



IN2	IN1		
L	L	OFF	OPEN
L	H	COM = NO0	GND
H	L	COM = NO1	1V25
H	H	COM = NO2	INPUT

SDI
1V25
Input

5V0
R7 10k
+242.6mV
R9 510
-242.6mV
R12 510
R11 10k
5M0

5V0
C16 .1u
5V0
C17 .1u

NT2
A2
NT3
U5C
AD8295BCPZ-R7

5V0
C18 .1u

5V0
C19 .1u

Title			IHMC 40 S. Alcaniz St. Pensacola, Florida 32502 www.ihmc.us 850.202.4400	
Size: A	Number:	Revision:		
Date: 7/11/2012	Time: 10:27:04 AM	Sheet of		
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Engineer:*				
Checked:*				



Supplier Part	Manufacturer	Manufacturer Part	Library Reference	Supplier 1	Designator	Footprint
	Generic Component		HDR2X2, HEADER 2, Header 5		J1, J2, J3, J4, J5, J6, J7	HDR1X5, HDR2X2
1.00KLCT-ND	Vishay Dale	21K00FKED	1/16W 1% 0402 SMD	Digi-Key	R11	0402
67P3839	ABRACON	12.000MHZ-D2Y-T	MHZ 18PF SMD ABM7-12.000MHZ-	Newark	Y1	ABM7
AD3101B-RMZ10-	Analog Devices	AD3101B-RMZ10	IC DIGITAL POT SPI 10K 10-MSOP	Digi-Key	U16, U17, U18, U19	rm-10
ADR431A-RMZ-ND	Devices Inc	ADR431A-RMZ	PREC 2.5V 8-MSOP	Digi-Key	U13	RM-8
MCP2210-I/MQ-ND	Microchip Technology	MCP2210-I/MQ	IC CONVERTER USB-PCI 20-QFN	Digi-Key	U14	QFN-ML20_3
RHM510LCT-ND	Semiconductor	MCR01MZPF5100	1/16W 1% 0402 SMD	Digi-Key	R16, R17, R20, R22, R23, R25, R27, R29	0402
P29.4KLC T-ND	Panasonic - ECG	2AEB2942X	1/16W .1% 0402 SMD ERA-	Digi-Key	R12	0402
587-1203-1-ND	Taiyo Yuden	UMK105CG220JV-F	50V C0G 0402 UMK105CG220JV-	Digi-Key	C37, C38	0402
587-1210-1-ND	Taiyo Yuden	UMK105CG820JV-F	50V 5% NP0 0402 UMK105CG820JV-	Digi-Key	C35	0402
445-1359-1-ND	Corporation	C2012X7R1A105K	10% X7R 0805 C2012X7R1A105K	Digi-Key	C33	0805
511-1652-1-ND	Semiconductor	P11MTT86	54MW 20MA SMD SML-P11MTT86	Digi-Key	LED1	0402_LED_GRN
490-4048-1-ND	Electronics North	N220M52L	200MA 0806 LQH2MCN220M52L	Digi-Key	L1, L2	0806
P10KDCC T-ND	Panasonic - ECG	2AEB103X	1/16W .1% 0402 SMD ERA-	Digi-Key	R15, R18, R19, R21, R24, R26, R28, R30	0402
P510DCC T-ND	Panasonic - ECG	2AEB511X	1/16W .1% 0402 SMD ERA-	Digi-Key	R1, R2, R3, R4, R5, R6, R7, R9	0402
MBR0520LCT-ND	Semiconductor	MBR0520L	0.5A 20V SOD-123 MBR0520L	Digi-Key	D1	SOD-123_DIODE
587-2562-1-ND	Taiyo Yuden	J106MALT-D	10V X5R 20% 0603 LMK107BJ106MAL	Digi-Key	C30	0603
587-1384-1-ND	Taiyo Yuden	JMK325BJ226MM-T	6.3V 20% X5R 1210	Digi-Key	C31	1210
478-3048-1-ND	Corporation	M010RNJ	10V 20% 1210	Digi-Key	C36	1210
296-21193-1-ND	Instruments	TS5A3359DCUR	SWITCH 8-VSSOP TS5A3359	Digi-Key	U7, U8, U9, U10	8-VSSOP
5#TRMPBFCT-ND	Technology	5#TRMPBF	INVERTER ADJ 0.3A SOT23-5	Digi-Key	U15	SOT-23-5
CPZRL7CT-ND	Devices Inc	AD7690B-CPZRL7	400KSPS 10-LFCSP	Digi-Key	U1, U2, U3, U6	QFN127P600-8N_NOVIA
490-1318-1-ND	Murata Electronