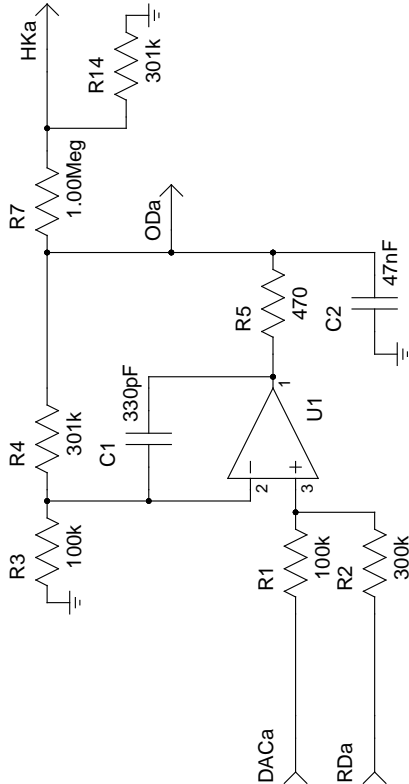
DATE Mon May 18 11:09:49 2015 -0600 REVISION: FPE-6.1-RR7

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CCD Output Drain Regulator

TITLE: DrainRegulator.sch

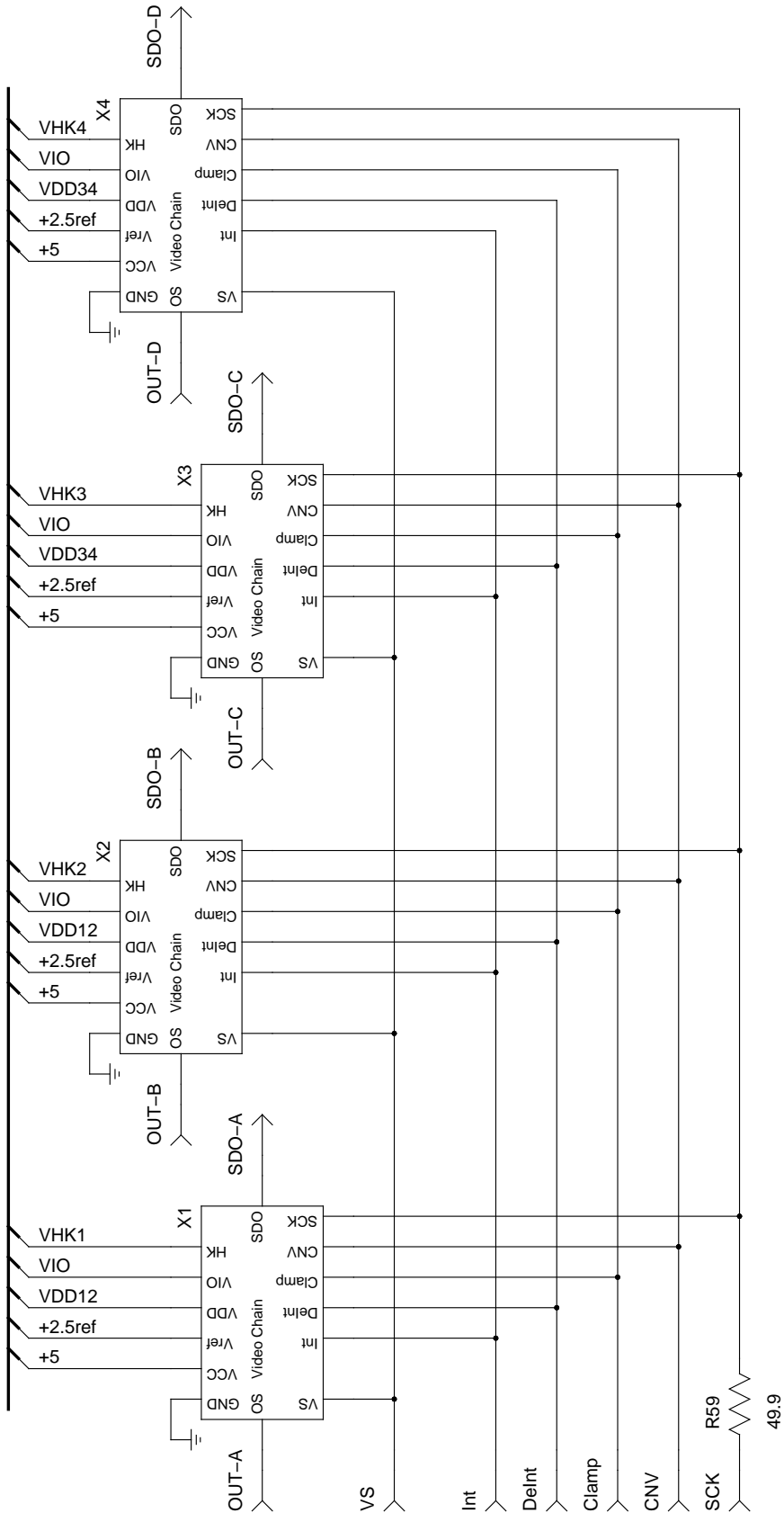
FILE: Mon May 18 11:09:49 2015 -0600 REVISION: FPE-6.1-RR7

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Per-chip Circuitry

FILE: PerChip.1.sch

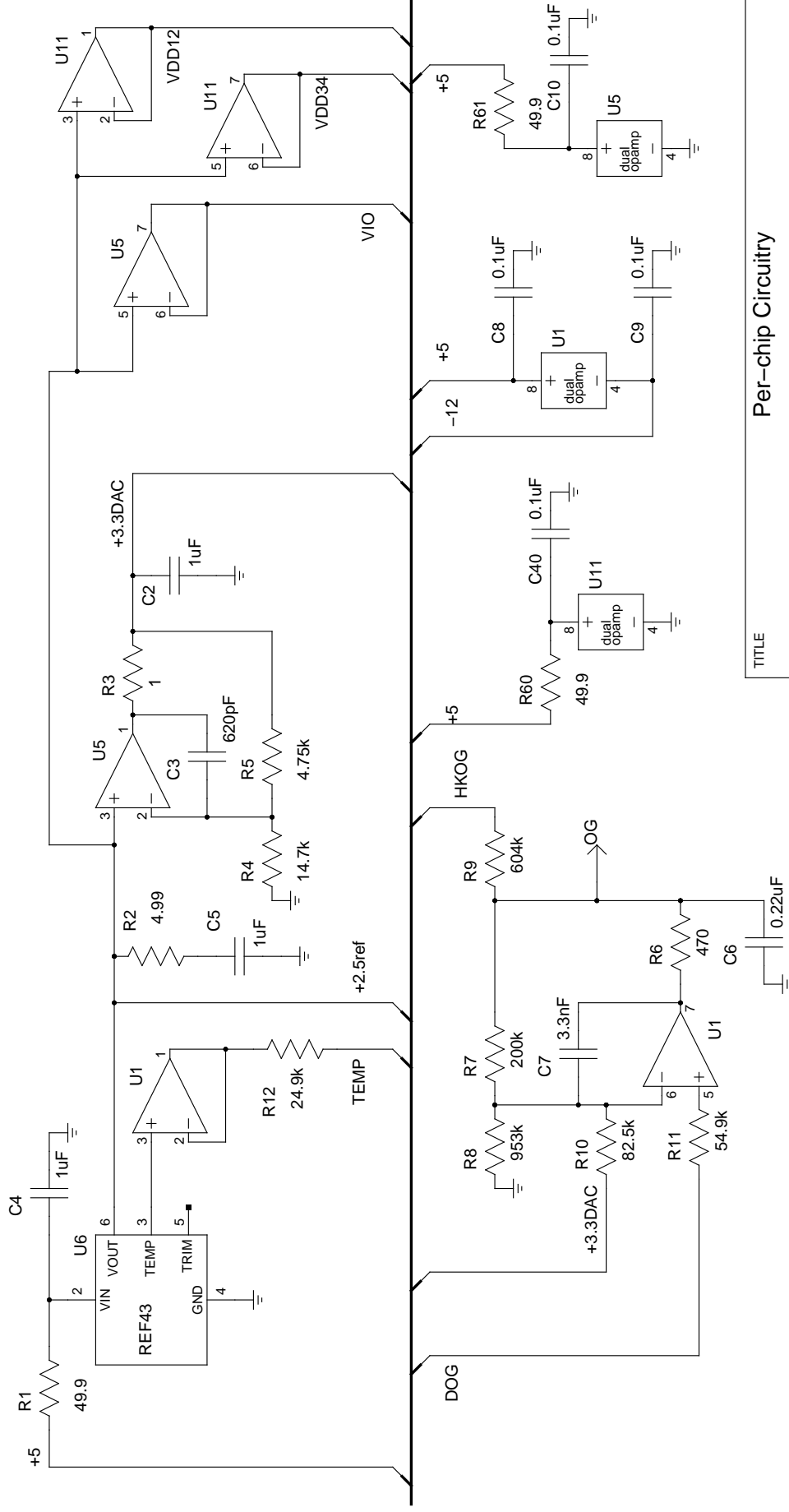
DATE Mon May 18 11:09:49 2015 -0600 REVISION: FPE-6.1-RR7

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Per-chip Circuitry

FILE: PerChip.2.sch

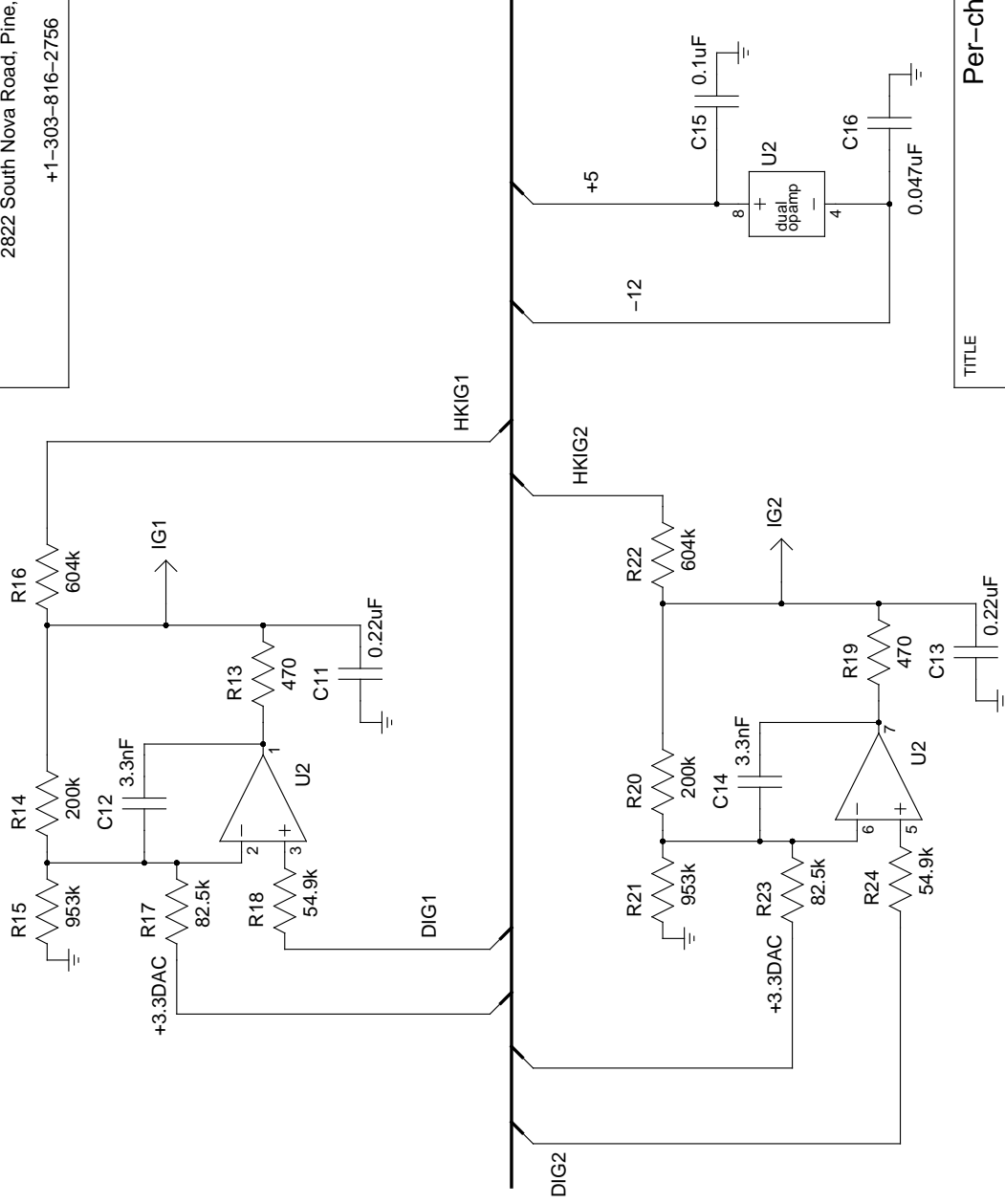
DATE Mon May 18 11:09:49 2015 -0600 REVISION: FPE-6.1-RR7

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Per-chip Circuitry

FILE: PerChip.3.sch

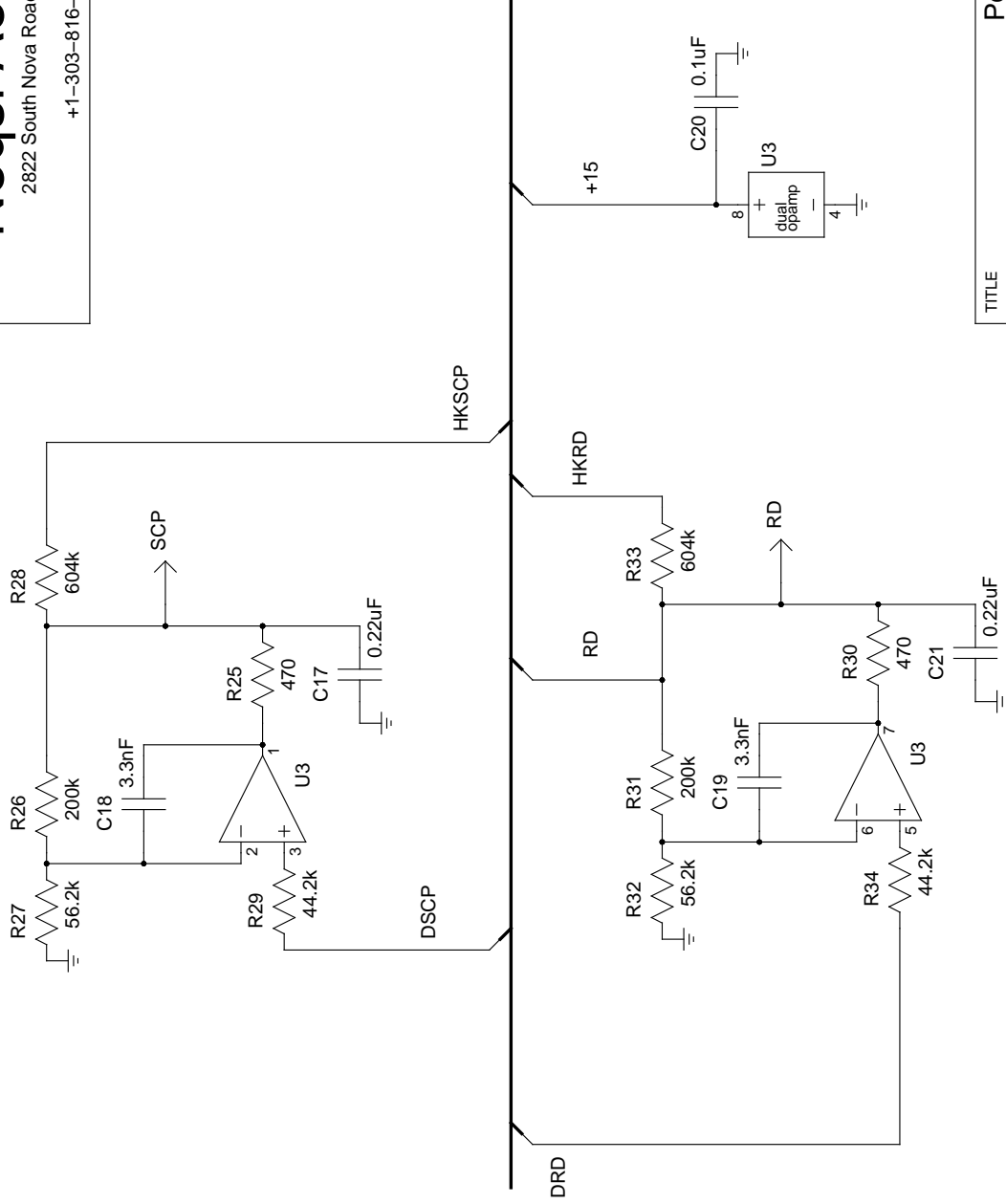
DATE Mon May 18 11:09:49 2015 -0600 REVISION: FPE-6.1-RR7

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Per-chip Circuitry

FILE: PerChip.4.sch

DATE: Mon May 18 11:09:49 2015 -0600

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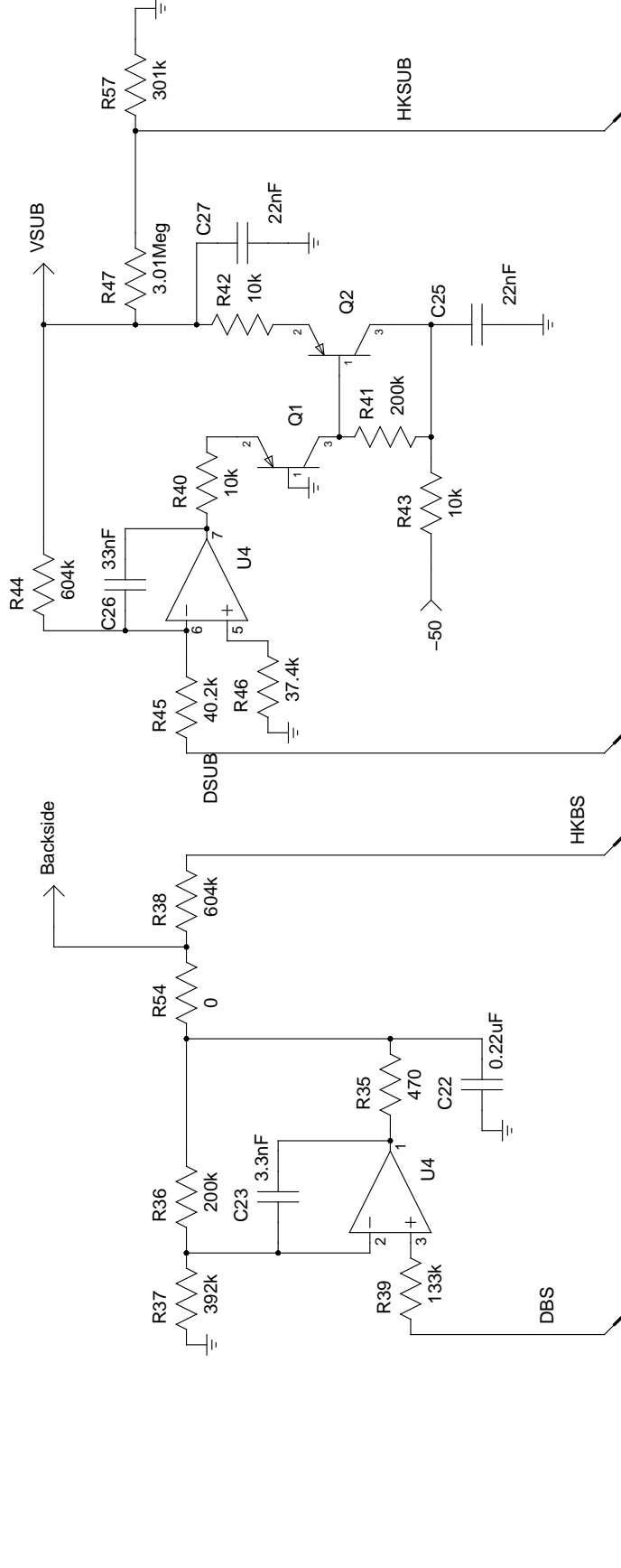
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Note:

For a focal plane with common backside connections, populate R54 only for the channel you want to have control the backside bias.



Per-chip Circuitry

TITLE
FILE: PerChip.5.sch

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

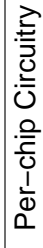
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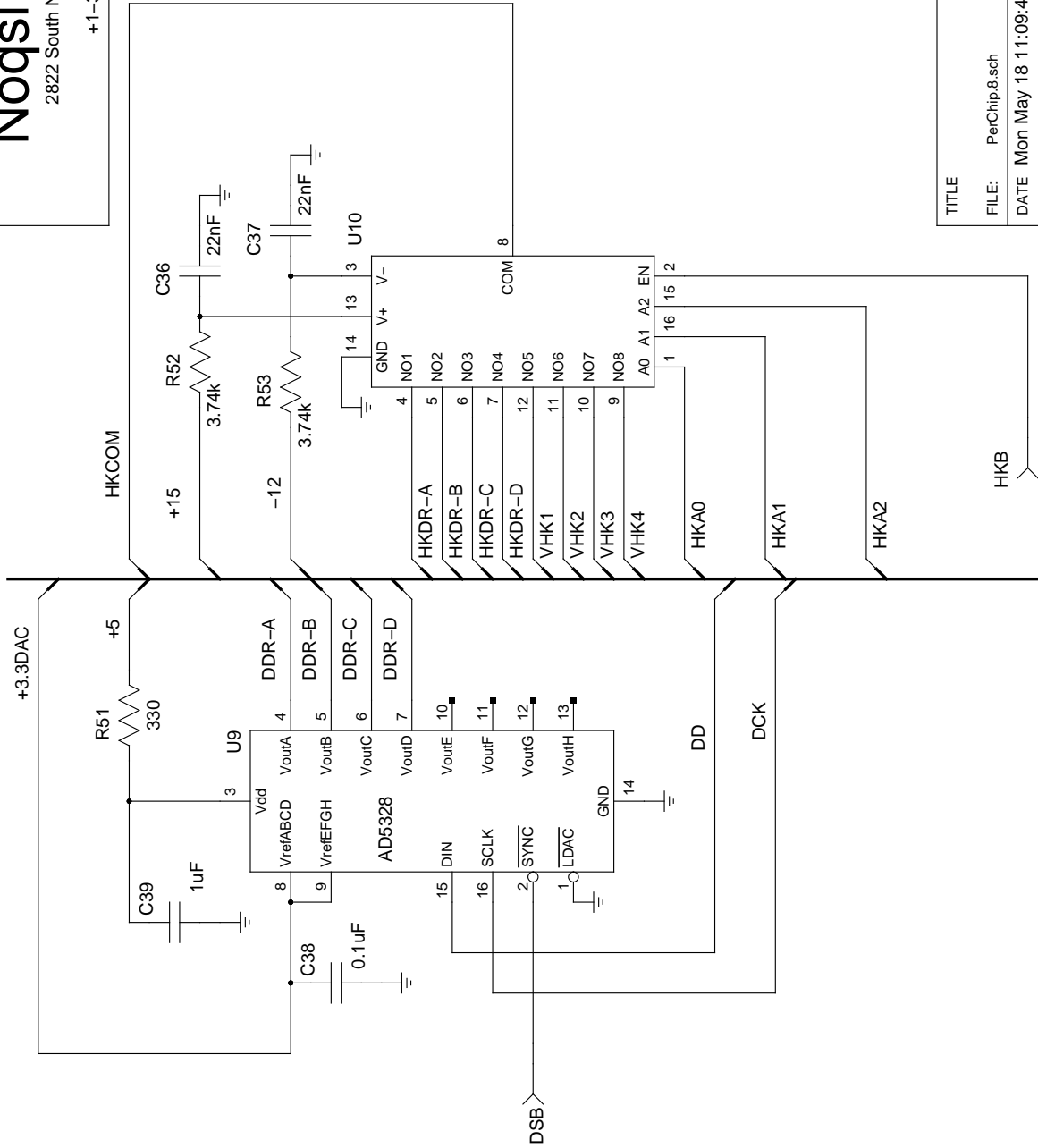


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Per-chip Circuitry

FILE: PerChip.8.sch

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

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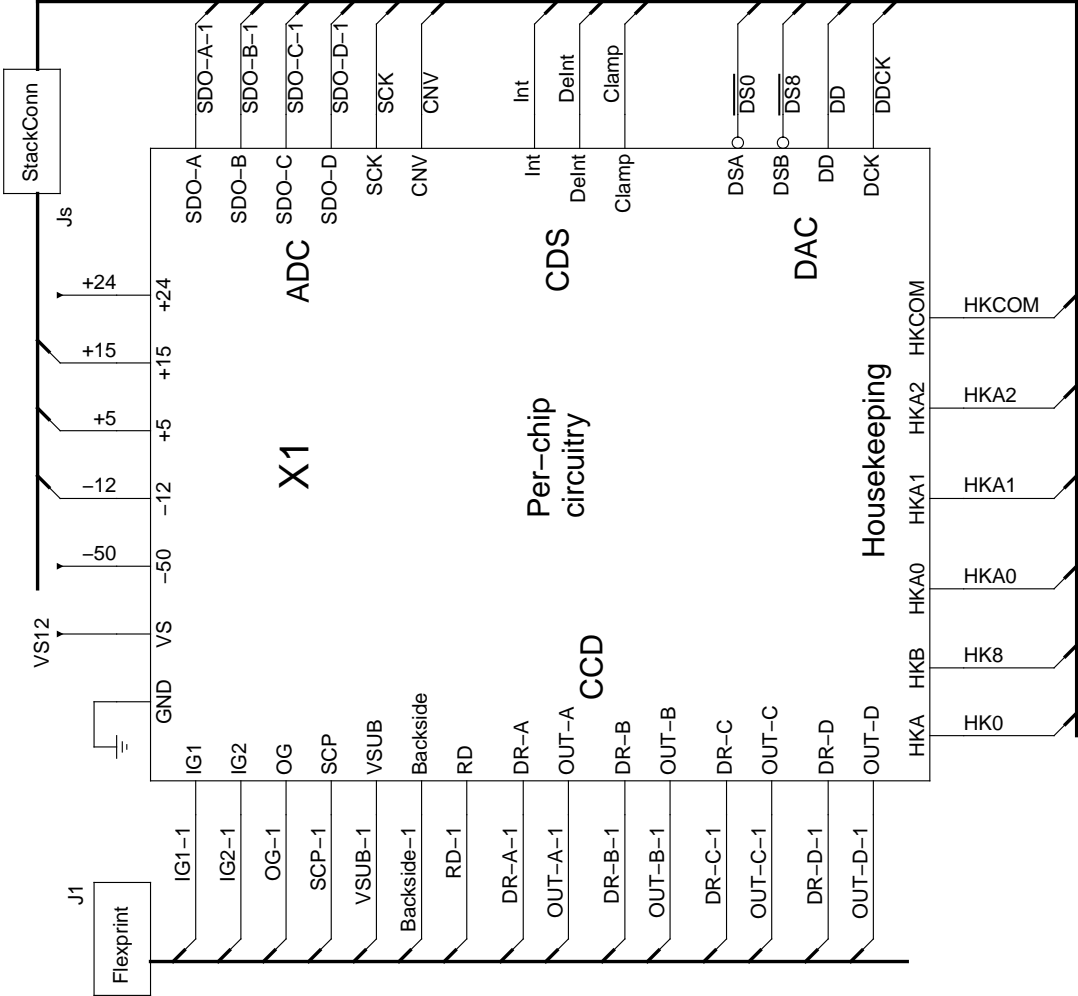


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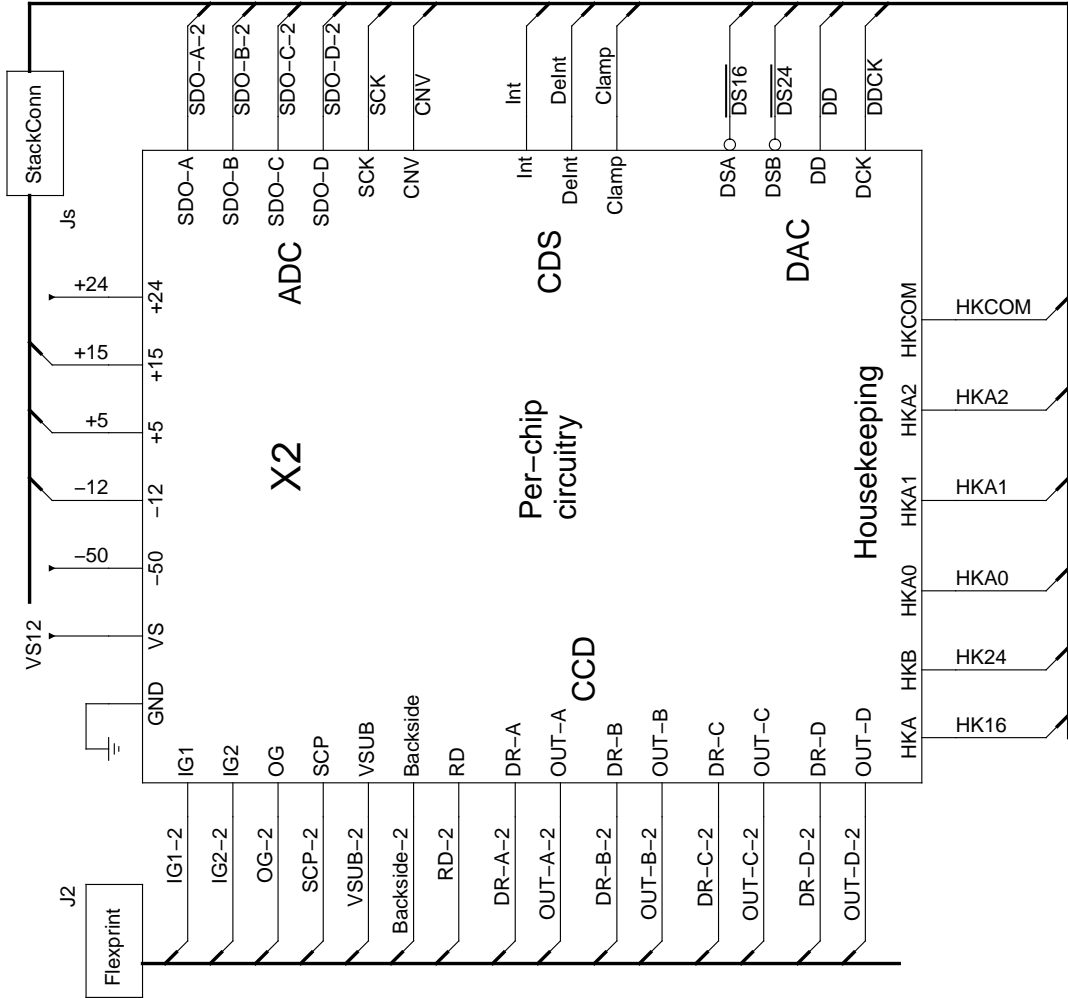


TITLE				Video Board			
FILE:				Video.1.sch			
DATE				Mon May 18 11:09:49 2015 -0600			
REVISION:				FPE-6.1-RR7			
PAGE				1	OF	8	jpd
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TITLE
FILE: Video.2.sch

Video Board

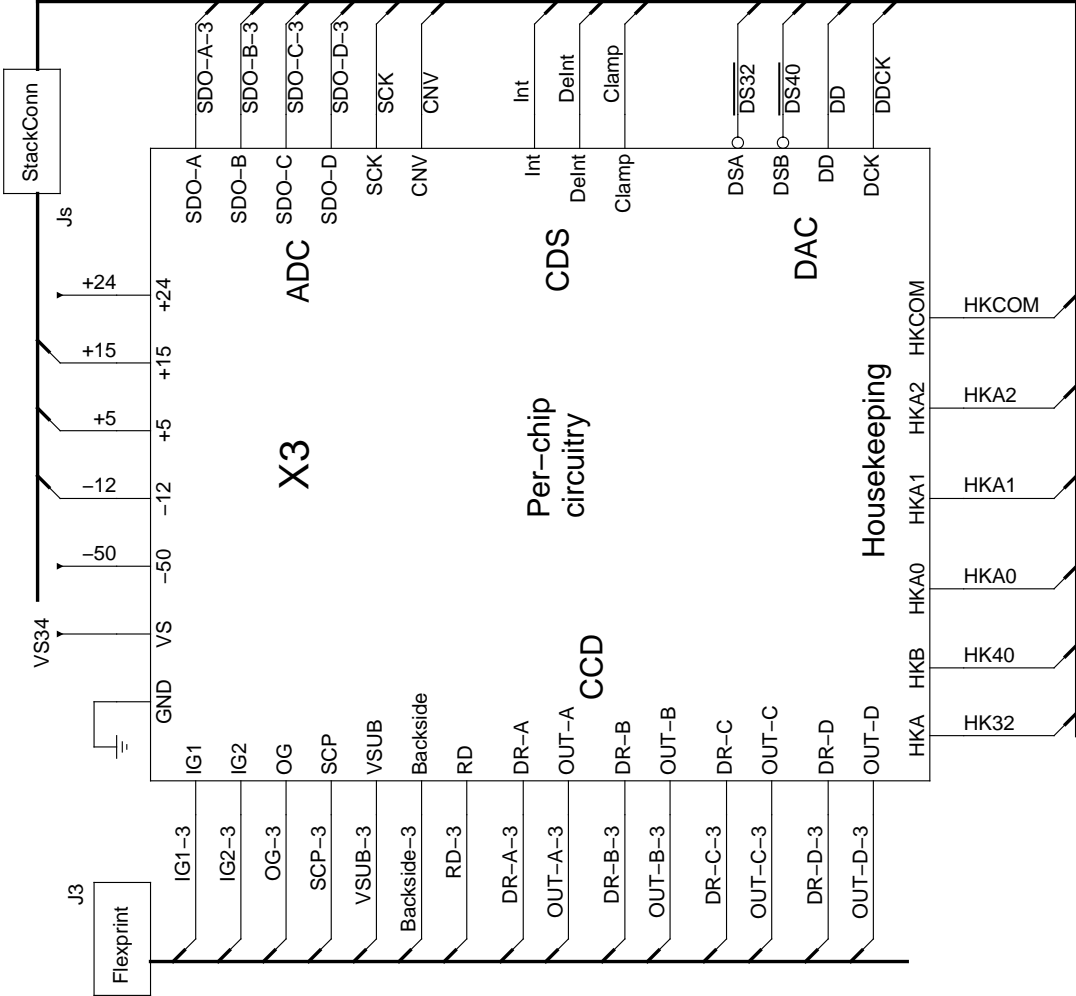
DATE Mon May 18 11:09:49 2015 -0600 REVISION: FPE-6.1-RR7

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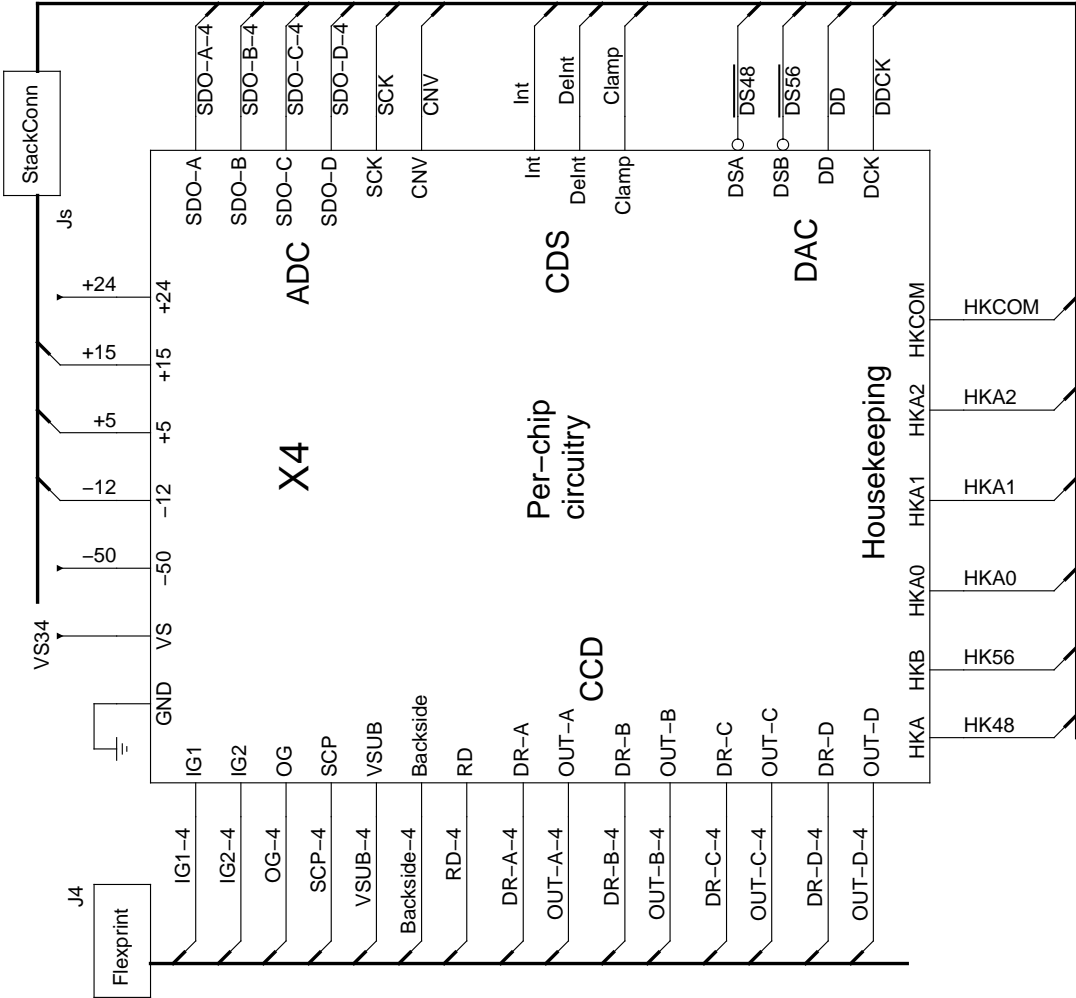


TITLE				Video Board			
FILE:				Video.3.sch			
DATE				Mon May 18 11:09:49 2015 -0600			
PAGE				3 OF 8			
				REVISION: FPE-6.1-RR7			
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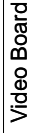
TITLE
FILE: Video.4.sch

Video Board

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

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FILE: Video.5.sch

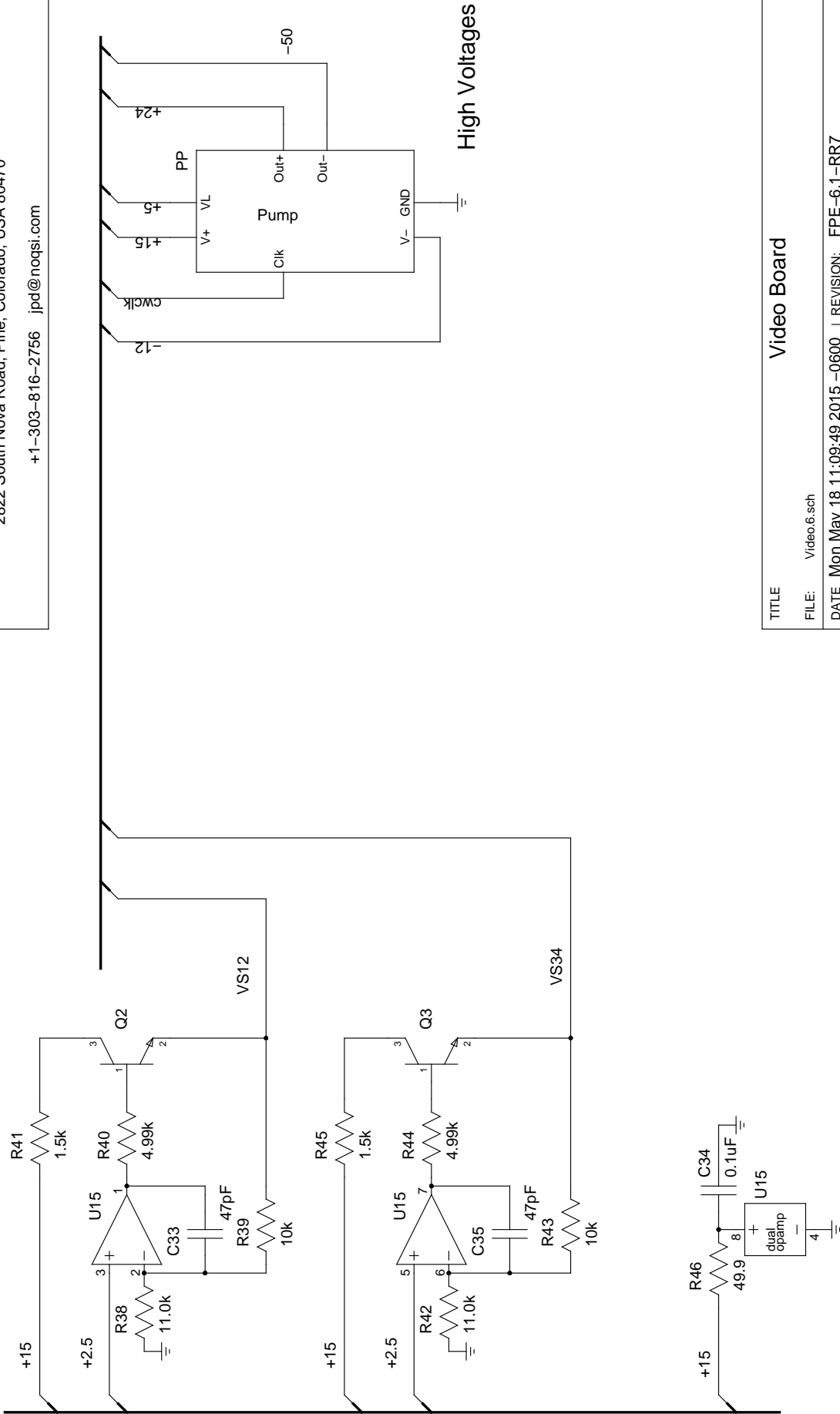
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Video Board

FILE: Video.6.sch

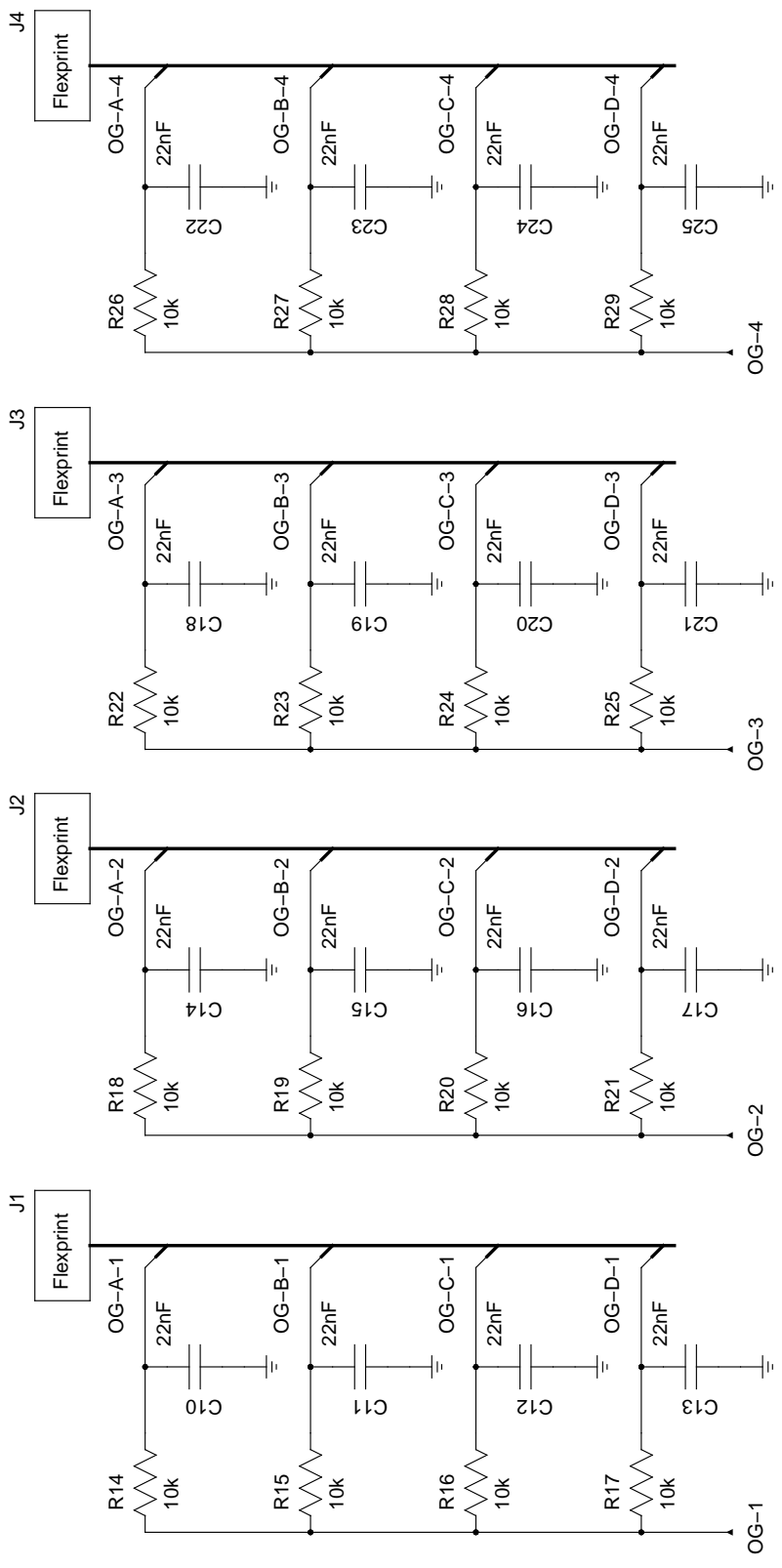
DATE Mon May 18 11:09:49 2015 -0600 REVISION: FPE-6.1-RR7

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Video Board

FILE: Video.7.sch

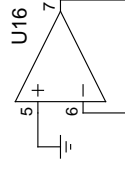
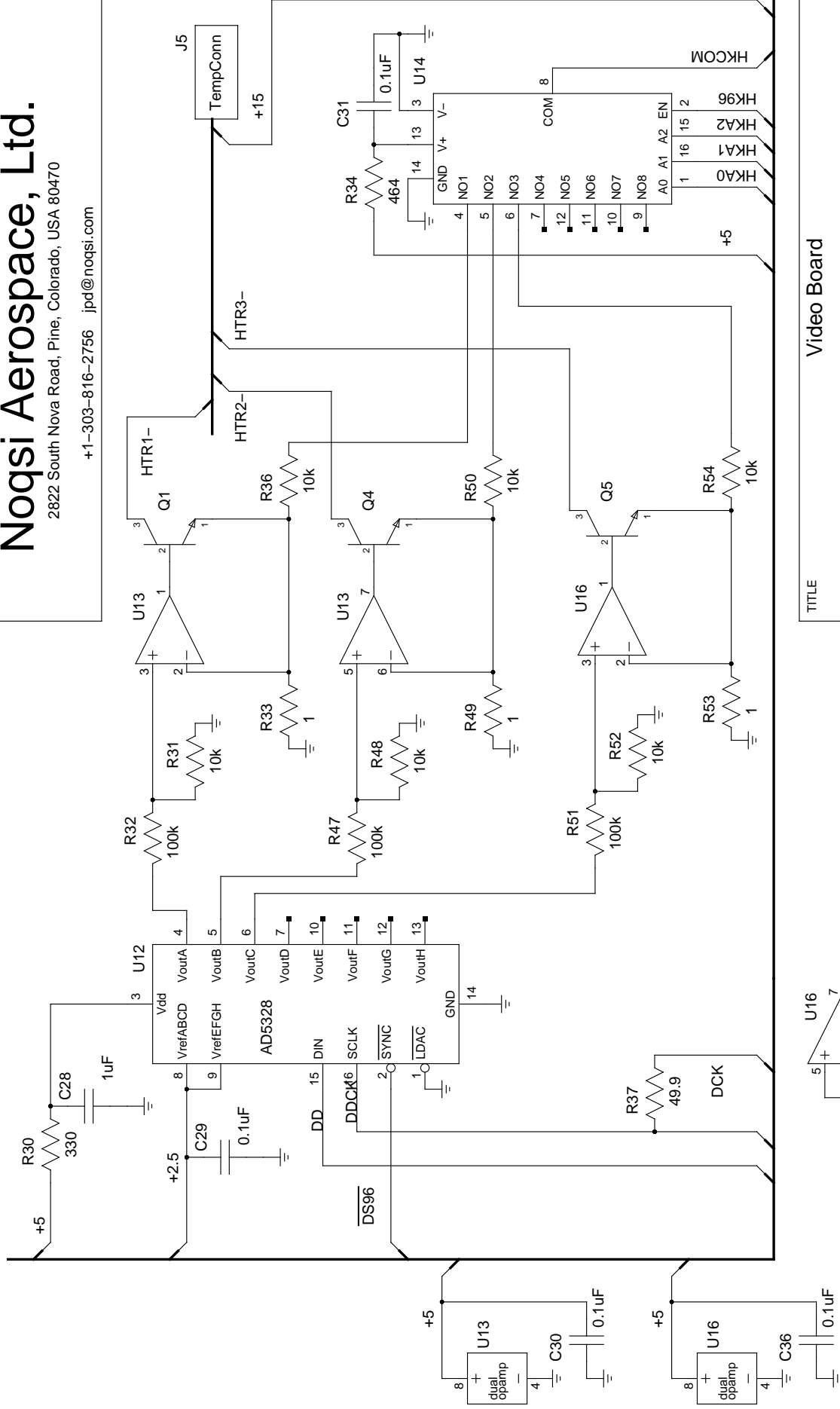
DATE Mon May 18 11:09:49 2015 -0600 REVISION: FPE-6.1-RR7

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Video Board

TITLE
FILE: Video.8.sch

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

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May 18, 15 11:13		Video.bom.txt			Page 1/42	
refdes	device	value	spec	footprint	description	
C30	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
R54	RESISTOR	10k	1%	1/10W	0603	Resistor
R53	RESISTOR	1	1%	1/10W	0603	Resistor
Q5	LM195H	unknown	unknown	TO39	unknown	
R51	RESISTOR	100k	1%	1/10W	0603	Resistor
R52	RESISTOR	10k	1%	1/10W	0603	Resistor
R50	RESISTOR	10k	1%	1/10W	0603	Resistor
R49	RESISTOR	1	1%	1/10W	0603	Resistor
Q4	LM195H	unknown	unknown	TO39	unknown	
R47	RESISTOR	100k	1%	1/10W	0603	Resistor
R48	RESISTOR	10k	1%	1/10W	0603	Resistor
U16	DUAL_OPAMP	LT2078AIS8		N/A	SO8	unknown
C36	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
R36	RESISTOR	10k	1%	1/10W	0603	Resistor
R33	RESISTOR	1	1%	1/10W	0603	Resistor
Q1	LM195H	unknown	unknown	TO39	unknown	
R32	RESISTOR	100k	1%	1/10W	0603	Resistor
R31	RESISTOR	10k	1%	1/10W	0603	Resistor
U13	DUAL_OPAMP	LT2078AIS8		N/A	SO8	unknown
C28	CAPACITOR	1uF	10WVDC	X7R	0805	Ceramic capacitor
R30	RESISTOR	330	5%	0.15W	0805	Resistor
R37	RESISTOR	49.9	1%	1/10W	0603	Resistor
C31	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
R34	RESISTOR	464	1%	1/10W	0603	Resistor
U14	MAX308CSE+	unknown	unknown	SO16	8 input	analog mux
C29	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
U12	AD5328	unknown	unknown	TSSOP16	Octal	DAC
R17	RESISTOR	10k	1%	1/10W	0603	Resistor
C13	CAPACITOR	22nF	50WVDC	X7R	0603	Ceramic capacitor
R16	RESISTOR	10k	1%	1/10W	0603	Resistor
C12	CAPACITOR	22nF	50WVDC	X7R	0603	Ceramic capacitor
R15	RESISTOR	10k	1%	1/10W	0603	Resistor
C11	CAPACITOR	22nF	50WVDC	X7R	0603	Ceramic capacitor
R14	RESISTOR	10k	1%	1/10W	0603	Resistor
C10	CAPACITOR	22nF	50WVDC	X7R	0603	Ceramic capacitor
R21	RESISTOR	10k	1%	1/10W	0603	Resistor
C17	CAPACITOR	22nF	50WVDC	X7R	0603	Ceramic capacitor
R20	RESISTOR	10k	1%	1/10W	0603	Resistor
C16	CAPACITOR	22nF	50WVDC	X7R	0603	Ceramic capacitor
R19	RESISTOR	10k	1%	1/10W	0603	Resistor
C15	CAPACITOR	22nF	50WVDC	X7R	0603	Ceramic capacitor
R18	RESISTOR	10k	1%	1/10W	0603	Resistor
C14	CAPACITOR	22nF	50WVDC	X7R	0603	Ceramic capacitor
R25	RESISTOR	10k	1%	1/10W	0603	Resistor
C21	CAPACITOR	22nF	50WVDC	X7R	0603	Ceramic capacitor
R24	RESISTOR	10k	1%	1/10W	0603	Resistor
C20	CAPACITOR	22nF	50WVDC	X7R	0603	Ceramic capacitor
R23	RESISTOR	10k	1%	1/10W	0603	Resistor
C19	CAPACITOR	22nF	50WVDC	X7R	0603	Ceramic capacitor
R22	RESISTOR	10k	1%	1/10W	0603	Resistor
C18	CAPACITOR	22nF	50WVDC	X7R	0603	Ceramic capacitor
R29	RESISTOR	10k	1%	1/10W	0603	Resistor
C25	CAPACITOR	22nF	50WVDC	X7R	0603	Ceramic capacitor
R28	RESISTOR	10k	1%	1/10W	0603	Resistor
C24	CAPACITOR	22nF	50WVDC	X7R	0603	Ceramic capacitor
R27	RESISTOR	10k	1%	1/10W	0603	Resistor
C23	CAPACITOR	22nF	50WVDC	X7R	0603	Ceramic capacitor
R26	RESISTOR	10k	1%	1/10W	0603	Resistor

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C22	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacitor		
R46	RESISTOR	49.9	1% 1/10W	0603	Resistor		
C35	CAPACITOR	47pF	50WVDC NP0	0603	Ceramic capacitor		
C33	CAPACITOR	47pF	50WVDC NP0	0603	Ceramic capacitor		
R45	RESISTOR	1.5k	1% 1/4W 0603	Resistor			
R44	RESISTOR	4.99k	1% 1/10W	0603	Resistor		
Q3	NPN_TRANSISTOR	MMBT2222A	unknown	UB	unknown		
R43	RESISTOR	10k	1% 1/10W	0603	Resistor		
R42	RESISTOR	11.0k	1% 1/10W	0603	Resistor		
C34	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacitor		
R41	RESISTOR	1.5k	1% 1/4W 0603	Resistor			
R40	RESISTOR	4.99k	1% 1/10W	0603	Resistor		
Q2	NPN_TRANSISTOR	MMBT2222A	unknown	UB	unknown		
R39	RESISTOR	10k	1% 1/10W	0603	Resistor		
R38	RESISTOR	11.0k	1% 1/10W	0603	Resistor		
U15	DUAL_OPAMP	LM6142AIM	N/A	SO8	generic dual operational		
amplifier, SO8							
PP/C14	CAPACITOR	0.68uF	50WVDC X7R	1812	Ceramic capacitor		
PP/R13	RESISTOR	23.7	1% 1/10W	0603	Resistor		
PP/C13	CAPACITOR	22nF	100WVDC X7R	0805	Ceramic capacitor		
PP/R12	RESISTOR	200	1% 1/10W	0603	Resistor		
PP/C12	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor		
PP/R11	RESISTOR	100	5% 1/4W 1206	Resistor			
PP/C10	CAPACITOR	0.27uF	25WVDC X7R	1206	Ceramic capacitor		
PP/R3	RESISTOR	60.4k	1% 1/10W	0603	Resistor		
PP/R2	RESISTOR	30.1k	1% 1/10W	0603	Resistor		
PP/R1	RESISTOR	16.9	1% 1/10W	0603	Resistor		
PP/Q4	PMOS_TRANSISTOR	IRFR9120N	unknown	TO252AA	generic P channel MOS tr		
ansistor (enhancement type)							
PP/Q1	PNP_TRANSISTOR	MMBT2907A	unknown	UB	unknown		
PP/C11	CAPACITOR	0.27uF	25WVDC X7R	1206	Ceramic capacitor		
PP/C9	CAPACITOR	DNP	50WVDC X7R	0603	Ceramic capacitor		
PP/C8	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacitor		
PP/C7	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacitor		
PP/C6	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacitor		
PP/D8	DIODE	1N914UR	N/A	DO213AA	Signal Diode		
PP/D7	DIODE	1N914UR	N/A	DO213AA	Signal Diode		
PP/D6	DIODE	1N914UR	N/A	DO213AA	Signal Diode		
PP/D5	DIODE	1N914UR	N/A	DO213AA	Signal Diode		
PP/D4	DIODE	1N914UR	N/A	DO213AA	Signal Diode		
PP/C5	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacitor		
PP/D3	DIODE	1N914UR	N/A	DO213AA	Signal Diode		
PP/C4	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacitor		
PP/D2	DIODE	1N914UR	N/A	DO213AA	Signal Diode		
PP/C3	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacitor		
PP/R10	RESISTOR	20	1% 1/10W	0603	Resistor		
PP/C2	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacitor		
PP/D1	DIODE	1N914UR	N/A	DO213AA	Signal Diode		
PP/R9	RESISTOR	100	1% 1/10W	0603	Resistor		
PP/Q6	PNP_TRANSISTOR	MMBT2907A	unknown	UB	unknown		
PP/R8	RESISTOR	100	1% 1/10W	0603	Resistor		
PP/Q5	NPN_TRANSISTOR	MMBT2222A	unknown	UB	unknown		
PP/R7	RESISTOR	100	5% 1/10W	0603	Resistor		
PP/C1	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor		
PP/U1	DG403	unknown	unknown	SO16	Dual SPDT switch		
PP/R6	RESISTOR	133k	1% 1/10W	0603	Resistor		
PP/R5	RESISTOR	26.7k	1% 1/10W	0603	Resistor		
PP/R4	RESISTOR	16.9	1% 1/10W	0603	Resistor		
PP/Q3	NMOS_TRANSISTOR	IRFR220N	unknown	TO252AA	generic N channel MOS tr		

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Video.bom.txt

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ansistor (enhancement type)

PP/Q2	NPN_TRANSISTOR	MMBT2222A	unknown	UB	unknown
U1	DUAL_OPAMP	LT2078AIS8	N/A	SO8	unknown
C6	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
C5	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
U9	REFERENCE	REF43GS	N/A	SO8	2.5V Reference
R10	RESISTOR	100k	1% 1/10W	0603	Resistor
R9	RESISTOR	100k	1% 1/10W	0603	Resistor
R8	RESISTOR	100k	1% 1/10W	0603	Resistor
R7	RESISTOR	100k	1% 1/10W	0603	Resistor
R6	RESISTOR	7.15k	1% 1/10W	0603	Resistor
R5	RESISTOR	7.5k	1% 1/10W	0603	Resistor
C4	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
C3	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
R4	RESISTOR	464	1% 1/10W	0603	Resistor
R3	RESISTOR	464	1% 1/10W	0603	Resistor
C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
R2	RESISTOR	464	1% 1/10W	0603	Resistor
J5	TempConn	MDM31P	unknown	MDM31P	unknown
U8	MAX308CSE+	unknown	unknown	SO16	8 input analog mux
U7	MAX308CSE+	unknown	unknown	SO16	8 input analog mux
U6	MAX308CSE+	unknown	unknown	SO16	8 input analog mux
U5	MAX308CSE+	unknown	unknown	SO16	8 input analog mux
R1	RESISTOR	464	1% 1/10W	0603	Resistor
C1	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
J4	Flexprint	unknown	unknown	NK-2M2-051	Airborne 51 pin connecto
r					
X4/C39	CAPACITOR	1uF	10WVDC X7R	0805	Ceramic capacitor
X4/R51	RESISTOR	330	5% 0.15W	0805	Resistor
X4/R53	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X4/R52	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X4/C38	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X4/C37	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacitor
X4/U10	MAX308CSE+	unknown	unknown	SO16	8 input analog mux
X4/C36	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacitor
X4/U9	AD5328	unknown	unknown	TSSOP16	Octal DAC
X4/C35	CAPACITOR	1uF	10WVDC X7R	0805	Ceramic capacitor
X4/R48	RESISTOR	330	5% 0.15W	0805	Resistor
X4/R50	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X4/R49	RESISTOR	3.74k	1% 1/10W	0603	Resistor
X4/C34	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X4/C33	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacitor
X4/U8	MAX308CSE+	unknown	unknown	SO16	8 input analog mux
X4/C32	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacitor
X4/U7	AD5328	unknown	unknown	TSSOP16	Octal DAC
X4/C31	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacitor
X4/L4	EXC-3BB102H	unknown	unknown	0603	EMI chip
X4/C30	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacitor
X4/L3	EXC-3BB102H	unknown	unknown	0603	EMI chip
X4/C29	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacitor
X4/L2	EXC-3BB102H	unknown	unknown	0603	EMI chip
X4/L1	EXC-3BB102H	unknown	unknown	0603	EMI chip
X4/C28	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacitor
X4/X6/R14	RESISTOR	301k	1%	0603	Resistor
X4/X6/R15	RESISTOR	301k	1%	0603	Resistor
X4/X6/U1	DUAL_OPAMP	LT2078AIS8	N/A	SO8	unknown
X4/X6/R13	RESISTOR	1.00Meg	1%	0603	Resistor
X4/X6/R8	RESISTOR	100k	1%	0603	Resistor
X4/X6/R9	RESISTOR	300k	1%	0603	Resistor

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X4/X6/R10	RESISTOR	100k	1%	0603	Resistor		
X4/X6/R11	RESISTOR	301k	1%	0603	Resistor		
X4/X6/C4	CAPACITOR	330pF	50WVDC	X7R	0603	Ceramic capacitor	
X4/X6/R12	RESISTOR	470	1%	1/10W	0603	Resistor	
X4/X6/C5	CAPACITOR	47nF	50WVDC	X7R	0805	Ceramic capacitor	
X4/X6/C3	CAPACITOR	22nF	50WVDC	X7R	0603	Ceramic capacitor	
X4/X6/R6	RESISTOR	49.9	1%	1/10W	0603	Resistor	
X4/X6/R7	RESISTOR	1.00Meg	1%	0603	Resistor		
X4/X6/R1	RESISTOR	100k	1%	0603	Resistor		
X4/X6/R2	RESISTOR	300k	1%	0603	Resistor		
X4/X6/R3	RESISTOR	100k	1%	0603	Resistor		
X4/X6/R4	RESISTOR	301k	1%	0603	Resistor		
X4/X6/C1	CAPACITOR	330pF	50WVDC	X7R	0603	Ceramic capacitor	
X4/X6/R5	RESISTOR	470	1%	1/10W	0603	Resistor	
X4/X6/C2	CAPACITOR	47nF	50WVDC	X7R	0805	Ceramic capacitor	
X4/X5/R14	RESISTOR	301k	1%	0603	Resistor		
X4/X5/R15	RESISTOR	301k	1%	0603	Resistor		
X4/X5/U1	DUAL_OPAMP	LT2078AIS8	N/A		SO8	unknown	
X4/X5/R13	RESISTOR	1.00Meg	1%	0603	Resistor		
X4/X5/R8	RESISTOR	100k	1%	0603	Resistor		
X4/X5/R9	RESISTOR	300k	1%	0603	Resistor		
X4/X5/R10	RESISTOR	100k	1%	0603	Resistor		
X4/X5/R11	RESISTOR	301k	1%	0603	Resistor		
X4/X5/C4	CAPACITOR	330pF	50WVDC	X7R	0603	Ceramic capacitor	
X4/X5/R12	RESISTOR	470	1%	1/10W	0603	Resistor	
X4/X5/C5	CAPACITOR	47nF	50WVDC	X7R	0805	Ceramic capacitor	
X4/X5/C3	CAPACITOR	22nF	50WVDC	X7R	0603	Ceramic capacitor	
X4/X5/R6	RESISTOR	49.9	1%	1/10W	0603	Resistor	
X4/X5/R7	RESISTOR	1.00Meg	1%	0603	Resistor		
X4/X5/R1	RESISTOR	100k	1%	0603	Resistor		
X4/X5/R2	RESISTOR	300k	1%	0603	Resistor		
X4/X5/R3	RESISTOR	100k	1%	0603	Resistor		
X4/X5/R4	RESISTOR	301k	1%	0603	Resistor		
X4/X5/C1	CAPACITOR	330pF	50WVDC	X7R	0603	Ceramic capacitor	
X4/X5/R5	RESISTOR	470	1%	1/10W	0603	Resistor	
X4/X5/C2	CAPACITOR	47nF	50WVDC	X7R	0805	Ceramic capacitor	
X4/R62	RESISTOR	49.9	1%	1/10W	0603	Resistor	
X4/R57	RESISTOR	301k	1%	0603	Resistor		
X4/R54	RESISTOR	0	1%	0603	Resistor		
X4/R47	RESISTOR	3.01Meg	1%	0603	Resistor		
X4/R46	RESISTOR	37.4k	1%	0603	Resistor		
X4/C27	CAPACITOR	22nF	100WVDC	X7R	0805	Ceramic capacitor	
X4/R45	RESISTOR	40.2k	1%	0603	Resistor		
X4/C26	CAPACITOR	33nF	25WVDC	X7R	0603	Ceramic capacitor	
X4/R44	RESISTOR	604k	1%	0603	Resistor		
X4/R43	RESISTOR	10k	1%	0603	Resistor		
X4/C25	CAPACITOR	22nF	100WVDC	X7R	0805	Ceramic capacitor	
X4/R42	RESISTOR	10k	1%	0603	Resistor		
X4/Q2	PNP_TRANSISTOR	PMBTA92	unknown	UB	unknown		

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X4/R41	RESISTOR	200k	1%	0603	Resistor		
X4/R40	RESISTOR	10k	1%	0603	Resistor		
X4/Q1	PNP_TRANSISTOR	PMBTA92	unknown	UB	unknown		
X4/C24	CAPACITOR	0.1uF	25WVDC	X7R	0603	Ceramic capacitor	
X4/R39	RESISTOR	133k	1%	0603	Resistor		
X4/U4	DUAL_OPAMP amplifier, SO8	LM6142AIM		N/A	SO8	generic dual operational	
X4/R38	RESISTOR	604k	1%	0603	Resistor		
X4/R37	RESISTOR	392k	1%	0603	Resistor		
X4/R36	RESISTOR	200k	1%	0603	Resistor		
X4/C23	CAPACITOR	3.3nF	50WVDC	X7R	0603	Ceramic capacitor	
X4/R35	RESISTOR	470	1%	1/10W	0603	Resistor	
X4/C22	CAPACITOR	0.22uF	25WVDC	X7R	1206	Ceramic capacitor	
X4/U3	DUAL_OPAMP	LT2078AIS8		N/A	SO8	unknown	
X4/C21	CAPACITOR	0.22uF	25WVDC	X7R	1206	Ceramic capacitor	
X4/C20	CAPACITOR	0.1uF	25WVDC	X7R	0603	Ceramic capacitor	
X4/R34	RESISTOR	44.2k	1%	0603	Resistor		
X4/R33	RESISTOR	604k	1%	0603	Resistor		
X4/R32	RESISTOR	56.2k	1%	0603	Resistor		
X4/R31	RESISTOR	200k	1%	0603	Resistor		
X4/C19	CAPACITOR	3.3nF	50WVDC	X7R	0603	Ceramic capacitor	
X4/R30	RESISTOR	470	1%	1/10W	0603	Resistor	
X4/R29	RESISTOR	44.2k	1%	0603	Resistor		
X4/R28	RESISTOR	604k	1%	0603	Resistor		
X4/R27	RESISTOR	56.2k	1%	0603	Resistor		
X4/R26	RESISTOR	200k	1%	0603	Resistor		
X4/C18	CAPACITOR	3.3nF	50WVDC	X7R	0603	Ceramic capacitor	
X4/R25	RESISTOR	470	1%	1/10W	0603	Resistor	
X4/C17	CAPACITOR	0.22uF	25WVDC	X7R	1206	Ceramic capacitor	
X4/U2	DUAL_OPAMP	LT2078AIS8		N/A	SO8	unknown	
X4/C15	CAPACITOR	0.1uF	25WVDC	X7R	0603	Ceramic capacitor	
X4/C16	CAPACITOR	0.047uF	50WVDC	X7R	0603	Ceramic capacitor	
X4/R24	RESISTOR	54.9k	1%	0603	Resistor		
X4/R23	RESISTOR	82.5k	1%	0603	Resistor		
X4/R22	RESISTOR	604k	1%	0603	Resistor		
X4/R21	RESISTOR	953k	1%	0603	Resistor		
X4/R20	RESISTOR	200k	1%	0603	Resistor		
X4/C14	CAPACITOR	3.3nF	50WVDC	X7R	0603	Ceramic capacitor	
X4/R19	RESISTOR	470	1%	1/10W	0603	Resistor	
X4/C13	CAPACITOR	0.22uF	25WVDC	X7R	1206	Ceramic capacitor	
X4/R18	RESISTOR	54.9k	1%	0603	Resistor		
X4/R17	RESISTOR	82.5k	1%	0603	Resistor		
X4/R16	RESISTOR	604k	1%	0603	Resistor		
X4/R15	RESISTOR	953k	1%	0603	Resistor		
X4/R14	RESISTOR	200k	1%	0603	Resistor		
X4/C12	CAPACITOR	3.3nF	50WVDC	X7R	0603	Ceramic capacitor	
X4/R13	RESISTOR	470	1%	1/10W	0603	Resistor	
X4/C11	CAPACITOR	0.22uF	25WVDC	X7R	1206	Ceramic capacitor	
X4/R60	RESISTOR	49.9	1%	1/10W	0603	Resistor	
X4/R61	RESISTOR	49.9	1%	1/10W	0603	Resistor	
X4/C40	CAPACITOR	0.1uF	25WVDC	X7R	0603	Ceramic capacitor	
X4/U11	DUAL_OPAMP amplifier, SO8	LM6142AIM		N/A	SO8	generic dual operational	
X4/U1	DUAL_OPAMP	LT2078AIS8		N/A	SO8	unknown	
X4/R12	RESISTOR	24.9k	1%	1/10W	0603	Resistor	
X4/C10	CAPACITOR	0.1uF	25WVDC	X7R	0603	Ceramic capacitor	
X4/C9	CAPACITOR	0.1uF	25WVDC	X7R	0603	Ceramic capacitor	
X4/C8	CAPACITOR	0.1uF	25WVDC	X7R	0603	Ceramic capacitor	
X4/R11	RESISTOR	54.9k	1%	0603	Resistor		

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X4/R10	RESISTOR	82.5k	1%	0603	Resistor	
X4/R9	RESISTOR	604k	1%	0603	Resistor	
X4/R8	RESISTOR	953k	1%	0603	Resistor	
X4/R7	RESISTOR	200k	1%	0603	Resistor	
X4/C7	CAPACITOR	3.3nF	50WVDC	X7R 0603	Ceramic capacitor	
X4/R6	RESISTOR	470	1% 1/10W	0603	Resistor	
X4/C6	CAPACITOR	0.22uF	25WVDC	X7R 1206	Ceramic capacitor	
X4/U5	DUAL_OPAMP amplifier, SO8	LM6142AIM	N/A	SO8	generic dual operational	
X4/R5	RESISTOR	4.75k	1% 1/10W	0603	Resistor	
X4/C3	CAPACITOR	620pF	10WVDC	X7R 0805	Ceramic capacitor	
X4/R4	RESISTOR	14.7k	1% 1/10W	0603	Resistor	
X4/R3	RESISTOR	1	1% 1/10W	0603	Resistor	
X4/C2	CAPACITOR	1uF	10WVDC	X7R 0805	Ceramic capacitor	
X4/C5	CAPACITOR	1uF	10WVDC	X7R 0805	Ceramic capacitor	
X4/R2	RESISTOR	4.99	1% 1/10W	0603	Resistor	
X4/C4	CAPACITOR	1uF	10WVDC	X7R 0805	Ceramic capacitor	
X4/R1	RESISTOR	49.9	1% 1/10W	0603	Resistor	
X4/U6	REFERENCE	REF43GS	N/A	SO8 2.5V	Reference	
X4/R59	RESISTOR	49.9	1% 1/10W	0603	Resistor	
X4/X4/R27	RESISTOR	44.2k	1% 1/10W	0603	Resistor	
X4/X4/C3	CAPACITOR	4.7uF	10WVDC	X7R 1812	Ceramic capacitor	
X4/X4/C24	CAPACITOR	7.5nF	16WVDC	X7R 0603	Ceramic capacitor	
X4/X4/R28	RESISTOR	3.01k	1% 1/10W	0603	Resistor	
X4/X4/R6	RESISTOR	1	1% 1/10W	0603	Resistor	
X4/X4/C29	CAPACITOR	0.1uF	16WVDC	X7R 0603	Ceramic capacitor	
X4/X4/C30	POLARIZED_CAPACITOR	47uF	15WVDC	2711	Tantalum capacitor	
X4/X4/R39	RESISTOR	15.0k	1% 1/10W	0603	Resistor	
X4/X4/R40	RESISTOR	3.01k	1% 1/10W	0603	Resistor	
X4/X4/C28	CAPACITOR	4.7uF	10WVDC	X7R 1812	Ceramic capacitor	
X4/X4/C25	CAPACITOR	0.1uF	16WVDC	X7R 0603	Ceramic capacitor	
X4/X4/R33	RESISTOR	330	1% 1/10W	0603	Resistor	
X4/X4/R20	RESISTOR	1	1/4W	1206	Resistor	
X4/X4/C23	CAPACITOR	0.1uF	16WVDC	X7R 0603	Ceramic capacitor	
X4/X4/R26	RESISTOR	1.05k	1% 1/10W	0603	Resistor	
X4/X4/C10	CAPACITOR	0.1uF	16WVDC	X7R 0603	Ceramic capacitor	
X4/X4/U10	DUAL_OPAMP rational amplifier, SO8	LM6142AIM	N/A	SO8	generic dual ope	
X4/X4/C14	CAPACITOR	0.1uF	16WVDC	X7R 0603	Ceramic capacitor	
X4/X4/R18	RESISTOR	5.11	1% 1/10W	0603	Resistor	
X4/X4/C13	CAPACITOR	0.1uF	16WVDC	X7R 0603	Ceramic capacitor	
X4/X4/R17	RESISTOR	5.11	1% 1/10W	0603	Resistor	
X4/X4/C11	CAPACITOR	0.1uF	16WVDC	X7R 0603	Ceramic capacitor	
X4/X4/R16	RESISTOR	5.11	1% 1/10W	0603	Resistor	
X4/X4/C5	CAPACITOR	0.1uF	16WVDC	X7R 0603	Ceramic capacitor	
X4/X4/R5	RESISTOR	5.11	1% 1/10W	0603	Resistor	
X4/X4/C9	CAPACITOR	0.1uF	16WVDC	X7R 0603	Ceramic capacitor	

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r					
X4/X4/R21	RESISTOR	330	1% 1/10W	0603	Resistor
X4/X4/C8	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X4/X4/R22	RESISTOR	330	1% 1/10W	0603	Resistor
X4/X4/C7	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X4/X4/R23	RESISTOR	330	1% 1/10W	0603	Resistor
X4/X4/R42	RESISTOR	4.32k	1% 1/10W	0603	Resistor
X4/X4/R1	RESISTOR	4.32k	1% 1/10W	0603	Resistor
X4/X4/Q2	MMBFJ309	unknown	unknown SOT23		n-channel jfet
X4/X4/C22	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X4/X4/R13	RESISTOR	46.4	1% 1/10W	0603	Resistor
X4/X4/R41	RESISTOR	301k	1% 0603		Resistor
X4/X4/U6	ADA4805-1AKSZ	unknown	unknown SC70-6		Fast opamp
X4/X4/U8	ADA4805-1AKSZ	unknown	unknown SC70-6		Fast opamp
X4/X4/U5	ADA4805-1AKSZ	unknown	unknown SC70-6		Fast opamp
X4/X4/U4	ADA4805-1AKSZ	unknown	unknown SC70-6		Fast opamp
X4/X4/R24	RESISTOR	20	1% 1/10W	0603	Resistor
X4/X4/C16	CAPACITOR	1uF	10WVDC X7R	0805	Ceramic capacitor
r					
X4/X4/C4a	CAPACITOR	30pF	5% NP0 Vitreous	0505	Ceramic capacitor
r					
X4/X4/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X4/X4/R11	RESISTOR	2.00k	1% 0603		Resistor
X4/X4/U12	MAX4594DCKR	unknown	unknown SC70		SPST analog switch
X4/X4/C17	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X4/X4/R38	RESISTOR	3.00k	1% 0603		Resistor
X4/X4/U11	MAX4594DCKR	unknown	unknown SC70		SPST analog switch
X4/X4/C6	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X4/X4/U3	MAX4594DCKR	unknown	unknown SC70		SPST analog switch
X4/X4/R25	RESISTOR	1.00Meg	1% 0603		Resistor
X4/X4/R19	RESISTOR	62	5% 0.15W	0805	Resistor
X4/X4/R15	RESISTOR	3.00k	1% 0603		Resistor
X4/X4/C12	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X4/X4/R4	RESISTOR	3.00k	1% 0603		Resistor
X4/X4/C20	CAPACITOR	1nF	50WVDC C0G	0603	Ceramic capacitor
r					
X4/X4/C21	CAPACITOR	1nF	50WVDC C0G	0603	Ceramic capacitor
r					
X4/X4/R14	RESISTOR	46.4	1% 1/10W	0603	Resistor
X4/X4/U9	AD7984BRMZ	unknown	unknown MSOP10		ADC
X4/X4/R7	RESISTOR	DNP	1% 1/10W	0603	Resistor
X4/X4/C18	CAPACITOR	DNP	25WVDC X7R	0603	Ceramic capacitor
r					
X4/X4/C19	CAPACITOR	2pF	25WVDC X7R	0603	Ceramic capacitor
r					
X4/X4/R10	RESISTOR	3.00k	1% 0603		Resistor
X4/X4/R12	RESISTOR	3.00k	1% 0603		Resistor
X4/X4/U7	MAX4594DCKR	unknown	unknown SC70		SPST analog switch
X4/X4/C4	CAPACITOR	100pF	5% NP0 Vitreous	0505	Ceramic capacitor
r					
X4/X4/R2	RESISTOR	2.00k	1% 0603		Resistor
X4/X4/R9	RESISTOR	3.00k	1% 0603		Resistor

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X4/X4/R8	RESISTOR	0	1%	0603	Resistor	
X4/X4/C1	CAPACITOR	220pF	50WVDC	0805	Ceramic capacitor	
X4/X3/R27	RESISTOR	44.2k	1% 1/10W	0603	Resistor	
X4/X3/C3	CAPACITOR	4.7uF	10WVDC	X7R	1812	Ceramic capacitor
X4/X3/C24	CAPACITOR	7.5nF	16WVDC	X7R	0603	Ceramic capacitor
X4/X3/R28	RESISTOR	3.01k	1% 1/10W	0603	Resistor	
X4/X3/R6	RESISTOR	1	1% 1/10W	0603	Resistor	
X4/X3/C29	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
X4/X3/C30	POLARIZED_CAPACITOR	47uF	15WVDC		2711	Tantalum capacitor
X4/X3/R39	RESISTOR	15.0k	1% 1/10W	0603	Resistor	
X4/X3/R40	RESISTOR	3.01k	1% 1/10W	0603	Resistor	
X4/X3/C28	CAPACITOR	4.7uF	10WVDC	X7R	1812	Ceramic capacitor
X4/X3/C25	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
X4/X3/R33	RESISTOR	330	1% 1/10W	0603	Resistor	
X4/X3/R20	RESISTOR	1	1/4W	1206	Resistor	
X4/X3/C23	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
X4/X3/R26	RESISTOR	1.05k	1% 1/10W	0603	Resistor	
X4/X3/C10	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
X4/X3/U10	DUAL_OPAMP	LM6142AIM	N/A		SO8	generic dual operational amplifier, SO8
X4/X3/C14	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
X4/X3/R18	RESISTOR	5.11	1% 1/10W	0603	Resistor	
X4/X3/C13	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
X4/X3/R17	RESISTOR	5.11	1% 1/10W	0603	Resistor	
X4/X3/C11	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
X4/X3/R16	RESISTOR	5.11	1% 1/10W	0603	Resistor	
X4/X3/C5	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
X4/X3/R5	RESISTOR	5.11	1% 1/10W	0603	Resistor	
X4/X3/C9	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
X4/X3/R21	RESISTOR	330	1% 1/10W	0603	Resistor	
X4/X3/C8	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
X4/X3/R22	RESISTOR	330	1% 1/10W	0603	Resistor	
X4/X3/C7	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
X4/X3/R23	RESISTOR	330	1% 1/10W	0603	Resistor	
X4/X3/R42	RESISTOR	4.32k	1% 1/10W	0603	Resistor	
X4/X3/R1	RESISTOR	4.32k	1% 1/10W	0603	Resistor	
X4/X3/Q2	MMBFJ309	unknown	unknown	SOT23		n-channel jfet
X4/X3/C22	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
X4/X3/R13	RESISTOR	46.4	1% 1/10W	0603	Resistor	
X4/X3/R41	RESISTOR	301k	1%	0603	Resistor	
X4/X3/U6	ADA4805-1AKSZ	unknown	unknown	SC70-6		Fast opamp
X4/X3/U8	ADA4805-1AKSZ	unknown	unknown	SC70-6		Fast opamp
X4/X3/U5	ADA4805-1AKSZ	unknown	unknown	SC70-6		Fast opamp

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X4/X3/U4	ADA4805-1AKSZ	unknown	unknown	SC70-6	Fast opamp	
X4/X3/R24	RESISTOR	20	1%	1/10W	0603	Resistor
X4/X3/C16	CAPACITOR	1uF	10WVDC	X7R	0805	Ceramic capacitor
X4/X3/C4a	CAPACITOR	30pF	5%	NP0 Vitreous	0505	Ceramic capacitor
X4/X3/C2	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
X4/X3/R11	RESISTOR	2.00k	1%	0603	Resistor	
X4/X3/U12	MAX4594DCKR	unknown	unknown	SC70	SPST analog switch	
X4/X3/C17	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
X4/X3/R38	RESISTOR	3.00k	1%	0603	Resistor	
X4/X3/U11	MAX4594DCKR	unknown	unknown	SC70	SPST analog switch	
X4/X3/C6	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
X4/X3/U3	MAX4594DCKR	unknown	unknown	SC70	SPST analog switch	
X4/X3/R25	RESISTOR	1.00Meg	1%	0603	Resistor	
X4/X3/R19	RESISTOR	62	5%	0.15W	0805	Resistor
X4/X3/R15	RESISTOR	3.00k	1%	0603	Resistor	
X4/X3/C12	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
X4/X3/R4	RESISTOR	3.00k	1%	0603	Resistor	
X4/X3/C20	CAPACITOR	1nF	50WVDC	C0G	0603	Ceramic capacitor
X4/X3/C21	CAPACITOR	1nF	50WVDC	C0G	0603	Ceramic capacitor
X4/X3/R14	RESISTOR	46.4	1%	1/10W	0603	Resistor
X4/X3/U9	AD7984BRMZ	unknown	unknown	MSOP10	ADC	
X4/X3/R7	RESISTOR	DNP	1%	1/10W	0603	Resistor
X4/X3/C18	CAPACITOR	DNP	25WVDC	X7R	0603	Ceramic capacitor
X4/X3/C19	CAPACITOR	2pF	25WVDC	X7R	0603	Ceramic capacitor
X4/X3/R10	RESISTOR	3.00k	1%	0603	Resistor	
X4/X3/R12	RESISTOR	3.00k	1%	0603	Resistor	
X4/X3/U7	MAX4594DCKR	unknown	unknown	SC70	SPST analog switch	
X4/X3/C4	CAPACITOR	100pF	5%	NP0 Vitreous	0505	Ceramic capacitor
X4/X3/R2	RESISTOR	2.00k	1%	0603	Resistor	
X4/X3/R9	RESISTOR	3.00k	1%	0603	Resistor	
X4/X3/R8	RESISTOR	0	1%	0603	Resistor	
X4/X3/C1	CAPACITOR	220pF	50WVDC	0805	Ceramic capacitor	
X4/X2/R27	RESISTOR	44.2k	1%	1/10W	0603	Resistor
X4/X2/C3	CAPACITOR	4.7uF	10WVDC	X7R	1812	Ceramic capacitor
X4/X2/C24	CAPACITOR	7.5nF	16WVDC	X7R	0603	Ceramic capacitor
X4/X2/R28	RESISTOR	3.01k	1%	1/10W	0603	Resistor
X4/X2/R6	RESISTOR	1	1%	1/10W	0603	Resistor
X4/X2/C29	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
X4/X2/C30	POLARIZED_CAPACITOR	47uF	15WVDC	2711	Tantalum capacitor	
X4/X2/R39	RESISTOR	15.0k	1%	1/10W	0603	Resistor
X4/X2/R40	RESISTOR	3.01k	1%	1/10W	0603	Resistor
X4/X2/C28	CAPACITOR	4.7uF	10WVDC	X7R	1812	Ceramic capacitor
X4/X2/C25	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor

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r					
X4/X2/R33	RESISTOR	330	1% 1/10W	0603	Resistor
X4/X2/R20	RESISTOR	1	1/4W 1206	0603	Resistor
X4/X2/C23	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X4/X2/R26	RESISTOR	1.05k	1% 1/10W	0603	Resistor
X4/X2/C10	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X4/X2/U10	DUAL_OPAMP	LM6142AIM	N/A	SO8	generic dual op
rational amplifier, SO8					
X4/X2/C14	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X4/X2/R18	RESISTOR	5.11	1% 1/10W	0603	Resistor
X4/X2/C13	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X4/X2/R17	RESISTOR	5.11	1% 1/10W	0603	Resistor
X4/X2/C11	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X4/X2/R16	RESISTOR	5.11	1% 1/10W	0603	Resistor
X4/X2/C5	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X4/X2/R5	RESISTOR	5.11	1% 1/10W	0603	Resistor
X4/X2/C9	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X4/X2/R21	RESISTOR	330	1% 1/10W	0603	Resistor
X4/X2/C8	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X4/X2/R22	RESISTOR	330	1% 1/10W	0603	Resistor
X4/X2/C7	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X4/X2/R23	RESISTOR	330	1% 1/10W	0603	Resistor
X4/X2/R42	RESISTOR	4.32k	1% 1/10W	0603	Resistor
X4/X2/R1	RESISTOR	4.32k	1% 1/10W	0603	Resistor
X4/X2/Q2	MMBFJ309	unknown	unknown SOT23	0603	n-channel jfet
X4/X2/C22	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X4/X2/R13	RESISTOR	46.4	1% 1/10W	0603	Resistor
X4/X2/R41	RESISTOR	301k	1% 0603	0603	Resistor
X4/X2/U6	ADA4805-1AKSZ	unknown	unknown SC70-6	0603	Fast opamp
X4/X2/U8	ADA4805-1AKSZ	unknown	unknown SC70-6	0603	Fast opamp
X4/X2/U5	ADA4805-1AKSZ	unknown	unknown SC70-6	0603	Fast opamp
X4/X2/U4	ADA4805-1AKSZ	unknown	unknown SC70-6	0603	Fast opamp
X4/X2/R24	RESISTOR	20	1% 1/10W	0603	Resistor
X4/X2/C16	CAPACITOR	1uF	10WVDC X7R	0805	Ceramic capacitor
r					
X4/X2/C4a	CAPACITOR	30pF	5% NP0 Vitreous	0505	Ceramic capacitor
r					
X4/X2/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X4/X2/R11	RESISTOR	2.00k	1% 0603	0603	Resistor
X4/X2/U12	MAX4594DCKR	unknown	unknown SC70	0603	SPST analog switch
X4/X2/C17	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X4/X2/R38	RESISTOR	3.00k	1% 0603	0603	Resistor
X4/X2/U11	MAX4594DCKR	unknown	unknown SC70	0603	SPST analog switch
X4/X2/C6	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X4/X2/U3	MAX4594DCKR	unknown	unknown SC70	0603	SPST analog switch
X4/X2/R25	RESISTOR	1.00Meg	1% 0603	0603	Resistor

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X4/X2/R19	RESISTOR	62	5% 0.15W	0805	Resistor	
X4/X2/R15	RESISTOR	3.00k	1% 0603	0603	Resistor	
X4/X2/C12	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor	
X4/X2/R4	RESISTOR	3.00k	1% 0603	0603	Resistor	
X4/X2/C20	CAPACITOR	1nF	50WVDC C0G	0603	Ceramic capacitor	
X4/X2/C21	CAPACITOR	1nF	50WVDC C0G	0603	Ceramic capacitor	
X4/X2/R14	RESISTOR	46.4	1% 1/10W	0603	Resistor	
X4/X2/U9	AD7984BRMZ	unknown	unknown MSOP10	ADC		
X4/X2/R7	RESISTOR	DNP	1% 1/10W	0603	Resistor	
X4/X2/C18	CAPACITOR	DNP	25WVDC X7R	0603	Ceramic capacitor	
X4/X2/C19	CAPACITOR	2pF	25WVDC X7R	0603	Ceramic capacitor	
X4/X2/R10	RESISTOR	3.00k	1% 0603	0603	Resistor	
X4/X2/R12	RESISTOR	3.00k	1% 0603	0603	Resistor	
X4/X2/U7	MAX4594DCKR	unknown	unknown SC70	SPST analog switch		
X4/X2/C4	CAPACITOR	100pF	5% NP0 Vitreous	0505	Ceramic capacitor	
X4/X2/R2	RESISTOR	2.00k	1% 0603	0603	Resistor	
X4/X2/R9	RESISTOR	3.00k	1% 0603	0603	Resistor	
X4/X2/R8	RESISTOR	0	1% 0603	0603	Resistor	
X4/X2/C1	CAPACITOR	220pF	50WVDC 0805	0805	Ceramic capacitor	
X4/X1/R27	RESISTOR	44.2k	1% 1/10W	0603	Resistor	
X4/X1/C3	CAPACITOR	4.7uF	10WVDC X7R	1812	Ceramic capacitor	
X4/X1/C24	CAPACITOR	7.5nF	16WVDC X7R	0603	Ceramic capacitor	
X4/X1/R28	RESISTOR	3.01k	1% 1/10W	0603	Resistor	
X4/X1/R6	RESISTOR	1	1% 1/10W	0603	Resistor	
X4/X1/C29	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor	
X4/X1/C30	POLARIZED_CAPACITOR	47uF	15WVDC	2711	Tantalum capacitor	
X4/X1/R39	RESISTOR	15.0k	1% 1/10W	0603	Resistor	
X4/X1/R40	RESISTOR	3.01k	1% 1/10W	0603	Resistor	
X4/X1/C28	CAPACITOR	4.7uF	10WVDC X7R	1812	Ceramic capacitor	
X4/X1/C25	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor	
X4/X1/R33	RESISTOR	330	1% 1/10W	0603	Resistor	
X4/X1/R20	RESISTOR	1	1/4W 1206	1206	Resistor	
X4/X1/C23	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor	
X4/X1/R26	RESISTOR	1.05k	1% 1/10W	0603	Resistor	
X4/X1/C10	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor	
X4/X1/U10	DUAL_OPAMP	LM6142AIM	N/A	SO8	generic dual operational amplifier, SO8	
X4/X1/C14	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor	
X4/X1/R18	RESISTOR	5.11	1% 1/10W	0603	Resistor	
X4/X1/C13	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor	
X4/X1/R17	RESISTOR	5.11	1% 1/10W	0603	Resistor	
X4/X1/C11	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor	

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X4/X1/R16	RESISTOR	5.11	1% 1/10W	0603	Resistor
X4/X1/C5	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X4/X1/R5	RESISTOR	5.11	1% 1/10W	0603	Resistor
X4/X1/C9	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X4/X1/R21	RESISTOR	330	1% 1/10W	0603	Resistor
X4/X1/C8	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X4/X1/R22	RESISTOR	330	1% 1/10W	0603	Resistor
X4/X1/C7	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X4/X1/R23	RESISTOR	330	1% 1/10W	0603	Resistor
X4/X1/R42	RESISTOR	4.32k	1% 1/10W	0603	Resistor
X4/X1/R1	RESISTOR	4.32k	1% 1/10W	0603	Resistor
X4/X1/Q2	MMBFJ309	unknown	unknown SOT23	n-channel	jfet
X4/X1/C22	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X4/X1/R13	RESISTOR	46.4	1% 1/10W	0603	Resistor
X4/X1/R41	RESISTOR	301k	1% 0603	0603	Resistor
X4/X1/U6	ADA4805-1AKSZ	unknown	unknown SC70-6	Fast	opamp
X4/X1/U8	ADA4805-1AKSZ	unknown	unknown SC70-6	Fast	opamp
X4/X1/U5	ADA4805-1AKSZ	unknown	unknown SC70-6	Fast	opamp
X4/X1/U4	ADA4805-1AKSZ	unknown	unknown SC70-6	Fast	opamp
X4/X1/R24	RESISTOR	20	1% 1/10W	0603	Resistor
X4/X1/C16	CAPACITOR	1uF	10WVDC X7R	0805	Ceramic capacitor
X4/X1/C4a	CAPACITOR	30pF	5% NP0 Vitreous	0505	Ceramic capacitor
X4/X1/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X4/X1/R11	RESISTOR	2.00k	1% 0603	0603	Resistor
X4/X1/U12	MAX4594DCKR	unknown	unknown SC70	SPST	analog switch
X4/X1/C17	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X4/X1/R38	RESISTOR	3.00k	1% 0603	0603	Resistor
X4/X1/U11	MAX4594DCKR	unknown	unknown SC70	SPST	analog switch
X4/X1/C6	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X4/X1/U3	MAX4594DCKR	unknown	unknown SC70	SPST	analog switch
X4/X1/R25	RESISTOR	1.00Meg	1% 0603	0603	Resistor
X4/X1/R19	RESISTOR	62	5% 0.15W	0805	Resistor
X4/X1/R15	RESISTOR	3.00k	1% 0603	0603	Resistor
X4/X1/C12	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X4/X1/R4	RESISTOR	3.00k	1% 0603	0603	Resistor
X4/X1/C20	CAPACITOR	1nF	50WVDC C0G	0603	Ceramic capacitor
X4/X1/C21	CAPACITOR	1nF	50WVDC C0G	0603	Ceramic capacitor
X4/X1/R14	RESISTOR	46.4	1% 1/10W	0603	Resistor
X4/X1/U9	AD7984BRMZ	unknown	unknown MSOP10	ADC	
X4/X1/R7	RESISTOR	DNP	1% 1/10W	0603	Resistor
X4/X1/C18	CAPACITOR	DNP	25WVDC X7R	0603	Ceramic capacitor
X4/X1/C19	CAPACITOR	2pF	25WVDC X7R	0603	Ceramic capacitor
X4/X1/R10	RESISTOR	3.00k	1% 0603	0603	Resistor
X4/X1/R12	RESISTOR	3.00k	1% 0603	0603	Resistor

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X4/X1/U7	MAX4594DCKR	unknown	unknown	SC70	SPST analog switch	
X4/X1/C4	CAPACITOR	100pF	5%	NP0 Vitreous	0505	Ceramic capacitor
X4/X1/R2	RESISTOR	2.00k	1%	0603	Resistor	
X4/X1/R9	RESISTOR	3.00k	1%	0603	Resistor	
X4/X1/R8	RESISTOR	0	1%	0603	Resistor	
X4/X1/C1	CAPACITOR	220pF	50WVDC	0805	Ceramic capacitor	
J3	Flexprint	unknown	unknown	NK-2M2-051	Airborne 51 pin connector	
X3/C39	CAPACITOR	1uF	10WVDC	X7R 0805	Ceramic capacitor	
X3/R51	RESISTOR	330	5% 0.15W	0805	Resistor	
X3/R53	RESISTOR	3.74k	1% 1/10W	0603	Resistor	
X3/R52	RESISTOR	3.74k	1% 1/10W	0603	Resistor	
X3/C38	CAPACITOR	0.1uF	16WVDC	X7R 0603	Ceramic capacitor	
X3/C37	CAPACITOR	22nF	50WVDC	X7R 0603	Ceramic capacitor	
X3/U10	MAX308CSE+	unknown	unknown	SO16	8 input analog mux	
X3/C36	CAPACITOR	22nF	50WVDC	X7R 0603	Ceramic capacitor	
X3/U9	AD5328	unknown	unknown	TSSOP16	Octal DAC	
X3/C35	CAPACITOR	1uF	10WVDC	X7R 0805	Ceramic capacitor	
X3/R48	RESISTOR	330	5% 0.15W	0805	Resistor	
X3/R50	RESISTOR	3.74k	1% 1/10W	0603	Resistor	
X3/R49	RESISTOR	3.74k	1% 1/10W	0603	Resistor	
X3/C34	CAPACITOR	0.1uF	16WVDC	X7R 0603	Ceramic capacitor	
X3/C33	CAPACITOR	22nF	50WVDC	X7R 0603	Ceramic capacitor	
X3/U8	MAX308CSE+	unknown	unknown	SO16	8 input analog mux	
X3/C32	CAPACITOR	22nF	50WVDC	X7R 0603	Ceramic capacitor	
X3/U7	AD5328	unknown	unknown	TSSOP16	Octal DAC	
X3/C31	CAPACITOR	0.1uF	25WVDC	X7R 0603	Ceramic capacitor	
X3/L4	EXC-3BB102H	unknown	unknown	0603	EMI chip	
X3/C30	CAPACITOR	22nF	50WVDC	X7R 0603	Ceramic capacitor	
X3/L3	EXC-3BB102H	unknown	unknown	0603	EMI chip	
X3/C29	CAPACITOR	22nF	50WVDC	X7R 0603	Ceramic capacitor	
X3/L2	EXC-3BB102H	unknown	unknown	0603	EMI chip	
X3/L1	EXC-3BB102H	unknown	unknown	0603	EMI chip	
X3/C28	CAPACITOR	22nF	50WVDC	X7R 0603	Ceramic capacitor	
X3/X6/R14	RESISTOR	301k	1%	0603	Resistor	
X3/X6/R15	RESISTOR	301k	1%	0603	Resistor	
X3/X6/U1	DUAL_OPAMP	LT2078AIS8	N/A	SO8	unknown	
X3/X6/R13	RESISTOR	1.00Meg	1%	0603	Resistor	
X3/X6/R8	RESISTOR	100k	1%	0603	Resistor	
X3/X6/R9	RESISTOR	300k	1%	0603	Resistor	
X3/X6/R10	RESISTOR	100k	1%	0603	Resistor	
X3/X6/R11	RESISTOR	301k	1%	0603	Resistor	
X3/X6/C4	CAPACITOR	330pF	50WVDC	X7R 0603	Ceramic capacitor	
X3/X6/R12	RESISTOR	470	1% 1/10W	0603	Resistor	
X3/X6/C5	CAPACITOR	47nF	50WVDC	X7R 0805	Ceramic capacitor	
X3/X6/C3	CAPACITOR	22nF	50WVDC	X7R 0603	Ceramic capacitor	
X3/X6/R6	RESISTOR	49.9	1% 1/10W	0603	Resistor	
X3/X6/R7	RESISTOR	1.00Meg	1%	0603	Resistor	
X3/X6/R1	RESISTOR	100k	1%	0603	Resistor	
X3/X6/R2	RESISTOR	300k	1%	0603	Resistor	
X3/X6/R3	RESISTOR	100k	1%	0603	Resistor	
X3/X6/R4	RESISTOR	301k	1%	0603	Resistor	
X3/X6/C1	CAPACITOR	330pF	50WVDC	X7R 0603	Ceramic capacitor	
X3/X6/R5	RESISTOR	470	1% 1/10W	0603	Resistor	

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X3/X6/C2	CAPACITOR	47nF	50WVDC	X7R	0805	Ceramic capacitor
X3/X5/R14	RESISTOR	301k	1%	0603	Resistor	
X3/X5/R15	RESISTOR	301k	1%	0603	Resistor	
X3/X5/U1	DUAL_OPAMP	LT2078AIS8	N/A	SO8	unknown	
X3/X5/R13	RESISTOR	1.00Meg	1%	0603	Resistor	
X3/X5/R8	RESISTOR	100k	1%	0603	Resistor	
X3/X5/R9	RESISTOR	300k	1%	0603	Resistor	
X3/X5/R10	RESISTOR	100k	1%	0603	Resistor	
X3/X5/R11	RESISTOR	301k	1%	0603	Resistor	
X3/X5/C4	CAPACITOR	330pF	50WVDC	X7R	0603	Ceramic capacitor
X3/X5/R12	RESISTOR	470	1% 1/10W	0603	Resistor	
X3/X5/C5	CAPACITOR	47nF	50WVDC	X7R	0805	Ceramic capacitor
X3/X5/C3	CAPACITOR	22nF	50WVDC	X7R	0603	Ceramic capacitor
X3/X5/R6	RESISTOR	49.9	1% 1/10W	0603	Resistor	
X3/X5/R7	RESISTOR	1.00Meg	1%	0603	Resistor	
X3/X5/R1	RESISTOR	100k	1%	0603	Resistor	
X3/X5/R2	RESISTOR	300k	1%	0603	Resistor	
X3/X5/R3	RESISTOR	100k	1%	0603	Resistor	
X3/X5/R4	RESISTOR	301k	1%	0603	Resistor	
X3/X5/C1	CAPACITOR	330pF	50WVDC	X7R	0603	Ceramic capacitor
X3/X5/R5	RESISTOR	470	1% 1/10W	0603	Resistor	
X3/X5/C2	CAPACITOR	47nF	50WVDC	X7R	0805	Ceramic capacitor
X3/R62	RESISTOR	49.9	1% 1/10W	0603	Resistor	
X3/R57	RESISTOR	301k	1%	0603	Resistor	
X3/R54	RESISTOR	0	1%	0603	Resistor	
X3/R47	RESISTOR	3.01Meg	1%	0603	Resistor	
X3/R46	RESISTOR	37.4k	1%	0603	Resistor	
X3/C27	CAPACITOR	22nF	100WVDC	X7R	0805	Ceramic capacitor
X3/R45	RESISTOR	40.2k	1%	0603	Resistor	
X3/C26	CAPACITOR	33nF	25WVDC	X7R	0603	Ceramic capacitor
X3/R44	RESISTOR	604k	1%	0603	Resistor	
X3/R43	RESISTOR	10k	1%	0603	Resistor	
X3/C25	CAPACITOR	22nF	100WVDC	X7R	0805	Ceramic capacitor
X3/R42	RESISTOR	10k	1%	0603	Resistor	
X3/Q2	PNP_TRANSISTOR	PMBTA92	unknown	UB	unknown	
X3/R41	RESISTOR	200k	1%	0603	Resistor	
X3/R40	RESISTOR	10k	1%	0603	Resistor	
X3/Q1	PNP_TRANSISTOR	PMBTA92	unknown	UB	unknown	
X3/C24	CAPACITOR	0.1uF	25WVDC	X7R	0603	Ceramic capacitor
X3/R39	RESISTOR	133k	1%	0603	Resistor	
X3/U4	DUAL_OPAMP	LM6142AIM	N/A	SO8	generic dual operational amplifier, SO8	
X3/R38	RESISTOR	604k	1%	0603	Resistor	
X3/R37	RESISTOR	392k	1%	0603	Resistor	
X3/R36	RESISTOR	200k	1%	0603	Resistor	
X3/C23	CAPACITOR	3.3nF	50WVDC	X7R	0603	Ceramic capacitor
X3/R35	RESISTOR	470	1% 1/10W	0603	Resistor	
X3/C22	CAPACITOR	0.22uF	25WVDC	X7R	1206	Ceramic capacitor
X3/U3	DUAL_OPAMP	LT2078AIS8	N/A	SO8	unknown	
X3/C21	CAPACITOR	0.22uF	25WVDC	X7R	1206	Ceramic capacitor
X3/C20	CAPACITOR	0.1uF	25WVDC	X7R	0603	Ceramic capacitor
X3/R34	RESISTOR	44.2k	1%	0603	Resistor	
X3/R33	RESISTOR	604k	1%	0603	Resistor	

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X3/R32	RESISTOR	56.2k	1%	0603	Resistor	
X3/R31	RESISTOR	200k	1%	0603	Resistor	
X3/C19	CAPACITOR	3.3nF	50WVDC	X7R	0603	Ceramic capacitor
X3/R30	RESISTOR	470	1%	1/10W	0603	Resistor
X3/R29	RESISTOR	44.2k	1%	0603	Resistor	
X3/R28	RESISTOR	604k	1%	0603	Resistor	
X3/R27	RESISTOR	56.2k	1%	0603	Resistor	
X3/R26	RESISTOR	200k	1%	0603	Resistor	
X3/C18	CAPACITOR	3.3nF	50WVDC	X7R	0603	Ceramic capacitor
X3/R25	RESISTOR	470	1%	1/10W	0603	Resistor
X3/C17	CAPACITOR	0.22uF	25WVDC	X7R	1206	Ceramic capacitor
X3/U2	DUAL_OPAMP	LT2078AIS8		N/A	SO8	unknown
X3/C15	CAPACITOR	0.1uF	25WVDC	X7R	0603	Ceramic capacitor
X3/C16	CAPACITOR	0.047uF	50WVDC	X7R	0603	Ceramic capacitor
X3/R24	RESISTOR	54.9k	1%	0603	Resistor	
X3/R23	RESISTOR	82.5k	1%	0603	Resistor	
X3/R22	RESISTOR	604k	1%	0603	Resistor	
X3/R21	RESISTOR	953k	1%	0603	Resistor	
X3/R20	RESISTOR	200k	1%	0603	Resistor	
X3/C14	CAPACITOR	3.3nF	50WVDC	X7R	0603	Ceramic capacitor
X3/R19	RESISTOR	470	1%	1/10W	0603	Resistor
X3/C13	CAPACITOR	0.22uF	25WVDC	X7R	1206	Ceramic capacitor
X3/R18	RESISTOR	54.9k	1%	0603	Resistor	
X3/R17	RESISTOR	82.5k	1%	0603	Resistor	
X3/R16	RESISTOR	604k	1%	0603	Resistor	
X3/R15	RESISTOR	953k	1%	0603	Resistor	
X3/R14	RESISTOR	200k	1%	0603	Resistor	
X3/C12	CAPACITOR	3.3nF	50WVDC	X7R	0603	Ceramic capacitor
X3/R13	RESISTOR	470	1%	1/10W	0603	Resistor
X3/C11	CAPACITOR	0.22uF	25WVDC	X7R	1206	Ceramic capacitor
X3/R60	RESISTOR	49.9	1%	1/10W	0603	Resistor
X3/R61	RESISTOR	49.9	1%	1/10W	0603	Resistor
X3/C40	CAPACITOR	0.1uF	25WVDC	X7R	0603	Ceramic capacitor
X3/U11	DUAL_OPAMP	LM6142AIM		N/A	SO8	generic dual operational
amplifier, SO8						
X3/U1	DUAL_OPAMP	LT2078AIS8		N/A	SO8	unknown
X3/R12	RESISTOR	24.9k	1%	1/10W	0603	Resistor
X3/C10	CAPACITOR	0.1uF	25WVDC	X7R	0603	Ceramic capacitor
X3/C9	CAPACITOR	0.1uF	25WVDC	X7R	0603	Ceramic capacitor
X3/C8	CAPACITOR	0.1uF	25WVDC	X7R	0603	Ceramic capacitor
X3/R11	RESISTOR	54.9k	1%	0603	Resistor	
X3/R10	RESISTOR	82.5k	1%	0603	Resistor	
X3/R9	RESISTOR	604k	1%	0603	Resistor	
X3/R8	RESISTOR	953k	1%	0603	Resistor	
X3/R7	RESISTOR	200k	1%	0603	Resistor	
X3/C7	CAPACITOR	3.3nF	50WVDC	X7R	0603	Ceramic capacitor
X3/R6	RESISTOR	470	1%	1/10W	0603	Resistor
X3/C6	CAPACITOR	0.22uF	25WVDC	X7R	1206	Ceramic capacitor
X3/U5	DUAL_OPAMP	LM6142AIM		N/A	SO8	generic dual operational
amplifier, SO8						
X3/R5	RESISTOR	4.75k	1%	1/10W	0603	Resistor
X3/C3	CAPACITOR	620pF	10WVDC	X7R	0805	Ceramic capacitor
X3/R4	RESISTOR	14.7k	1%	1/10W	0603	Resistor
X3/R3	RESISTOR	1	1%	1/10W	0603	Resistor
X3/C2	CAPACITOR	1uF	10WVDC	X7R	0805	Ceramic capacitor
X3/C5	CAPACITOR	1uF	10WVDC	X7R	0805	Ceramic capacitor
X3/R2	RESISTOR	4.99	1%	1/10W	0603	Resistor
X3/C4	CAPACITOR	1uF	10WVDC	X7R	0805	Ceramic capacitor
X3/R1	RESISTOR	49.9	1%	1/10W	0603	Resistor

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X3/U6	REFERENCE	REF43GS	N/A	SO8	2.5V	Reference	
X3/R59	RESISTOR	49.9	1% 1/10W		0603	Resistor	
X3/X4/R27	RESISTOR	44.2k	1% 1/10W		0603	Resistor	
X3/X4/C3	CAPACITOR	4.7uF	10WVDC	X7R	1812	Ceramic capacitor	
X3/X4/C24	CAPACITOR	7.5nF	16WVDC	X7R	0603	Ceramic capacitor	
X3/X4/R28	RESISTOR	3.01k	1% 1/10W		0603	Resistor	
X3/X4/R6	RESISTOR	1	1% 1/10W		0603	Resistor	
X3/X4/C29	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor	
X3/X4/C30	POLARIZED_CAPACITOR		47uF	15WVDC	2711	Tantalum capacitor	
X3/X4/R39	RESISTOR	15.0k	1% 1/10W		0603	Resistor	
X3/X4/R40	RESISTOR	3.01k	1% 1/10W		0603	Resistor	
X3/X4/C28	CAPACITOR	4.7uF	10WVDC	X7R	1812	Ceramic capacitor	
X3/X4/C25	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor	
X3/X4/R33	RESISTOR	330	1% 1/10W		0603	Resistor	
X3/X4/R20	RESISTOR	1	1/4W	1206		Resistor	
X3/X4/C23	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor	
X3/X4/R26	RESISTOR	1.05k	1% 1/10W		0603	Resistor	
X3/X4/C10	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor	
X3/X4/U10	DUAL_OPAMP	LM6142AIM		N/A	SO8	generic dual operational amplifier, SO8	
X3/X4/C14	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor	
X3/X4/R18	RESISTOR	5.11	1% 1/10W		0603	Resistor	
X3/X4/C13	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor	
X3/X4/R17	RESISTOR	5.11	1% 1/10W		0603	Resistor	
X3/X4/C11	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor	
X3/X4/R16	RESISTOR	5.11	1% 1/10W		0603	Resistor	
X3/X4/C5	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor	
X3/X4/R5	RESISTOR	5.11	1% 1/10W		0603	Resistor	
X3/X4/C9	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor	
X3/X4/R21	RESISTOR	330	1% 1/10W		0603	Resistor	
X3/X4/C8	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor	
X3/X4/R22	RESISTOR	330	1% 1/10W		0603	Resistor	
X3/X4/C7	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor	
X3/X4/R23	RESISTOR	330	1% 1/10W		0603	Resistor	
X3/X4/R42	RESISTOR	4.32k	1% 1/10W		0603	Resistor	
X3/X4/R1	RESISTOR	4.32k	1% 1/10W		0603	Resistor	
X3/X4/Q2	MMBFJ309	unknown	unknown	SOT23		n-channel jfet	
X3/X4/C22	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor	
X3/X4/R13	RESISTOR	46.4	1% 1/10W		0603	Resistor	
X3/X4/R41	RESISTOR	301k	1%	0603		Resistor	
X3/X4/U6	ADA4805-1AKSZ	unknown	unknown	SC70-6		Fast opamp	
X3/X4/U8	ADA4805-1AKSZ	unknown	unknown	SC70-6		Fast opamp	
X3/X4/U5	ADA4805-1AKSZ	unknown	unknown	SC70-6		Fast opamp	

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X3/X4/U4	ADA4805-1AKSZ	unknown	unknown	SC70-6	Fast opamp	
X3/X4/R24	RESISTOR	20	1%	1/10W	0603	Resistor
X3/X4/C16	CAPACITOR	1uF	10WVDC	X7R	0805	Ceramic capacitor
X3/X4/C4a	CAPACITOR	30pF	5%	NP0 Vitreous	0505	Ceramic capacitor
X3/X4/C2	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
X3/X4/R11	RESISTOR	2.00k	1%	0603	Resistor	
X3/X4/U12	MAX4594DCKR	unknown	unknown	SC70	SPST analog switch	
X3/X4/C17	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
X3/X4/R38	RESISTOR	3.00k	1%	0603	Resistor	
X3/X4/U11	MAX4594DCKR	unknown	unknown	SC70	SPST analog switch	
X3/X4/C6	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
X3/X4/U3	MAX4594DCKR	unknown	unknown	SC70	SPST analog switch	
X3/X4/R25	RESISTOR	1.00Meg	1%	0603	Resistor	
X3/X4/R19	RESISTOR	62	5%	0.15W	0805	Resistor
X3/X4/R15	RESISTOR	3.00k	1%	0603	Resistor	
X3/X4/C12	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
X3/X4/R4	RESISTOR	3.00k	1%	0603	Resistor	
X3/X4/C20	CAPACITOR	1nF	50WVDC	C0G	0603	Ceramic capacitor
X3/X4/C21	CAPACITOR	1nF	50WVDC	C0G	0603	Ceramic capacitor
X3/X4/R14	RESISTOR	46.4	1%	1/10W	0603	Resistor
X3/X4/U9	AD7984BRMZ	unknown	unknown	MSOP10	ADC	
X3/X4/R7	RESISTOR	DNP	1%	1/10W	0603	Resistor
X3/X4/C18	CAPACITOR	DNP	25WVDC	X7R	0603	Ceramic capacitor
X3/X4/C19	CAPACITOR	2pF	25WVDC	X7R	0603	Ceramic capacitor
X3/X4/R10	RESISTOR	3.00k	1%	0603	Resistor	
X3/X4/R12	RESISTOR	3.00k	1%	0603	Resistor	
X3/X4/U7	MAX4594DCKR	unknown	unknown	SC70	SPST analog switch	
X3/X4/C4	CAPACITOR	100pF	5%	NP0 Vitreous	0505	Ceramic capacitor
X3/X4/R2	RESISTOR	2.00k	1%	0603	Resistor	
X3/X4/R9	RESISTOR	3.00k	1%	0603	Resistor	
X3/X4/R8	RESISTOR	0	1%	0603	Resistor	
X3/X4/C1	CAPACITOR	220pF	50WVDC	0805	Ceramic capacitor	
X3/X3/R27	RESISTOR	44.2k	1%	1/10W	0603	Resistor
X3/X3/C3	CAPACITOR	4.7uF	10WVDC	X7R	1812	Ceramic capacitor
X3/X3/C24	CAPACITOR	7.5nF	16WVDC	X7R	0603	Ceramic capacitor
X3/X3/R28	RESISTOR	3.01k	1%	1/10W	0603	Resistor
X3/X3/R6	RESISTOR	1	1%	1/10W	0603	Resistor
X3/X3/C29	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
X3/X3/C30	POLARIZED_CAPACITOR	47uF	15WVDC	2711	Tantalum capacitor	
X3/X3/R39	RESISTOR	15.0k	1%	1/10W	0603	Resistor
X3/X3/R40	RESISTOR	3.01k	1%	1/10W	0603	Resistor
X3/X3/C28	CAPACITOR	4.7uF	10WVDC	X7R	1812	Ceramic capacitor
X3/X3/C25	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor

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r					
X3/X3/R33	RESISTOR	330	1% 1/10W	0603	Resistor
X3/X3/R20	RESISTOR	1	1/4W 1206	0603	Resistor
X3/X3/C23	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X3/X3/R26	RESISTOR	1.05k	1% 1/10W	0603	Resistor
X3/X3/C10	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X3/X3/U10	DUAL_OPAMP	LM6142AIM	N/A	SO8	generic dual op
rational amplifier, SO8					
X3/X3/C14	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X3/X3/R18	RESISTOR	5.11	1% 1/10W	0603	Resistor
X3/X3/C13	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X3/X3/R17	RESISTOR	5.11	1% 1/10W	0603	Resistor
X3/X3/C11	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X3/X3/R16	RESISTOR	5.11	1% 1/10W	0603	Resistor
X3/X3/C5	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X3/X3/R5	RESISTOR	5.11	1% 1/10W	0603	Resistor
X3/X3/C9	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X3/X3/R21	RESISTOR	330	1% 1/10W	0603	Resistor
X3/X3/C8	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X3/X3/R22	RESISTOR	330	1% 1/10W	0603	Resistor
X3/X3/C7	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X3/X3/R23	RESISTOR	330	1% 1/10W	0603	Resistor
X3/X3/R42	RESISTOR	4.32k	1% 1/10W	0603	Resistor
X3/X3/R1	RESISTOR	4.32k	1% 1/10W	0603	Resistor
X3/X3/Q2	MMBFJ309	unknown	unknown SOT23	0603	n-channel jfet
X3/X3/C22	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X3/X3/R13	RESISTOR	46.4	1% 1/10W	0603	Resistor
X3/X3/R41	RESISTOR	301k	1% 0603	0603	Resistor
X3/X3/U6	ADA4805-1AKSZ	unknown	unknown SC70-6	0603	Fast opamp
X3/X3/U8	ADA4805-1AKSZ	unknown	unknown SC70-6	0603	Fast opamp
X3/X3/U5	ADA4805-1AKSZ	unknown	unknown SC70-6	0603	Fast opamp
X3/X3/U4	ADA4805-1AKSZ	unknown	unknown SC70-6	0603	Fast opamp
X3/X3/R24	RESISTOR	20	1% 1/10W	0603	Resistor
X3/X3/C16	CAPACITOR	1uF	10WVDC X7R	0805	Ceramic capacitor
r					
X3/X3/C4a	CAPACITOR	30pF	5% NP0 Vitreous	0505	Ceramic capacitor
r					
X3/X3/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X3/X3/R11	RESISTOR	2.00k	1% 0603	0603	Resistor
X3/X3/U12	MAX4594DCKR	unknown	unknown SC70	0603	SPST analog switch
X3/X3/C17	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X3/X3/R38	RESISTOR	3.00k	1% 0603	0603	Resistor
X3/X3/U11	MAX4594DCKR	unknown	unknown SC70	0603	SPST analog switch
X3/X3/C6	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X3/X3/U3	MAX4594DCKR	unknown	unknown SC70	0603	SPST analog switch
X3/X3/R25	RESISTOR	1.00Meg	1% 0603	0603	Resistor

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X3/X3/R19	RESISTOR	62	5% 0.15W	0805	Resistor	
X3/X3/R15	RESISTOR	3.00k	1% 0603		Resistor	
X3/X3/C12	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor	
X3/X3/R4	RESISTOR	3.00k	1% 0603		Resistor	
X3/X3/C20	CAPACITOR	1nF	50WVDC C0G	0603	Ceramic capacitor	
X3/X3/C21	CAPACITOR	1nF	50WVDC C0G	0603	Ceramic capacitor	
X3/X3/R14	RESISTOR	46.4	1% 1/10W	0603	Resistor	
X3/X3/U9	AD7984BRMZ	unknown	unknown MSOP10	ADC		
X3/X3/R7	RESISTOR	DNP	1% 1/10W	0603	Resistor	
X3/X3/C18	CAPACITOR	DNP	25WVDC X7R	0603	Ceramic capacitor	
X3/X3/C19	CAPACITOR	2pF	25WVDC X7R	0603	Ceramic capacitor	
X3/X3/R10	RESISTOR	3.00k	1% 0603		Resistor	
X3/X3/R12	RESISTOR	3.00k	1% 0603		Resistor	
X3/X3/U7	MAX4594DCKR	unknown	unknown SC70		SPST analog switch	
X3/X3/C4	CAPACITOR	100pF	5% NP0 Vitreous	0505	Ceramic capacitor	
X3/X3/R2	RESISTOR	2.00k	1% 0603		Resistor	
X3/X3/R9	RESISTOR	3.00k	1% 0603		Resistor	
X3/X3/R8	RESISTOR	0	1% 0603		Resistor	
X3/X3/C1	CAPACITOR	220pF	50WVDC 0805		Ceramic capacitor	
X3/X2/R27	RESISTOR	44.2k	1% 1/10W	0603	Resistor	
X3/X2/C3	CAPACITOR	4.7uF	10WVDC X7R	1812	Ceramic capacitor	
X3/X2/C24	CAPACITOR	7.5nF	16WVDC X7R	0603	Ceramic capacitor	
X3/X2/R28	RESISTOR	3.01k	1% 1/10W	0603	Resistor	
X3/X2/R6	RESISTOR	1	1% 1/10W	0603	Resistor	
X3/X2/C29	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor	
X3/X2/C30	POLARIZED_CAPACITOR		47uF 15WVDC	2711	Tantalum capacitor	
X3/X2/R39	RESISTOR	15.0k	1% 1/10W	0603	Resistor	
X3/X2/R40	RESISTOR	3.01k	1% 1/10W	0603	Resistor	
X3/X2/C28	CAPACITOR	4.7uF	10WVDC X7R	1812	Ceramic capacitor	
X3/X2/C25	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor	
X3/X2/R33	RESISTOR	330	1% 1/10W	0603	Resistor	
X3/X2/R20	RESISTOR	1	1/4W 1206		Resistor	
X3/X2/C23	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor	
X3/X2/R26	RESISTOR	1.05k	1% 1/10W	0603	Resistor	
X3/X2/C10	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor	
X3/X2/U10	DUAL_OPAMP	LM6142AIM	N/A	SO8	generic dual operational amplifier, SO8	
X3/X2/C14	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor	
X3/X2/R18	RESISTOR	5.11	1% 1/10W	0603	Resistor	
X3/X2/C13	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor	
X3/X2/R17	RESISTOR	5.11	1% 1/10W	0603	Resistor	
X3/X2/C11	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor	

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X3/X2/R16	RESISTOR	5.11	1% 1/10W	0603	Resistor
X3/X2/C5	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X3/X2/R5	RESISTOR	5.11	1% 1/10W	0603	Resistor
X3/X2/C9	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X3/X2/R21	RESISTOR	330	1% 1/10W	0603	Resistor
X3/X2/C8	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X3/X2/R22	RESISTOR	330	1% 1/10W	0603	Resistor
X3/X2/C7	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X3/X2/R23	RESISTOR	330	1% 1/10W	0603	Resistor
X3/X2/R42	RESISTOR	4.32k	1% 1/10W	0603	Resistor
X3/X2/R1	RESISTOR	4.32k	1% 1/10W	0603	Resistor
X3/X2/Q2	MMBFJ309	unknown	unknown SOT23	n-channel jfet	
X3/X2/C22	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X3/X2/R13	RESISTOR	46.4	1% 1/10W	0603	Resistor
X3/X2/R41	RESISTOR	301k	1% 0603	0603	Resistor
X3/X2/U6	ADA4805-1AKSZ	unknown	unknown SC70-6	Fast opamp	
X3/X2/U8	ADA4805-1AKSZ	unknown	unknown SC70-6	Fast opamp	
X3/X2/U5	ADA4805-1AKSZ	unknown	unknown SC70-6	Fast opamp	
X3/X2/U4	ADA4805-1AKSZ	unknown	unknown SC70-6	Fast opamp	
X3/X2/R24	RESISTOR	20	1% 1/10W	0603	Resistor
X3/X2/C16	CAPACITOR	1uF	10WVDC X7R	0805	Ceramic capacitor
X3/X2/C4a	CAPACITOR	30pF	5% NP0 Vitreous	0505	Ceramic capacitor
X3/X2/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X3/X2/R11	RESISTOR	2.00k	1% 0603	0603	Resistor
X3/X2/U12	MAX4594DCKR	unknown	unknown SC70	SPST analog switch	
X3/X2/C17	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X3/X2/R38	RESISTOR	3.00k	1% 0603	0603	Resistor
X3/X2/U11	MAX4594DCKR	unknown	unknown SC70	SPST analog switch	
X3/X2/C6	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X3/X2/U3	MAX4594DCKR	unknown	unknown SC70	SPST analog switch	
X3/X2/R25	RESISTOR	1.00Meg	1% 0603	0603	Resistor
X3/X2/R19	RESISTOR	62	5% 0.15W	0805	Resistor
X3/X2/R15	RESISTOR	3.00k	1% 0603	0603	Resistor
X3/X2/C12	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X3/X2/R4	RESISTOR	3.00k	1% 0603	0603	Resistor
X3/X2/C20	CAPACITOR	1nF	50WVDC C0G	0603	Ceramic capacitor
X3/X2/C21	CAPACITOR	1nF	50WVDC C0G	0603	Ceramic capacitor
X3/X2/R14	RESISTOR	46.4	1% 1/10W	0603	Resistor
X3/X2/U9	AD7984BRMZ	unknown	unknown MSOP10	ADC	
X3/X2/R7	RESISTOR	DNP	1% 1/10W	0603	Resistor
X3/X2/C18	CAPACITOR	DNP	25WVDC X7R	0603	Ceramic capacitor
X3/X2/C19	CAPACITOR	2pF	25WVDC X7R	0603	Ceramic capacitor
X3/X2/R10	RESISTOR	3.00k	1% 0603	0603	Resistor
X3/X2/R12	RESISTOR	3.00k	1% 0603	0603	Resistor

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X3/X2/U7	MAX4594DCKR	unknown	unknown	SC70	SPST	analog switch
X3/X2/C4	CAPACITOR	100pF	5%	NP0 Vitreous	0505	Ceramic capacitor
X3/X2/R2	RESISTOR	2.00k	1%	0603		Resistor
X3/X2/R9	RESISTOR	3.00k	1%	0603		Resistor
X3/X2/R8	RESISTOR	0	1%	0603		Resistor
X3/X2/C1	CAPACITOR	220pF	50WVDC	0805		Ceramic capacitor
X3/X1/R27	RESISTOR	44.2k	1%	1/10W	0603	Resistor
X3/X1/C3	CAPACITOR	4.7uF	10WVDC	X7R	1812	Ceramic capacitor
X3/X1/C24	CAPACITOR	7.5nF	16WVDC	X7R	0603	Ceramic capacitor
X3/X1/R28	RESISTOR	3.01k	1%	1/10W	0603	Resistor
X3/X1/R6	RESISTOR	1	1%	1/10W	0603	Resistor
X3/X1/C29	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
X3/X1/C30	POLARIZED_CAPACITOR		47uF	15WVDC	2711	Tantalum capacitor
X3/X1/R39	RESISTOR	15.0k	1%	1/10W	0603	Resistor
X3/X1/R40	RESISTOR	3.01k	1%	1/10W	0603	Resistor
X3/X1/C28	CAPACITOR	4.7uF	10WVDC	X7R	1812	Ceramic capacitor
X3/X1/C25	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
X3/X1/R33	RESISTOR	330	1%	1/10W	0603	Resistor
X3/X1/R20	RESISTOR	1	1/4W	1206		Resistor
X3/X1/C23	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
X3/X1/R26	RESISTOR	1.05k	1%	1/10W	0603	Resistor
X3/X1/C10	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
X3/X1/U10	DUAL_OPAMP	LM6142AIM		N/A	SO8	generic dual operational amplifier, SO8
X3/X1/C14	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
X3/X1/R18	RESISTOR	5.11	1%	1/10W	0603	Resistor
X3/X1/C13	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
X3/X1/R17	RESISTOR	5.11	1%	1/10W	0603	Resistor
X3/X1/C11	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
X3/X1/R16	RESISTOR	5.11	1%	1/10W	0603	Resistor
X3/X1/C5	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
X3/X1/R5	RESISTOR	5.11	1%	1/10W	0603	Resistor
X3/X1/C9	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
X3/X1/R21	RESISTOR	330	1%	1/10W	0603	Resistor
X3/X1/C8	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
X3/X1/R22	RESISTOR	330	1%	1/10W	0603	Resistor
X3/X1/C7	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
X3/X1/R23	RESISTOR	330	1%	1/10W	0603	Resistor
X3/X1/R42	RESISTOR	4.32k	1%	1/10W	0603	Resistor
X3/X1/R1	RESISTOR	4.32k	1%	1/10W	0603	Resistor
X3/X1/Q2	MMBFJ309	unknown	unknown	SOT23		n-channel jfet
X3/X1/C22	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor

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X3/X1/R13	RESISTOR	46.4	1% 1/10W	0603	Resistor	
X3/X1/R41	RESISTOR	301k	1% 0603	0603	Resistor	
X3/X1/U6	ADA4805-1AKSZ	unknown	unknown SC70-6	Fast opamp		
X3/X1/U8	ADA4805-1AKSZ	unknown	unknown SC70-6	Fast opamp		
X3/X1/U5	ADA4805-1AKSZ	unknown	unknown SC70-6	Fast opamp		
X3/X1/U4	ADA4805-1AKSZ	unknown	unknown SC70-6	Fast opamp		
X3/X1/R24	RESISTOR	20	1% 1/10W	0603	Resistor	
X3/X1/C16	CAPACITOR	1uF	10WVDC X7R	0805	Ceramic capacitor	
X3/X1/C4a	CAPACITOR	30pF	5% NP0 Vitreous	0505	Ceramic capacitor	
X3/X1/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor	
X3/X1/R11	RESISTOR	2.00k	1% 0603	0603	Resistor	
X3/X1/U12	MAX4594DCKR	unknown	unknown SC70	SPST analog switch		
X3/X1/C17	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor	
X3/X1/R38	RESISTOR	3.00k	1% 0603	0603	Resistor	
X3/X1/U11	MAX4594DCKR	unknown	unknown SC70	SPST analog switch		
X3/X1/C6	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor	
X3/X1/U3	MAX4594DCKR	unknown	unknown SC70	SPST analog switch		
X3/X1/R25	RESISTOR	1.00Meg	1% 0603	0603	Resistor	
X3/X1/R19	RESISTOR	62	5% 0.15W	0805	Resistor	
X3/X1/R15	RESISTOR	3.00k	1% 0603	0603	Resistor	
X3/X1/C12	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor	
X3/X1/R4	RESISTOR	3.00k	1% 0603	0603	Resistor	
X3/X1/C20	CAPACITOR	1nF	50WVDC C0G	0603	Ceramic capacitor	
X3/X1/C21	CAPACITOR	1nF	50WVDC C0G	0603	Ceramic capacitor	
X3/X1/R14	RESISTOR	46.4	1% 1/10W	0603	Resistor	
X3/X1/U9	AD7984BRMZ	unknown	unknown MSOP10	ADC		
X3/X1/R7	RESISTOR	DNP	1% 1/10W	0603	Resistor	
X3/X1/C18	CAPACITOR	DNP	25WVDC X7R	0603	Ceramic capacitor	
X3/X1/C19	CAPACITOR	2pF	25WVDC X7R	0603	Ceramic capacitor	
X3/X1/R10	RESISTOR	3.00k	1% 0603	0603	Resistor	
X3/X1/R12	RESISTOR	3.00k	1% 0603	0603	Resistor	
X3/X1/U7	MAX4594DCKR	unknown	unknown SC70	SPST analog switch		
X3/X1/C4	CAPACITOR	100pF	5% NP0 Vitreous	0505	Ceramic capacitor	
X3/X1/R2	RESISTOR	2.00k	1% 0603	0603	Resistor	
X3/X1/R9	RESISTOR	3.00k	1% 0603	0603	Resistor	
X3/X1/R8	RESISTOR	0	1% 0603	0603	Resistor	
X3/X1/C1	CAPACITOR	220pF	50WVDC 0805	0805	Ceramic capacitor	
J2	Flexprint	unknown	unknown NK-2M2-051	Airborne 51 pin connecto		
X2/C39	CAPACITOR	1uF	10WVDC X7R	0805	Ceramic capacitor	
X2/R51	RESISTOR	330	5% 0.15W	0805	Resistor	
X2/R53	RESISTOR	3.74k	1% 1/10W	0603	Resistor	
X2/R52	RESISTOR	3.74k	1% 1/10W	0603	Resistor	
X2/C38	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor	
X2/C37	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacitor	
X2/U10	MAX308CSE+	unknown	unknown SO16	8 input analog mux		
X2/C36	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacitor	
X2/U9	AD5328	unknown	unknown TSSOP16	Octal DAC		

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X2/C35	CAPACITOR	1uF	10WVDC X7R	0805	Ceramic capacitor	
X2/R48	RESISTOR	330	5% 0.15W	0805	Resistor	
X2/R50	RESISTOR	3.74k	1% 1/10W	0603	Resistor	
X2/R49	RESISTOR	3.74k	1% 1/10W	0603	Resistor	
X2/C34	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor	
X2/C33	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacitor	
X2/U8	MAX308CSE+	unknown	unknown SO16	8 input	analog mux	
X2/C32	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacitor	
X2/U7	AD5328	unknown	unknown TSSOP16	Octal	DAC	
X2/C31	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacitor	
X2/L4	EXC-3BB102H	unknown	unknown 0603	EMI chip		
X2/C30	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacitor	
X2/L3	EXC-3BB102H	unknown	unknown 0603	EMI chip		
X2/C29	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacitor	
X2/L2	EXC-3BB102H	unknown	unknown 0603	EMI chip		
X2/L1	EXC-3BB102H	unknown	unknown 0603	EMI chip		
X2/C28	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacitor	
X2/X6/R14	RESISTOR	301k	1%	0603	Resistor	
X2/X6/R15	RESISTOR	301k	1%	0603	Resistor	
X2/X6/U1	DUAL_OPAMP	LT2078AIS8		N/A	SO8	unknown
X2/X6/R13	RESISTOR	1.00Meg	1%	0603	Resistor	
X2/X6/R8	RESISTOR	100k	1%	0603	Resistor	
X2/X6/R9	RESISTOR	300k	1%	0603	Resistor	
X2/X6/R10	RESISTOR	100k	1%	0603	Resistor	
X2/X6/R11	RESISTOR	301k	1%	0603	Resistor	
X2/X6/C4	CAPACITOR	330pF	50WVDC X7R	0603	Ceramic capacitor	
X2/X6/R12	RESISTOR	470	1% 1/10W	0603	Resistor	
X2/X6/C5	CAPACITOR	47nF	50WVDC X7R	0805	Ceramic capacitor	
X2/X6/C3	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacitor	
X2/X6/R6	RESISTOR	49.9	1% 1/10W	0603	Resistor	
X2/X6/R7	RESISTOR	1.00Meg	1%	0603	Resistor	
X2/X6/R1	RESISTOR	100k	1%	0603	Resistor	
X2/X6/R2	RESISTOR	300k	1%	0603	Resistor	
X2/X6/R3	RESISTOR	100k	1%	0603	Resistor	
X2/X6/R4	RESISTOR	301k	1%	0603	Resistor	
X2/X6/C1	CAPACITOR	330pF	50WVDC X7R	0603	Ceramic capacitor	
X2/X6/R5	RESISTOR	470	1% 1/10W	0603	Resistor	
X2/X6/C2	CAPACITOR	47nF	50WVDC X7R	0805	Ceramic capacitor	
X2/X5/R14	RESISTOR	301k	1%	0603	Resistor	
X2/X5/R15	RESISTOR	301k	1%	0603	Resistor	
X2/X5/U1	DUAL_OPAMP	LT2078AIS8		N/A	SO8	unknown
X2/X5/R13	RESISTOR	1.00Meg	1%	0603	Resistor	
X2/X5/R8	RESISTOR	100k	1%	0603	Resistor	
X2/X5/R9	RESISTOR	300k	1%	0603	Resistor	
X2/X5/R10	RESISTOR	100k	1%	0603	Resistor	
X2/X5/R11	RESISTOR	301k	1%	0603	Resistor	
X2/X5/C4	CAPACITOR	330pF	50WVDC X7R	0603	Ceramic capacitor	
X2/X5/R12	RESISTOR	470	1% 1/10W	0603	Resistor	
X2/X5/C5	CAPACITOR	47nF	50WVDC X7R	0805	Ceramic capacitor	
X2/X5/C3	CAPACITOR	22nF	50WVDC X7R	0603	Ceramic capacitor	
X2/X5/R6	RESISTOR	49.9	1% 1/10W	0603	Resistor	

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X2/X5/R7	RESISTOR	1.00Meg	1%	0603	Resistor		
X2/X5/R1	RESISTOR	100k	1%	0603	Resistor		
X2/X5/R2	RESISTOR	300k	1%	0603	Resistor		
X2/X5/R3	RESISTOR	100k	1%	0603	Resistor		
X2/X5/R4	RESISTOR	301k	1%	0603	Resistor		
X2/X5/C1	CAPACITOR	330pF	50WVDC	X7R	0603	Ceramic capacitor	
X2/X5/R5	RESISTOR	470	1% 1/10W		0603	Resistor	
X2/X5/C2	CAPACITOR	47nF	50WVDC	X7R	0805	Ceramic capacitor	
X2/R62	RESISTOR	49.9	1% 1/10W		0603	Resistor	
X2/R57	RESISTOR	301k	1%	0603	Resistor		
X2/R54	RESISTOR	0	1%	0603	Resistor		
X2/R47	RESISTOR	3.01Meg	1%	0603	Resistor		
X2/R46	RESISTOR	37.4k	1%	0603	Resistor		
X2/C27	CAPACITOR	22nF	100WVDC	X7R	0805	Ceramic capacitor	
X2/R45	RESISTOR	40.2k	1%	0603	Resistor		
X2/C26	CAPACITOR	33nF	25WVDC	X7R	0603	Ceramic capacitor	
X2/R44	RESISTOR	604k	1%	0603	Resistor		
X2/R43	RESISTOR	10k	1%	0603	Resistor		
X2/C25	CAPACITOR	22nF	100WVDC	X7R	0805	Ceramic capacitor	
X2/R42	RESISTOR	10k	1%	0603	Resistor		
X2/Q2	PNP_TRANSISTOR	PMBTA92	unknown	UB	unknown		
X2/R41	RESISTOR	200k	1%	0603	Resistor		
X2/R40	RESISTOR	10k	1%	0603	Resistor		
X2/Q1	PNP_TRANSISTOR	PMBTA92	unknown	UB	unknown		
X2/C24	CAPACITOR	0.1uF	25WVDC	X7R	0603	Ceramic capacitor	
X2/R39	RESISTOR	133k	1%	0603	Resistor		
X2/U4	DUAL_OPAMP	LM6142AIM	N/A		SO8	generic dual operational amplifier, SO8	
X2/R38	RESISTOR	604k	1%	0603	Resistor		
X2/R37	RESISTOR	392k	1%	0603	Resistor		
X2/R36	RESISTOR	200k	1%	0603	Resistor		
X2/C23	CAPACITOR	3.3nF	50WVDC	X7R	0603	Ceramic capacitor	
X2/R35	RESISTOR	470	1% 1/10W		0603	Resistor	
X2/C22	CAPACITOR	0.22uF	25WVDC	X7R	1206	Ceramic capacitor	
X2/U3	DUAL_OPAMP	LT2078AIS8	N/A		SO8	unknown	
X2/C21	CAPACITOR	0.22uF	25WVDC	X7R	1206	Ceramic capacitor	
X2/C20	CAPACITOR	0.1uF	25WVDC	X7R	0603	Ceramic capacitor	
X2/R34	RESISTOR	44.2k	1%	0603	Resistor		
X2/R33	RESISTOR	604k	1%	0603	Resistor		
X2/R32	RESISTOR	56.2k	1%	0603	Resistor		
X2/R31	RESISTOR	200k	1%	0603	Resistor		
X2/C19	CAPACITOR	3.3nF	50WVDC	X7R	0603	Ceramic capacitor	
X2/R30	RESISTOR	470	1% 1/10W		0603	Resistor	
X2/R29	RESISTOR	44.2k	1%	0603	Resistor		
X2/R28	RESISTOR	604k	1%	0603	Resistor		
X2/R27	RESISTOR	56.2k	1%	0603	Resistor		
X2/R26	RESISTOR	200k	1%	0603	Resistor		
X2/C18	CAPACITOR	3.3nF	50WVDC	X7R	0603	Ceramic capacitor	
X2/R25	RESISTOR	470	1% 1/10W		0603	Resistor	
X2/C17	CAPACITOR	0.22uF	25WVDC	X7R	1206	Ceramic capacitor	
X2/U2	DUAL_OPAMP	LT2078AIS8	N/A		SO8	unknown	
X2/C15	CAPACITOR	0.1uF	25WVDC	X7R	0603	Ceramic capacitor	
X2/C16	CAPACITOR	0.047uF	50WVDC	X7R	0603	Ceramic capacitor	
X2/R24	RESISTOR	54.9k	1%	0603	Resistor		
X2/R23	RESISTOR	82.5k	1%	0603	Resistor		
X2/R22	RESISTOR	604k	1%	0603	Resistor		
X2/R21	RESISTOR	953k	1%	0603	Resistor		

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X2/R20	RESISTOR	200k	1%	0603	Resistor	
X2/C14	CAPACITOR	3.3nF	50WVDC	X7R	0603	Ceramic capacitor
X2/R19	RESISTOR	470	1%	1/10W	0603	Resistor
X2/C13	CAPACITOR	0.22uF	25WVDC	X7R	1206	Ceramic capacitor
X2/R18	RESISTOR	54.9k	1%	0603	Resistor	
X2/R17	RESISTOR	82.5k	1%	0603	Resistor	
X2/R16	RESISTOR	604k	1%	0603	Resistor	
X2/R15	RESISTOR	953k	1%	0603	Resistor	
X2/R14	RESISTOR	200k	1%	0603	Resistor	
X2/C12	CAPACITOR	3.3nF	50WVDC	X7R	0603	Ceramic capacitor
X2/R13	RESISTOR	470	1%	1/10W	0603	Resistor
X2/C11	CAPACITOR	0.22uF	25WVDC	X7R	1206	Ceramic capacitor
X2/R60	RESISTOR	49.9	1%	1/10W	0603	Resistor
X2/R61	RESISTOR	49.9	1%	1/10W	0603	Resistor
X2/C40	CAPACITOR	0.1uF	25WVDC	X7R	0603	Ceramic capacitor
X2/U11	DUAL_OPAMP amplifier, SO8	LM6142AIM		N/A	SO8	generic dual operational
X2/U1	DUAL_OPAMP	LT2078AIS8		N/A	SO8	unknown
X2/R12	RESISTOR	24.9k	1%	1/10W	0603	Resistor
X2/C10	CAPACITOR	0.1uF	25WVDC	X7R	0603	Ceramic capacitor
X2/C9	CAPACITOR	0.1uF	25WVDC	X7R	0603	Ceramic capacitor
X2/C8	CAPACITOR	0.1uF	25WVDC	X7R	0603	Ceramic capacitor
X2/R11	RESISTOR	54.9k	1%	0603	Resistor	
X2/R10	RESISTOR	82.5k	1%	0603	Resistor	
X2/R9	RESISTOR	604k	1%	0603	Resistor	
X2/R8	RESISTOR	953k	1%	0603	Resistor	
X2/R7	RESISTOR	200k	1%	0603	Resistor	
X2/C7	CAPACITOR	3.3nF	50WVDC	X7R	0603	Ceramic capacitor
X2/R6	RESISTOR	470	1%	1/10W	0603	Resistor
X2/C6	CAPACITOR	0.22uF	25WVDC	X7R	1206	Ceramic capacitor
X2/U5	DUAL_OPAMP amplifier, SO8	LM6142AIM		N/A	SO8	generic dual operational
X2/R5	RESISTOR	4.75k	1%	1/10W	0603	Resistor
X2/C3	CAPACITOR	620pF	10WVDC	X7R	0805	Ceramic capacitor
X2/R4	RESISTOR	14.7k	1%	1/10W	0603	Resistor
X2/R3	RESISTOR	1	1%	1/10W	0603	Resistor
X2/C2	CAPACITOR	1uF	10WVDC	X7R	0805	Ceramic capacitor
X2/C5	CAPACITOR	1uF	10WVDC	X7R	0805	Ceramic capacitor
X2/R2	RESISTOR	4.99	1%	1/10W	0603	Resistor
X2/C4	CAPACITOR	1uF	10WVDC	X7R	0805	Ceramic capacitor
X2/R1	RESISTOR	49.9	1%	1/10W	0603	Resistor
X2/U6	REFERENCE	REF43GS	N/A	SO8	2.5V	Reference
X2/R59	RESISTOR	49.9	1%	1/10W	0603	Resistor
X2/X4/R27	RESISTOR	44.2k	1%	1/10W	0603	Resistor
X2/X4/C3	CAPACITOR	4.7uF	10WVDC	X7R	1812	Ceramic capacitor
X2/X4/C24	CAPACITOR	7.5nF	16WVDC	X7R	0603	Ceramic capacitor
X2/X4/R28	RESISTOR	3.01k	1%	1/10W	0603	Resistor
X2/X4/R6	RESISTOR	1	1%	1/10W	0603	Resistor
X2/X4/C29	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
X2/X4/C30	POLARIZED_CAPACITOR		47uF	15WVDC	2711	Tantalum capacitor
X2/X4/R39	RESISTOR	15.0k	1%	1/10W	0603	Resistor
X2/X4/R40	RESISTOR	3.01k	1%	1/10W	0603	Resistor
X2/X4/C28	CAPACITOR	4.7uF	10WVDC	X7R	1812	Ceramic capacitor
X2/X4/C25	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor

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r					
X2/X4/R33	RESISTOR	330	1% 1/10W	0603	Resistor
X2/X4/R20	RESISTOR	1	1/4W 1206	0603	Resistor
X2/X4/C23	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X2/X4/R26	RESISTOR	1.05k	1% 1/10W	0603	Resistor
X2/X4/C10	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X2/X4/U10	DUAL_OPAMP	LM6142AIM	N/A	SO8	generic dual op
rational amplifier, SO8					
X2/X4/C14	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X2/X4/R18	RESISTOR	5.11	1% 1/10W	0603	Resistor
X2/X4/C13	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X2/X4/R17	RESISTOR	5.11	1% 1/10W	0603	Resistor
X2/X4/C11	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X2/X4/R16	RESISTOR	5.11	1% 1/10W	0603	Resistor
X2/X4/C5	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X2/X4/R5	RESISTOR	5.11	1% 1/10W	0603	Resistor
X2/X4/C9	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X2/X4/R21	RESISTOR	330	1% 1/10W	0603	Resistor
X2/X4/C8	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X2/X4/R22	RESISTOR	330	1% 1/10W	0603	Resistor
X2/X4/C7	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X2/X4/R23	RESISTOR	330	1% 1/10W	0603	Resistor
X2/X4/R42	RESISTOR	4.32k	1% 1/10W	0603	Resistor
X2/X4/R1	RESISTOR	4.32k	1% 1/10W	0603	Resistor
X2/X4/Q2	MMBFJ309	unknown	unknown SOT23	0603	n-channel jfet
X2/X4/C22	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X2/X4/R13	RESISTOR	46.4	1% 1/10W	0603	Resistor
X2/X4/R41	RESISTOR	301k	1% 0603	0603	Resistor
X2/X4/U6	ADA4805-1AKSZ	unknown	unknown SC70-6	0603	Fast opamp
X2/X4/U8	ADA4805-1AKSZ	unknown	unknown SC70-6	0603	Fast opamp
X2/X4/U5	ADA4805-1AKSZ	unknown	unknown SC70-6	0603	Fast opamp
X2/X4/U4	ADA4805-1AKSZ	unknown	unknown SC70-6	0603	Fast opamp
X2/X4/R24	RESISTOR	20	1% 1/10W	0603	Resistor
X2/X4/C16	CAPACITOR	1uF	10WVDC X7R	0805	Ceramic capacitor
r					
X2/X4/C4a	CAPACITOR	30pF	5% NP0 Vitreous	0505	Ceramic capacitor
r					
X2/X4/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X2/X4/R11	RESISTOR	2.00k	1% 0603	0603	Resistor
X2/X4/U12	MAX4594DCKR	unknown	unknown SC70	0603	SPST analog switch
X2/X4/C17	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X2/X4/R38	RESISTOR	3.00k	1% 0603	0603	Resistor
X2/X4/U11	MAX4594DCKR	unknown	unknown SC70	0603	SPST analog switch
X2/X4/C6	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
r					
X2/X4/U3	MAX4594DCKR	unknown	unknown SC70	0603	SPST analog switch
X2/X4/R25	RESISTOR	1.00Meg	1% 0603	0603	Resistor

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X2/X4/R19	RESISTOR	62	5% 0.15W	0805	Resistor
X2/X4/R15	RESISTOR	3.00k	1% 0603		Resistor
X2/X4/C12	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X2/X4/R4	RESISTOR	3.00k	1% 0603		Resistor
X2/X4/C20	CAPACITOR	1nF	50WVDC C0G	0603	Ceramic capacitor
X2/X4/C21	CAPACITOR	1nF	50WVDC C0G	0603	Ceramic capacitor
X2/X4/R14	RESISTOR	46.4	1% 1/10W	0603	Resistor
X2/X4/U9	AD7984BRMZ	unknown	unknown MSOP10		ADC
X2/X4/R7	RESISTOR	DNP	1% 1/10W	0603	Resistor
X2/X4/C18	CAPACITOR	DNP	25WVDC X7R	0603	Ceramic capacitor
X2/X4/C19	CAPACITOR	2pF	25WVDC X7R	0603	Ceramic capacitor
X2/X4/R10	RESISTOR	3.00k	1% 0603		Resistor
X2/X4/R12	RESISTOR	3.00k	1% 0603		Resistor
X2/X4/U7	MAX4594DCKR	unknown	unknown SC70		SPST analog switch
X2/X4/C4	CAPACITOR	100pF	5% NP0 Vitreous	0505	Ceramic capacitor
X2/X4/R2	RESISTOR	2.00k	1% 0603		Resistor
X2/X4/R9	RESISTOR	3.00k	1% 0603		Resistor
X2/X4/R8	RESISTOR	0	1% 0603		Resistor
X2/X4/C1	CAPACITOR	220pF	50WVDC 0805		Ceramic capacitor
X2/X3/R27	RESISTOR	44.2k	1% 1/10W	0603	Resistor
X2/X3/C3	CAPACITOR	4.7uF	10WVDC X7R	1812	Ceramic capacitor
X2/X3/C24	CAPACITOR	7.5nF	16WVDC X7R	0603	Ceramic capacitor
X2/X3/R28	RESISTOR	3.01k	1% 1/10W	0603	Resistor
X2/X3/R6	RESISTOR	1	1% 1/10W	0603	Resistor
X2/X3/C29	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X2/X3/C30	POLARIZED_CAPACITOR	47uF	15WVDC	2711	Tantalum capacitor
X2/X3/R39	RESISTOR	15.0k	1% 1/10W	0603	Resistor
X2/X3/R40	RESISTOR	3.01k	1% 1/10W	0603	Resistor
X2/X3/C28	CAPACITOR	4.7uF	10WVDC X7R	1812	Ceramic capacitor
X2/X3/C25	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X2/X3/R33	RESISTOR	330	1% 1/10W	0603	Resistor
X2/X3/R20	RESISTOR	1	1/4W 1206		Resistor
X2/X3/C23	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X2/X3/R26	RESISTOR	1.05k	1% 1/10W	0603	Resistor
X2/X3/C10	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X2/X3/U10	DUAL_OPAMP	LM6142AIM	N/A	SO8	generic dual operational amplifier, SO8
X2/X3/C14	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X2/X3/R18	RESISTOR	5.11	1% 1/10W	0603	Resistor
X2/X3/C13	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X2/X3/R17	RESISTOR	5.11	1% 1/10W	0603	Resistor
X2/X3/C11	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor

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X2/X3/R16	RESISTOR	5.11	1% 1/10W	0603	Resistor
X2/X3/C5	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X2/X3/R5	RESISTOR	5.11	1% 1/10W	0603	Resistor
X2/X3/C9	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X2/X3/R21	RESISTOR	330	1% 1/10W	0603	Resistor
X2/X3/C8	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X2/X3/R22	RESISTOR	330	1% 1/10W	0603	Resistor
X2/X3/C7	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X2/X3/R23	RESISTOR	330	1% 1/10W	0603	Resistor
X2/X3/R42	RESISTOR	4.32k	1% 1/10W	0603	Resistor
X2/X3/R1	RESISTOR	4.32k	1% 1/10W	0603	Resistor
X2/X3/Q2	MMBFJ309	unknown	unknown SOT23	n-channel	jfet
X2/X3/C22	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X2/X3/R13	RESISTOR	46.4	1% 1/10W	0603	Resistor
X2/X3/R41	RESISTOR	301k	1% 0603	0603	Resistor
X2/X3/U6	ADA4805-1AKSZ	unknown	unknown SC70-6	Fast	opamp
X2/X3/U8	ADA4805-1AKSZ	unknown	unknown SC70-6	Fast	opamp
X2/X3/U5	ADA4805-1AKSZ	unknown	unknown SC70-6	Fast	opamp
X2/X3/U4	ADA4805-1AKSZ	unknown	unknown SC70-6	Fast	opamp
X2/X3/R24	RESISTOR	20	1% 1/10W	0603	Resistor
X2/X3/C16	CAPACITOR	1uF	10WVDC X7R	0805	Ceramic capacitor
X2/X3/C4a	CAPACITOR	30pF	5% NP0 Vitreous	0505	Ceramic capacitor
X2/X3/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X2/X3/R11	RESISTOR	2.00k	1% 0603	0603	Resistor
X2/X3/U12	MAX4594DCKR	unknown	unknown SC70	SPST	analog switch
X2/X3/C17	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X2/X3/R38	RESISTOR	3.00k	1% 0603	0603	Resistor
X2/X3/U11	MAX4594DCKR	unknown	unknown SC70	SPST	analog switch
X2/X3/C6	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X2/X3/U3	MAX4594DCKR	unknown	unknown SC70	SPST	analog switch
X2/X3/R25	RESISTOR	1.00Meg	1% 0603	0603	Resistor
X2/X3/R19	RESISTOR	62	5% 0.15W	0805	Resistor
X2/X3/R15	RESISTOR	3.00k	1% 0603	0603	Resistor
X2/X3/C12	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X2/X3/R4	RESISTOR	3.00k	1% 0603	0603	Resistor
X2/X3/C20	CAPACITOR	1nF	50WVDC C0G	0603	Ceramic capacitor
X2/X3/C21	CAPACITOR	1nF	50WVDC C0G	0603	Ceramic capacitor
X2/X3/R14	RESISTOR	46.4	1% 1/10W	0603	Resistor
X2/X3/U9	AD7984BRMZ	unknown	unknown MSOP10	ADC	
X2/X3/R7	RESISTOR	DNP	1% 1/10W	0603	Resistor
X2/X3/C18	CAPACITOR	DNP	25WVDC X7R	0603	Ceramic capacitor
X2/X3/C19	CAPACITOR	2pF	25WVDC X7R	0603	Ceramic capacitor
X2/X3/R10	RESISTOR	3.00k	1% 0603	0603	Resistor
X2/X3/R12	RESISTOR	3.00k	1% 0603	0603	Resistor

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X2/X3/U7	MAX4594DCKR	unknown	unknown	SC70	SPST	analog switch	
X2/X3/C4	CAPACITOR	100pF	5%	NP0 Vitreous	0505	Ceramic capacitor	
X2/X3/R2	RESISTOR	2.00k	1%	0603		Resistor	
X2/X3/R9	RESISTOR	3.00k	1%	0603		Resistor	
X2/X3/R8	RESISTOR	0	1%	0603		Resistor	
X2/X3/C1	CAPACITOR	220pF	50WVDC	0805		Ceramic capacitor	
X2/X2/R27	RESISTOR	44.2k	1%	1/10W	0603	Resistor	
X2/X2/C3	CAPACITOR	4.7uF	10WVDC	X7R	1812	Ceramic capacitor	
X2/X2/C24	CAPACITOR	7.5nF	16WVDC	X7R	0603	Ceramic capacitor	
X2/X2/R28	RESISTOR	3.01k	1%	1/10W	0603	Resistor	
X2/X2/R6	RESISTOR	1	1%	1/10W	0603	Resistor	
X2/X2/C29	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor	
X2/X2/C30	POLARIZED_CAPACITOR		47uF	15WVDC	2711	Tantalum capacitor	
X2/X2/R39	RESISTOR	15.0k	1%	1/10W	0603	Resistor	
X2/X2/R40	RESISTOR	3.01k	1%	1/10W	0603	Resistor	
X2/X2/C28	CAPACITOR	4.7uF	10WVDC	X7R	1812	Ceramic capacitor	
X2/X2/C25	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor	
X2/X2/R33	RESISTOR	330	1%	1/10W	0603	Resistor	
X2/X2/R20	RESISTOR	1	1/4W	1206		Resistor	
X2/X2/C23	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor	
X2/X2/R26	RESISTOR	1.05k	1%	1/10W	0603	Resistor	
X2/X2/C10	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor	
X2/X2/U10	DUAL_OPAMP	LM6142AIM		N/A	SO8	generic dual operational amplifier, SO8	
X2/X2/C14	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor	
X2/X2/R18	RESISTOR	5.11	1%	1/10W	0603	Resistor	
X2/X2/C13	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor	
X2/X2/R17	RESISTOR	5.11	1%	1/10W	0603	Resistor	
X2/X2/C11	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor	
X2/X2/R16	RESISTOR	5.11	1%	1/10W	0603	Resistor	
X2/X2/C5	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor	
X2/X2/R5	RESISTOR	5.11	1%	1/10W	0603	Resistor	
X2/X2/C9	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor	
X2/X2/R21	RESISTOR	330	1%	1/10W	0603	Resistor	
X2/X2/C8	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor	
X2/X2/R22	RESISTOR	330	1%	1/10W	0603	Resistor	
X2/X2/C7	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor	
X2/X2/R23	RESISTOR	330	1%	1/10W	0603	Resistor	
X2/X2/R42	RESISTOR	4.32k	1%	1/10W	0603	Resistor	
X2/X2/R1	RESISTOR	4.32k	1%	1/10W	0603	Resistor	
X2/X2/Q2	MMBFJ309	unknown	unknown	SOT23		n-channel jfet	
X2/X2/C22	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor	

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X2/X2/R13	RESISTOR	46.4	1% 1/10W	0603	Resistor
X2/X2/R41	RESISTOR	301k	1% 0603	0603	Resistor
X2/X2/U6	ADA4805-1AKSZ	unknown	unknown SC70-6	Fast opamp	
X2/X2/U8	ADA4805-1AKSZ	unknown	unknown SC70-6	Fast opamp	
X2/X2/U5	ADA4805-1AKSZ	unknown	unknown SC70-6	Fast opamp	
X2/X2/U4	ADA4805-1AKSZ	unknown	unknown SC70-6	Fast opamp	
X2/X2/R24	RESISTOR	20	1% 1/10W	0603	Resistor
X2/X2/C16	CAPACITOR	1uF	10WVDC X7R	0805	Ceramic capacitor
X2/X2/C4a	CAPACITOR	30pF	5% NP0 Vitreous	0505	Ceramic capacitor
X2/X2/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X2/X2/R11	RESISTOR	2.00k	1% 0603	0603	Resistor
X2/X2/U12	MAX4594DCKR	unknown	unknown SC70	SPST analog switch	
X2/X2/C17	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X2/X2/R38	RESISTOR	3.00k	1% 0603	0603	Resistor
X2/X2/U11	MAX4594DCKR	unknown	unknown SC70	SPST analog switch	
X2/X2/C6	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X2/X2/U3	MAX4594DCKR	unknown	unknown SC70	SPST analog switch	
X2/X2/R25	RESISTOR	1.00Meg	1% 0603	0603	Resistor
X2/X2/R19	RESISTOR	62	5% 0.15W	0805	Resistor
X2/X2/R15	RESISTOR	3.00k	1% 0603	0603	Resistor
X2/X2/C12	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X2/X2/R4	RESISTOR	3.00k	1% 0603	0603	Resistor
X2/X2/C20	CAPACITOR	1nF	50WVDC C0G	0603	Ceramic capacitor
X2/X2/C21	CAPACITOR	1nF	50WVDC C0G	0603	Ceramic capacitor
X2/X2/R14	RESISTOR	46.4	1% 1/10W	0603	Resistor
X2/X2/U9	AD7984BRMZ	unknown	unknown MSOP10	ADC	
X2/X2/R7	RESISTOR	DNP	1% 1/10W	0603	Resistor
X2/X2/C18	CAPACITOR	DNP	25WVDC X7R	0603	Ceramic capacitor
X2/X2/C19	CAPACITOR	2pF	25WVDC X7R	0603	Ceramic capacitor
X2/X2/R10	RESISTOR	3.00k	1% 0603	0603	Resistor
X2/X2/R12	RESISTOR	3.00k	1% 0603	0603	Resistor
X2/X2/U7	MAX4594DCKR	unknown	unknown SC70	SPST analog switch	
X2/X2/C4	CAPACITOR	100pF	5% NP0 Vitreous	0505	Ceramic capacitor
X2/X2/R2	RESISTOR	2.00k	1% 0603	0603	Resistor
X2/X2/R9	RESISTOR	3.00k	1% 0603	0603	Resistor
X2/X2/R8	RESISTOR	0	1% 0603	0603	Resistor
X2/X2/C1	CAPACITOR	220pF	50WVDC 0805	0805	Ceramic capacitor
X2/X1/R27	RESISTOR	44.2k	1% 1/10W	0603	Resistor
X2/X1/C3	CAPACITOR	4.7uF	10WVDC X7R	1812	Ceramic capacitor
X2/X1/C24	CAPACITOR	7.5nF	16WVDC X7R	0603	Ceramic capacitor
X2/X1/R28	RESISTOR	3.01k	1% 1/10W	0603	Resistor
X2/X1/R6	RESISTOR	1	1% 1/10W	0603	Resistor
X2/X1/C29	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X2/X1/C30	POLARIZED_CAPACITOR	47uF	15WVDC	2711	Tantalum capacitor

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X2/X1/R39	RESISTOR	15.0k	1% 1/10W	0603	Resistor
X2/X1/R40	RESISTOR	3.01k	1% 1/10W	0603	Resistor
X2/X1/C28	CAPACITOR	4.7uF	10WVDC X7R	1812	Ceramic capacitor
X2/X1/C25	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X2/X1/R33	RESISTOR	330	1% 1/10W	0603	Resistor
X2/X1/R20	RESISTOR	1	1/4W 1206	0603	Resistor
X2/X1/C23	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X2/X1/R26	RESISTOR	1.05k	1% 1/10W	0603	Resistor
X2/X1/C10	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X2/X1/U10	DUAL_OPAMP	LM6142AIM	N/A	S08	generic dual operational amplifier, S08
X2/X1/C14	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X2/X1/R18	RESISTOR	5.11	1% 1/10W	0603	Resistor
X2/X1/C13	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X2/X1/R17	RESISTOR	5.11	1% 1/10W	0603	Resistor
X2/X1/C11	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X2/X1/R16	RESISTOR	5.11	1% 1/10W	0603	Resistor
X2/X1/C5	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X2/X1/R5	RESISTOR	5.11	1% 1/10W	0603	Resistor
X2/X1/C9	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X2/X1/R21	RESISTOR	330	1% 1/10W	0603	Resistor
X2/X1/C8	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X2/X1/R22	RESISTOR	330	1% 1/10W	0603	Resistor
X2/X1/C7	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X2/X1/R23	RESISTOR	330	1% 1/10W	0603	Resistor
X2/X1/R42	RESISTOR	4.32k	1% 1/10W	0603	Resistor
X2/X1/R1	RESISTOR	4.32k	1% 1/10W	0603	Resistor
X2/X1/Q2	MMBFJ309	unknown	unknown SOT23		n-channel jfet
X2/X1/C22	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X2/X1/R13	RESISTOR	46.4	1% 1/10W	0603	Resistor
X2/X1/R41	RESISTOR	301k	1% 0603	0603	Resistor
X2/X1/U6	ADA4805-1AKSZ	unknown	unknown SC70-6		Fast opamp
X2/X1/U8	ADA4805-1AKSZ	unknown	unknown SC70-6		Fast opamp
X2/X1/U5	ADA4805-1AKSZ	unknown	unknown SC70-6		Fast opamp
X2/X1/U4	ADA4805-1AKSZ	unknown	unknown SC70-6		Fast opamp
X2/X1/R24	RESISTOR	20	1% 1/10W	0603	Resistor
X2/X1/C16	CAPACITOR	1uF	10WVDC X7R	0805	Ceramic capacitor
X2/X1/C4a	CAPACITOR	30pF	5% NP0 Vitreous	0505	Ceramic capacitor
X2/X1/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X2/X1/R11	RESISTOR	2.00k	1% 0603	0603	Resistor
X2/X1/U12	MAX4594DCKR	unknown	unknown SC70		SPST analog switch
X2/X1/C17	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X2/X1/R38	RESISTOR	3.00k	1% 0603	0603	Resistor

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X2/X1/U11	MAX4594DCKR	unknown	unknown	SC70	SPST analog switch	
X2/X1/C6	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
X2/X1/U3	MAX4594DCKR	unknown	unknown	SC70	SPST analog switch	
X2/X1/R25	RESISTOR	1.00Meg	1%	0603	Resistor	
X2/X1/R19	RESISTOR	62	5%	0.15W	0805	Resistor
X2/X1/R15	RESISTOR	3.00k	1%	0603	Resistor	
X2/X1/C12	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
X2/X1/R4	RESISTOR	3.00k	1%	0603	Resistor	
X2/X1/C20	CAPACITOR	1nF	50WVDC	C0G	0603	Ceramic capacitor
X2/X1/C21	CAPACITOR	1nF	50WVDC	C0G	0603	Ceramic capacitor
X2/X1/R14	RESISTOR	46.4	1%	1/10W	0603	Resistor
X2/X1/U9	AD7984BRMZ	unknown	unknown	MSOP10	ADC	
X2/X1/R7	RESISTOR	DNP	1%	1/10W	0603	Resistor
X2/X1/C18	CAPACITOR	DNP	25WVDC	X7R	0603	Ceramic capacitor
X2/X1/C19	CAPACITOR	2pF	25WVDC	X7R	0603	Ceramic capacitor
X2/X1/R10	RESISTOR	3.00k	1%	0603	Resistor	
X2/X1/R12	RESISTOR	3.00k	1%	0603	Resistor	
X2/X1/U7	MAX4594DCKR	unknown	unknown	SC70	SPST analog switch	
X2/X1/C4	CAPACITOR	100pF	5%	NP0 Vitreous	0505	Ceramic capacitor
X2/X1/R2	RESISTOR	2.00k	1%	0603	Resistor	
X2/X1/R9	RESISTOR	3.00k	1%	0603	Resistor	
X2/X1/R8	RESISTOR	0	1%	0603	Resistor	
X2/X1/C1	CAPACITOR	220pF	50WVDC	0805	Ceramic capacitor	
Js	StackConn	unknown	unknown	RC422-200-101-3000	Stacking connector	
J1	Flexprint	unknown	unknown	NK-2M2-051	Airborne 51 pin connector	
X1/C39	CAPACITOR	1uF	10WVDC	X7R	0805	Ceramic capacitor
X1/R51	RESISTOR	330	5%	0.15W	0805	Resistor
X1/R53	RESISTOR	3.74k	1%	1/10W	0603	Resistor
X1/R52	RESISTOR	3.74k	1%	1/10W	0603	Resistor
X1/C38	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
X1/C37	CAPACITOR	22nF	50WVDC	X7R	0603	Ceramic capacitor
X1/U10	MAX308CSE+	unknown	unknown	SO16	8 input analog mux	
X1/C36	CAPACITOR	22nF	50WVDC	X7R	0603	Ceramic capacitor
X1/U9	AD5328	unknown	unknown	TSSOP16	Octal DAC	
X1/C35	CAPACITOR	1uF	10WVDC	X7R	0805	Ceramic capacitor
X1/R48	RESISTOR	330	5%	0.15W	0805	Resistor
X1/R50	RESISTOR	3.74k	1%	1/10W	0603	Resistor
X1/R49	RESISTOR	3.74k	1%	1/10W	0603	Resistor
X1/C34	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
X1/C33	CAPACITOR	22nF	50WVDC	X7R	0603	Ceramic capacitor
X1/U8	MAX308CSE+	unknown	unknown	SO16	8 input analog mux	
X1/C32	CAPACITOR	22nF	50WVDC	X7R	0603	Ceramic capacitor
X1/U7	AD5328	unknown	unknown	TSSOP16	Octal DAC	
X1/C31	CAPACITOR	0.1uF	25WVDC	X7R	0603	Ceramic capacitor
X1/L4	EXC-3BB102H	unknown	unknown	0603	EMI chip	
X1/C30	CAPACITOR	22nF	50WVDC	X7R	0603	Ceramic capacitor
X1/L3	EXC-3BB102H	unknown	unknown	0603	EMI chip	
X1/C29	CAPACITOR	22nF	50WVDC	X7R	0603	Ceramic capacitor
X1/L2	EXC-3BB102H	unknown	unknown	0603	EMI chip	
X1/L1	EXC-3BB102H	unknown	unknown	0603	EMI chip	

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X1/C28	CAPACITOR	22nF	50WVDC	X7R	0603	Ceramic capacitor
X1/X6/R14	RESISTOR	301k	1%	0603	0603	Resistor
X1/X6/R15	RESISTOR	301k	1%	0603	0603	Resistor
X1/X6/U1	DUAL_OPAMP	LT2078AIS8	N/A		SO8	unknown
X1/X6/R13	RESISTOR	1.00Meg	1%	0603	0603	Resistor
X1/X6/R8	RESISTOR	100k	1%	0603	0603	Resistor
X1/X6/R9	RESISTOR	300k	1%	0603	0603	Resistor
X1/X6/R10	RESISTOR	100k	1%	0603	0603	Resistor
X1/X6/R11	RESISTOR	301k	1%	0603	0603	Resistor
X1/X6/C4	CAPACITOR	330pF	50WVDC	X7R	0603	Ceramic capacitor
X1/X6/R12	RESISTOR	470	1% 1/10W		0603	Resistor
X1/X6/C5	CAPACITOR	47nF	50WVDC	X7R	0805	Ceramic capacitor
X1/X6/C3	CAPACITOR	22nF	50WVDC	X7R	0603	Ceramic capacitor
X1/X6/R6	RESISTOR	49.9	1% 1/10W		0603	Resistor
X1/X6/R7	RESISTOR	1.00Meg	1%	0603	0603	Resistor
X1/X6/R1	RESISTOR	100k	1%	0603	0603	Resistor
X1/X6/R2	RESISTOR	300k	1%	0603	0603	Resistor
X1/X6/R3	RESISTOR	100k	1%	0603	0603	Resistor
X1/X6/R4	RESISTOR	301k	1%	0603	0603	Resistor
X1/X6/C1	CAPACITOR	330pF	50WVDC	X7R	0603	Ceramic capacitor
X1/X6/R5	RESISTOR	470	1% 1/10W		0603	Resistor
X1/X6/C2	CAPACITOR	47nF	50WVDC	X7R	0805	Ceramic capacitor
X1/X5/R14	RESISTOR	301k	1%	0603	0603	Resistor
X1/X5/R15	RESISTOR	301k	1%	0603	0603	Resistor
X1/X5/U1	DUAL_OPAMP	LT2078AIS8	N/A		SO8	unknown
X1/X5/R13	RESISTOR	1.00Meg	1%	0603	0603	Resistor
X1/X5/R8	RESISTOR	100k	1%	0603	0603	Resistor
X1/X5/R9	RESISTOR	300k	1%	0603	0603	Resistor
X1/X5/R10	RESISTOR	100k	1%	0603	0603	Resistor
X1/X5/R11	RESISTOR	301k	1%	0603	0603	Resistor
X1/X5/C4	CAPACITOR	330pF	50WVDC	X7R	0603	Ceramic capacitor
X1/X5/R12	RESISTOR	470	1% 1/10W		0603	Resistor
X1/X5/C5	CAPACITOR	47nF	50WVDC	X7R	0805	Ceramic capacitor
X1/X5/C3	CAPACITOR	22nF	50WVDC	X7R	0603	Ceramic capacitor
X1/X5/R6	RESISTOR	49.9	1% 1/10W		0603	Resistor
X1/X5/R7	RESISTOR	1.00Meg	1%	0603	0603	Resistor
X1/X5/R1	RESISTOR	100k	1%	0603	0603	Resistor
X1/X5/R2	RESISTOR	300k	1%	0603	0603	Resistor
X1/X5/R3	RESISTOR	100k	1%	0603	0603	Resistor
X1/X5/R4	RESISTOR	301k	1%	0603	0603	Resistor
X1/X5/C1	CAPACITOR	330pF	50WVDC	X7R	0603	Ceramic capacitor
X1/X5/R5	RESISTOR	470	1% 1/10W		0603	Resistor
X1/X5/C2	CAPACITOR	47nF	50WVDC	X7R	0805	Ceramic capacitor
X1/R62	RESISTOR	49.9	1% 1/10W		0603	Resistor
X1/R57	RESISTOR	301k	1%	0603	0603	Resistor
X1/R54	RESISTOR	0	1%	0603	0603	Resistor
X1/R47	RESISTOR	3.01Meg	1%	0603	0603	Resistor
X1/R46	RESISTOR	37.4k	1%	0603	0603	Resistor
X1/C27	CAPACITOR	22nF	100WVDC	X7R	0805	Ceramic capacitor

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X1/R45	RESISTOR	40.2k	1%	0603	Resistor	
X1/C26	CAPACITOR	33nF	25WVDC	X7R 0603	Ceramic capacitor	
X1/R44	RESISTOR	604k	1%	0603	Resistor	
X1/R43	RESISTOR	10k	1%	0603	Resistor	
X1/C25	CAPACITOR	22nF	100WVDC	X7R 0805	Ceramic capacitor	
X1/R42	RESISTOR	10k	1%	0603	Resistor	
X1/Q2	PNP_TRANSISTOR	PMBTA92	unknown	UB	unknown	
X1/R41	RESISTOR	200k	1%	0603	Resistor	
X1/R40	RESISTOR	10k	1%	0603	Resistor	
X1/Q1	PNP_TRANSISTOR	PMBTA92	unknown	UB	unknown	
X1/C24	CAPACITOR	0.1uF	25WVDC	X7R 0603	Ceramic capacitor	
X1/R39	RESISTOR	133k	1%	0603	Resistor	
X1/U4	DUAL_OPAMP	LM6142AIM		N/A	SO8	generic dual operational amplifier, SO8
X1/R38	RESISTOR	604k	1%	0603	Resistor	
X1/R37	RESISTOR	392k	1%	0603	Resistor	
X1/R36	RESISTOR	200k	1%	0603	Resistor	
X1/C23	CAPACITOR	3.3nF	50WVDC	X7R 0603	Ceramic capacitor	
X1/R35	RESISTOR	470	1%	1/10W 0603	Resistor	
X1/C22	CAPACITOR	0.22uF	25WVDC	X7R 1206	Ceramic capacitor	
X1/U3	DUAL_OPAMP	LT2078AIS8		N/A	SO8	unknown
X1/C21	CAPACITOR	0.22uF	25WVDC	X7R 1206	Ceramic capacitor	
X1/C20	CAPACITOR	0.1uF	25WVDC	X7R 0603	Ceramic capacitor	
X1/R34	RESISTOR	44.2k	1%	0603	Resistor	
X1/R33	RESISTOR	604k	1%	0603	Resistor	
X1/R32	RESISTOR	56.2k	1%	0603	Resistor	
X1/R31	RESISTOR	200k	1%	0603	Resistor	
X1/C19	CAPACITOR	3.3nF	50WVDC	X7R 0603	Ceramic capacitor	
X1/R30	RESISTOR	470	1%	1/10W 0603	Resistor	
X1/R29	RESISTOR	44.2k	1%	0603	Resistor	
X1/R28	RESISTOR	604k	1%	0603	Resistor	
X1/R27	RESISTOR	56.2k	1%	0603	Resistor	
X1/R26	RESISTOR	200k	1%	0603	Resistor	
X1/C18	CAPACITOR	3.3nF	50WVDC	X7R 0603	Ceramic capacitor	
X1/R25	RESISTOR	470	1%	1/10W 0603	Resistor	
X1/C17	CAPACITOR	0.22uF	25WVDC	X7R 1206	Ceramic capacitor	
X1/U2	DUAL_OPAMP	LT2078AIS8		N/A	SO8	unknown
X1/C15	CAPACITOR	0.1uF	25WVDC	X7R 0603	Ceramic capacitor	
X1/C16	CAPACITOR	0.047uF	50WVDC	X7R 0603	Ceramic capacitor	
X1/R24	RESISTOR	54.9k	1%	0603	Resistor	
X1/R23	RESISTOR	82.5k	1%	0603	Resistor	
X1/R22	RESISTOR	604k	1%	0603	Resistor	
X1/R21	RESISTOR	953k	1%	0603	Resistor	
X1/R20	RESISTOR	200k	1%	0603	Resistor	
X1/C14	CAPACITOR	3.3nF	50WVDC	X7R 0603	Ceramic capacitor	
X1/R19	RESISTOR	470	1%	1/10W 0603	Resistor	
X1/C13	CAPACITOR	0.22uF	25WVDC	X7R 1206	Ceramic capacitor	
X1/R18	RESISTOR	54.9k	1%	0603	Resistor	
X1/R17	RESISTOR	82.5k	1%	0603	Resistor	
X1/R16	RESISTOR	604k	1%	0603	Resistor	
X1/R15	RESISTOR	953k	1%	0603	Resistor	
X1/R14	RESISTOR	200k	1%	0603	Resistor	
X1/C12	CAPACITOR	3.3nF	50WVDC	X7R 0603	Ceramic capacitor	
X1/R13	RESISTOR	470	1%	1/10W 0603	Resistor	
X1/C11	CAPACITOR	0.22uF	25WVDC	X7R 1206	Ceramic capacitor	
X1/R60	RESISTOR	49.9	1%	1/10W 0603	Resistor	
X1/R61	RESISTOR	49.9	1%	1/10W 0603	Resistor	
X1/C40	CAPACITOR	0.1uF	25WVDC	X7R 0603	Ceramic capacitor	
X1/U11	DUAL_OPAMP	LM6142AIM		N/A	SO8	generic dual operational amplifier, SO8

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amplifier, SO8							
X1/U1	DUAL_OPAMP	LT2078AIS8	N/A	SO8	unknown		
X1/R12	RESISTOR	24.9k	1% 1/10W	0603	Resistor		
X1/C10	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacitor		
X1/C9	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacitor		
X1/C8	CAPACITOR	0.1uF	25WVDC X7R	0603	Ceramic capacitor		
X1/R11	RESISTOR	54.9k	1% 0603	Resistor			
X1/R10	RESISTOR	82.5k	1% 0603	Resistor			
X1/R9	RESISTOR	604k	1% 0603	Resistor			
X1/R8	RESISTOR	953k	1% 0603	Resistor			
X1/R7	RESISTOR	200k	1% 0603	Resistor			
X1/C7	CAPACITOR	3.3nF	50WVDC X7R	0603	Ceramic capacitor		
X1/R6	RESISTOR	470	1% 1/10W	0603	Resistor		
X1/C6	CAPACITOR	0.22uF	25WVDC X7R	1206	Ceramic capacitor		
X1/U5	DUAL_OPAMP	LM6142AIM	N/A	SO8	generic dual operational		
amplifier, SO8							
X1/R5	RESISTOR	4.75k	1% 1/10W	0603	Resistor		
X1/C3	CAPACITOR	620pF	10WVDC X7R	0805	Ceramic capacitor		
X1/R4	RESISTOR	14.7k	1% 1/10W	0603	Resistor		
X1/R3	RESISTOR	1	1% 1/10W	0603	Resistor		
X1/C2	CAPACITOR	1uF	10WVDC X7R	0805	Ceramic capacitor		
X1/C5	CAPACITOR	1uF	10WVDC X7R	0805	Ceramic capacitor		
X1/R2	RESISTOR	4.99	1% 1/10W	0603	Resistor		
X1/C4	CAPACITOR	1uF	10WVDC X7R	0805	Ceramic capacitor		
X1/R1	RESISTOR	49.9	1% 1/10W	0603	Resistor		
X1/U6	REFERENCE	REF43GS	N/A SO8	2.5V	Reference		
X1/R59	RESISTOR	49.9	1% 1/10W	0603	Resistor		
X1/X4/R27	RESISTOR	44.2k	1% 1/10W	0603	Resistor		
X1/X4/C3	CAPACITOR	4.7uF	10WVDC X7R	1812	Ceramic capacitor		
X1/X4/C24	CAPACITOR	7.5nF	16WVDC X7R	0603	Ceramic capacitor		
X1/X4/R28	RESISTOR	3.01k	1% 1/10W	0603	Resistor		
X1/X4/R6	RESISTOR	1	1% 1/10W	0603	Resistor		
X1/X4/C29	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor		
X1/X4/C30	POLARIZED_CAPACITOR	47uF	15WVDC	2711	Tantalum capacitor		
X1/X4/R39	RESISTOR	15.0k	1% 1/10W	0603	Resistor		
X1/X4/R40	RESISTOR	3.01k	1% 1/10W	0603	Resistor		
X1/X4/C28	CAPACITOR	4.7uF	10WVDC X7R	1812	Ceramic capacitor		
X1/X4/C25	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor		
X1/X4/R33	RESISTOR	330	1% 1/10W	0603	Resistor		
X1/X4/R20	RESISTOR	1	1/4W 1206	Resistor			
X1/X4/C23	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor		
X1/X4/R26	RESISTOR	1.05k	1% 1/10W	0603	Resistor		
X1/X4/C10	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor		
X1/X4/U10	DUAL_OPAMP	LM6142AIM	N/A	SO8	generic dual operational amplifier, SO8		
X1/X4/C14	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor		
X1/X4/R18	RESISTOR	5.11	1% 1/10W	0603	Resistor		
X1/X4/C13	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor		
X1/X4/R17	RESISTOR	5.11	1% 1/10W	0603	Resistor		

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X1/X4/C11	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X1/X4/R16	RESISTOR	5.11	1% 1/10W	0603	Resistor
X1/X4/C5	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X1/X4/R5	RESISTOR	5.11	1% 1/10W	0603	Resistor
X1/X4/C9	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X1/X4/R21	RESISTOR	330	1% 1/10W	0603	Resistor
X1/X4/C8	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X1/X4/R22	RESISTOR	330	1% 1/10W	0603	Resistor
X1/X4/C7	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X1/X4/R23	RESISTOR	330	1% 1/10W	0603	Resistor
X1/X4/R42	RESISTOR	4.32k	1% 1/10W	0603	Resistor
X1/X4/R1	RESISTOR	4.32k	1% 1/10W	0603	Resistor
X1/X4/Q2	MMBFJ309	unknown	unknown SOT23	n-channel	jfet
X1/X4/C22	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X1/X4/R13	RESISTOR	46.4	1% 1/10W	0603	Resistor
X1/X4/R41	RESISTOR	301k	1% 0603	0603	Resistor
X1/X4/U6	ADA4805-1AKSZ	unknown	unknown SC70-6	Fast opamp	
X1/X4/U8	ADA4805-1AKSZ	unknown	unknown SC70-6	Fast opamp	
X1/X4/U5	ADA4805-1AKSZ	unknown	unknown SC70-6	Fast opamp	
X1/X4/U4	ADA4805-1AKSZ	unknown	unknown SC70-6	Fast opamp	
X1/X4/R24	RESISTOR	20	1% 1/10W	0603	Resistor
X1/X4/C16	CAPACITOR	1uF	10WVDC X7R	0805	Ceramic capacitor
X1/X4/C4a	CAPACITOR	30pF	5% NP0 Vitreous	0505	Ceramic capacitor
X1/X4/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X1/X4/R11	RESISTOR	2.00k	1% 0603	0603	Resistor
X1/X4/U12	MAX4594DCKR	unknown	unknown SC70	SPST analog switch	
X1/X4/C17	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X1/X4/R38	RESISTOR	3.00k	1% 0603	0603	Resistor
X1/X4/U11	MAX4594DCKR	unknown	unknown SC70	SPST analog switch	
X1/X4/C6	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X1/X4/U3	MAX4594DCKR	unknown	unknown SC70	SPST analog switch	
X1/X4/R25	RESISTOR	1.00Meg	1% 0603	0603	Resistor
X1/X4/R19	RESISTOR	62	5% 0.15W	0805	Resistor
X1/X4/R15	RESISTOR	3.00k	1% 0603	0603	Resistor
X1/X4/C12	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X1/X4/R4	RESISTOR	3.00k	1% 0603	0603	Resistor
X1/X4/C20	CAPACITOR	1nF	50WVDC C0G	0603	Ceramic capacitor
X1/X4/C21	CAPACITOR	1nF	50WVDC C0G	0603	Ceramic capacitor
X1/X4/R14	RESISTOR	46.4	1% 1/10W	0603	Resistor
X1/X4/U9	AD7984BRMZ	unknown	unknown MSOP10	ADC	
X1/X4/R7	RESISTOR	DNP	1% 1/10W	0603	Resistor
X1/X4/C18	CAPACITOR	DNP	25WVDC X7R	0603	Ceramic capacitor
X1/X4/C19	CAPACITOR	2pF	25WVDC X7R	0603	Ceramic capacitor

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X1/X4/R10	RESISTOR	3.00k	1%	0603	Resistor	
X1/X4/R12	RESISTOR	3.00k	1%	0603	Resistor	
X1/X4/U7	MAX4594DCKR	unknown	unknown	SC70	SPST analog switch	
X1/X4/C4	CAPACITOR	100pF	5%	NP0 Vitreous	0505	Ceramic capacitor
X1/X4/R2	RESISTOR	2.00k	1%	0603	Resistor	
X1/X4/R9	RESISTOR	3.00k	1%	0603	Resistor	
X1/X4/R8	RESISTOR	0	1%	0603	Resistor	
X1/X4/C1	CAPACITOR	220pF	50WVDC	0805	Ceramic capacitor	
X1/X3/R27	RESISTOR	44.2k	1% 1/10W	0603	Resistor	
X1/X3/C3	CAPACITOR	4.7uF	10WVDC X7R	1812	Ceramic capacitor	
X1/X3/C24	CAPACITOR	7.5nF	16WVDC X7R	0603	Ceramic capacitor	
X1/X3/R28	RESISTOR	3.01k	1% 1/10W	0603	Resistor	
X1/X3/R6	RESISTOR	1	1% 1/10W	0603	Resistor	
X1/X3/C29	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor	
X1/X3/C30	POLARIZED_CAPACITOR	47uF	15WVDC	2711	Tantalum capacitor	
X1/X3/R39	RESISTOR	15.0k	1% 1/10W	0603	Resistor	
X1/X3/R40	RESISTOR	3.01k	1% 1/10W	0603	Resistor	
X1/X3/C28	CAPACITOR	4.7uF	10WVDC X7R	1812	Ceramic capacitor	
X1/X3/C25	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor	
X1/X3/R33	RESISTOR	330	1% 1/10W	0603	Resistor	
X1/X3/R20	RESISTOR	1	1/4W 1206	0603	Resistor	
X1/X3/C23	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor	
X1/X3/R26	RESISTOR	1.05k	1% 1/10W	0603	Resistor	
X1/X3/C10	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor	
X1/X3/U10	DUAL_OPAMP	LM6142AIM	N/A	SO8	generic dual operational amplifier, SO8	
X1/X3/C14	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor	
X1/X3/R18	RESISTOR	5.11	1% 1/10W	0603	Resistor	
X1/X3/C13	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor	
X1/X3/R17	RESISTOR	5.11	1% 1/10W	0603	Resistor	
X1/X3/C11	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor	
X1/X3/R16	RESISTOR	5.11	1% 1/10W	0603	Resistor	
X1/X3/C5	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor	
X1/X3/R5	RESISTOR	5.11	1% 1/10W	0603	Resistor	
X1/X3/C9	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor	
X1/X3/R21	RESISTOR	330	1% 1/10W	0603	Resistor	
X1/X3/C8	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor	
X1/X3/R22	RESISTOR	330	1% 1/10W	0603	Resistor	
X1/X3/C7	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor	
X1/X3/R23	RESISTOR	330	1% 1/10W	0603	Resistor	
X1/X3/R42	RESISTOR	4.32k	1% 1/10W	0603	Resistor	
X1/X3/R1	RESISTOR	4.32k	1% 1/10W	0603	Resistor	
X1/X3/Q2	MMBFJ309	unknown	unknown	SOT23	n-channel jfet	

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X1/X3/C22 r	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X1/X3/R13	RESISTOR	46.4	1% 1/10W	0603	Resistor
X1/X3/R41	RESISTOR	301k	1% 0603	0603	Resistor
X1/X3/U6	ADA4805-1AKSZ	unknown	unknown SC70-6	Fast opamp	
X1/X3/U8	ADA4805-1AKSZ	unknown	unknown SC70-6	Fast opamp	
X1/X3/U5	ADA4805-1AKSZ	unknown	unknown SC70-6	Fast opamp	
X1/X3/U4	ADA4805-1AKSZ	unknown	unknown SC70-6	Fast opamp	
X1/X3/R24	RESISTOR	20	1% 1/10W	0603	Resistor
X1/X3/C16 r	CAPACITOR	1uF	10WVDC X7R	0805	Ceramic capacitor
X1/X3/C4a r	CAPACITOR	30pF	5% NP0 Vitreous	0505	Ceramic capacitor
X1/X3/C2 r	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X1/X3/R11	RESISTOR	2.00k	1% 0603	0603	Resistor
X1/X3/U12	MAX4594DCKR	unknown	unknown SC70	SPST analog switch	
X1/X3/C17 r	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X1/X3/R38	RESISTOR	3.00k	1% 0603	0603	Resistor
X1/X3/U11	MAX4594DCKR	unknown	unknown SC70	SPST analog switch	
X1/X3/C6 r	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X1/X3/U3	MAX4594DCKR	unknown	unknown SC70	SPST analog switch	
X1/X3/R25	RESISTOR	1.00Meg	1% 0603	0603	Resistor
X1/X3/R19	RESISTOR	62	5% 0.15W	0805	Resistor
X1/X3/R15	RESISTOR	3.00k	1% 0603	0603	Resistor
X1/X3/C12 r	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor
X1/X3/R4	RESISTOR	3.00k	1% 0603	0603	Resistor
X1/X3/C20 r	CAPACITOR	1nF	50WVDC C0G	0603	Ceramic capacitor
X1/X3/C21 r	CAPACITOR	1nF	50WVDC C0G	0603	Ceramic capacitor
X1/X3/R14	RESISTOR	46.4	1% 1/10W	0603	Resistor
X1/X3/U9	AD7984BRMZ	unknown	unknown MSOP10	ADC	
X1/X3/R7	RESISTOR	DNP	1% 1/10W	0603	Resistor
X1/X3/C18 r	CAPACITOR	DNP	25WVDC X7R	0603	Ceramic capacitor
X1/X3/C19 r	CAPACITOR	2pF	25WVDC X7R	0603	Ceramic capacitor
X1/X3/R10	RESISTOR	3.00k	1% 0603	0603	Resistor
X1/X3/R12	RESISTOR	3.00k	1% 0603	0603	Resistor
X1/X3/U7	MAX4594DCKR	unknown	unknown SC70	SPST analog switch	
X1/X3/C4 r	CAPACITOR	100pF	5% NP0 Vitreous	0505	Ceramic capacitor
X1/X3/R2	RESISTOR	2.00k	1% 0603	0603	Resistor
X1/X3/R9	RESISTOR	3.00k	1% 0603	0603	Resistor
X1/X3/R8	RESISTOR	0	1% 0603	0603	Resistor
X1/X3/C1	CAPACITOR	220pF	50WVDC 0805	0805	Ceramic capacitor
X1/X2/R27	RESISTOR	44.2k	1% 1/10W	0603	Resistor
X1/X2/C3 r	CAPACITOR	4.7uF	10WVDC X7R	1812	Ceramic capacitor
X1/X2/C24 r	CAPACITOR	7.5nF	16WVDC X7R	0603	Ceramic capacitor
X1/X2/R28	RESISTOR	3.01k	1% 1/10W	0603	Resistor
X1/X2/R6	RESISTOR	1	1% 1/10W	0603	Resistor
X1/X2/C29 r	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacitor

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X1/X2/C30	POLARIZED_CAPACITOR	47uF	15WVDC	2711	Tantalum capacit
or					
X1/X2/R39	RESISTOR	15.0k	1% 1/10W	0603	Resistor
X1/X2/R40	RESISTOR	3.01k	1% 1/10W	0603	Resistor
X1/X2/C28	CAPACITOR	4.7uF	10WVDC X7R	1812	Ceramic capacit
r					
X1/X2/C25	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacit
r					
X1/X2/R33	RESISTOR	330	1% 1/10W	0603	Resistor
X1/X2/R20	RESISTOR	1	1/4W 1206	Resistor	
X1/X2/C23	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacit
r					
X1/X2/R26	RESISTOR	1.05k	1% 1/10W	0603	Resistor
X1/X2/C10	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacit
r					
X1/X2/U10	DUAL_OPAMP	LM6142AIM	N/A	SO8	generic dual ope
rational amplifier, SO8					
X1/X2/C14	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacit
r					
X1/X2/R18	RESISTOR	5.11	1% 1/10W	0603	Resistor
X1/X2/C13	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacit
r					
X1/X2/R17	RESISTOR	5.11	1% 1/10W	0603	Resistor
X1/X2/C11	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacit
r					
X1/X2/R16	RESISTOR	5.11	1% 1/10W	0603	Resistor
X1/X2/C5	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacit
r					
X1/X2/R5	RESISTOR	5.11	1% 1/10W	0603	Resistor
X1/X2/C9	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacit
r					
X1/X2/R21	RESISTOR	330	1% 1/10W	0603	Resistor
X1/X2/C8	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacit
r					
X1/X2/R22	RESISTOR	330	1% 1/10W	0603	Resistor
X1/X2/C7	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacit
r					
X1/X2/R23	RESISTOR	330	1% 1/10W	0603	Resistor
X1/X2/R42	RESISTOR	4.32k	1% 1/10W	0603	Resistor
X1/X2/R1	RESISTOR	4.32k	1% 1/10W	0603	Resistor
X1/X2/Q2	MMBFJ309	unknown	unknown SOT23	n-channel jfet	
X1/X2/C22	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacit
r					
X1/X2/R13	RESISTOR	46.4	1% 1/10W	0603	Resistor
X1/X2/R41	RESISTOR	301k	1% 0603	Resistor	
X1/X2/U6	ADA4805-1AKSZ	unknown	unknown SC70-6	Fast opamp	
X1/X2/U8	ADA4805-1AKSZ	unknown	unknown SC70-6	Fast opamp	
X1/X2/U5	ADA4805-1AKSZ	unknown	unknown SC70-6	Fast opamp	
X1/X2/U4	ADA4805-1AKSZ	unknown	unknown SC70-6	Fast opamp	
X1/X2/R24	RESISTOR	20	1% 1/10W	0603	Resistor
X1/X2/C16	CAPACITOR	1uF	10WVDC X7R	0805	Ceramic capacit
r					
X1/X2/C4a	CAPACITOR	30pF	5% NP0 Vitreous	0505	Ceramic capacit
r					
X1/X2/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacit
r					
X1/X2/R11	RESISTOR	2.00k	1% 0603	Resistor	
X1/X2/U12	MAX4594DCKR	unknown	unknown SC70	SPST analog switch	
X1/X2/C17	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacit

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r						
X1/X2/R38	RESISTOR	3.00k	1%	0603	Resistor	
X1/X2/U11	MAX4594DCKR	unknown	unknown	SC70	SPST analog switch	
X1/X2/C6	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
r						
X1/X2/U3	MAX4594DCKR	unknown	unknown	SC70	SPST analog switch	
X1/X2/R25	RESISTOR	1.00Meg	1%	0603	Resistor	
X1/X2/R19	RESISTOR	62	5%	0.15W	0805	Resistor
X1/X2/R15	RESISTOR	3.00k	1%	0603	Resistor	
X1/X2/C12	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
r						
X1/X2/R4	RESISTOR	3.00k	1%	0603	Resistor	
X1/X2/C20	CAPACITOR	1nF	50WVDC	C0G	0603	Ceramic capacitor
r						
X1/X2/C21	CAPACITOR	1nF	50WVDC	C0G	0603	Ceramic capacitor
r						
X1/X2/R14	RESISTOR	46.4	1%	1/10W	0603	Resistor
X1/X2/U9	AD7984BRMZ	unknown	unknown	MSOP10	ADC	
X1/X2/R7	RESISTOR	DNP	1%	1/10W	0603	Resistor
X1/X2/C18	CAPACITOR	DNP	25WVDC	X7R	0603	Ceramic capacitor
r						
X1/X2/C19	CAPACITOR	2pF	25WVDC	X7R	0603	Ceramic capacitor
r						
X1/X2/R10	RESISTOR	3.00k	1%	0603	Resistor	
X1/X2/R12	RESISTOR	3.00k	1%	0603	Resistor	
X1/X2/U7	MAX4594DCKR	unknown	unknown	SC70	SPST analog switch	
X1/X2/C4	CAPACITOR	100pF	5%	NP0 Vitreous	0505	Ceramic capacitor
r						
X1/X2/R2	RESISTOR	2.00k	1%	0603	Resistor	
X1/X2/R9	RESISTOR	3.00k	1%	0603	Resistor	
X1/X2/R8	RESISTOR	0	1%	0603	Resistor	
X1/X2/C1	CAPACITOR	220pF	50WVDC	0805	Ceramic capacitor	
X1/X1/R27	RESISTOR	44.2k	1%	1/10W	0603	Resistor
X1/X1/C3	CAPACITOR	4.7uF	10WVDC	X7R	1812	Ceramic capacitor
r						
X1/X1/C24	CAPACITOR	7.5nF	16WVDC	X7R	0603	Ceramic capacitor
r						
X1/X1/R28	RESISTOR	3.01k	1%	1/10W	0603	Resistor
X1/X1/R6	RESISTOR	1	1%	1/10W	0603	Resistor
X1/X1/C29	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
r						
X1/X1/C30	POLARIZED_CAPACITOR	47uF	15WVDC		2711	Tantalum capacitor
or						
X1/X1/R39	RESISTOR	15.0k	1%	1/10W	0603	Resistor
X1/X1/R40	RESISTOR	3.01k	1%	1/10W	0603	Resistor
X1/X1/C28	CAPACITOR	4.7uF	10WVDC	X7R	1812	Ceramic capacitor
r						
X1/X1/C25	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
r						
X1/X1/R33	RESISTOR	330	1%	1/10W	0603	Resistor
X1/X1/R20	RESISTOR	1	1/4W	1206	Resistor	
X1/X1/C23	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
r						
X1/X1/R26	RESISTOR	1.05k	1%	1/10W	0603	Resistor
X1/X1/C10	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor
r						
X1/X1/U10	DUAL_OPAMP	LM6142AIM		N/A	SO8	generic dual operational amplifier, SO8
X1/X1/C14	CAPACITOR	0.1uF	16WVDC	X7R	0603	Ceramic capacitor

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r					
X1/X1/R18	RESISTOR	5.11	1% 1/10W	0603	Resistor
X1/X1/C13	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r					
X1/X1/R17	RESISTOR	5.11	1% 1/10W	0603	Resistor
X1/X1/C11	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r					
X1/X1/R16	RESISTOR	5.11	1% 1/10W	0603	Resistor
X1/X1/C5	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r					
X1/X1/R5	RESISTOR	5.11	1% 1/10W	0603	Resistor
X1/X1/C9	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r					
X1/X1/R21	RESISTOR	330	1% 1/10W	0603	Resistor
X1/X1/C8	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r					
X1/X1/R22	RESISTOR	330	1% 1/10W	0603	Resistor
X1/X1/C7	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r					
X1/X1/R23	RESISTOR	330	1% 1/10W	0603	Resistor
X1/X1/R42	RESISTOR	4.32k	1% 1/10W	0603	Resistor
X1/X1/R1	RESISTOR	4.32k	1% 1/10W	0603	Resistor
X1/X1/Q2	MMBFJ309	unknown	unknown SOT23		n-channel jfet
X1/X1/C22	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r					
X1/X1/R13	RESISTOR	46.4	1% 1/10W	0603	Resistor
X1/X1/R41	RESISTOR	301k	1% 0603		Resistor
X1/X1/U6	ADA4805-1AKSZ	unknown	unknown SC70-6		Fast opamp
X1/X1/U8	ADA4805-1AKSZ	unknown	unknown SC70-6		Fast opamp
X1/X1/U5	ADA4805-1AKSZ	unknown	unknown SC70-6		Fast opamp
X1/X1/U4	ADA4805-1AKSZ	unknown	unknown SC70-6		Fast opamp
X1/X1/R24	RESISTOR	20	1% 1/10W	0603	Resistor
X1/X1/C16	CAPACITOR	1uF	10WVDC X7R	0805	Ceramic capacito
r					
X1/X1/C4a	CAPACITOR	30pF	5% NP0 Vitreous	0505	Ceramic capacito
r					
X1/X1/C2	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r					
X1/X1/R11	RESISTOR	2.00k	1% 0603		Resistor
X1/X1/U12	MAX4594DCKR	unknown	unknown SC70		SPST analog switch
X1/X1/C17	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r					
X1/X1/R38	RESISTOR	3.00k	1% 0603		Resistor
X1/X1/U11	MAX4594DCKR	unknown	unknown SC70		SPST analog switch
X1/X1/C6	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r					
X1/X1/U3	MAX4594DCKR	unknown	unknown SC70		SPST analog switch
X1/X1/R25	RESISTOR	1.00Meg	1% 0603		Resistor
X1/X1/R19	RESISTOR	62	5% 0.15W	0805	Resistor
X1/X1/R15	RESISTOR	3.00k	1% 0603		Resistor
X1/X1/C12	CAPACITOR	0.1uF	16WVDC X7R	0603	Ceramic capacito
r					
X1/X1/R4	RESISTOR	3.00k	1% 0603		Resistor
X1/X1/C20	CAPACITOR	1nF	50WVDC C0G	0603	Ceramic capacito
r					
X1/X1/C21	CAPACITOR	1nF	50WVDC C0G	0603	Ceramic capacito
r					
X1/X1/R14	RESISTOR	46.4	1% 1/10W	0603	Resistor
X1/X1/U9	AD7984BRMZ	unknown	unknown MSOP10		ADC

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X1/X1/R7	RESISTOR	DNP	1% 1/10W	0603	Resistor
X1/X1/C18	CAPACITOR	DNP	25WVDC X7R	0603	Ceramic capacitor
X1/X1/C19	CAPACITOR	2pF	25WVDC X7R	0603	Ceramic capacitor
X1/X1/R10	RESISTOR	3.00k	1% 0603	0603	Resistor
X1/X1/R12	RESISTOR	3.00k	1% 0603	0603	Resistor
X1/X1/U7	MAX4594DCKR	unknown	unknown SC70	0505	SPST analog switch
X1/X1/C4	CAPACITOR	100pF	5% NP0 Vitreous	0505	Ceramic capacitor
X1/X1/R2	RESISTOR	2.00k	1% 0603	0603	Resistor
X1/X1/R9	RESISTOR	3.00k	1% 0603	0603	Resistor
X1/X1/R8	RESISTOR	0	1% 0603	0603	Resistor
X1/X1/C1	CAPACITOR	220pF	50WVDC 0805	0805	Ceramic capacitor

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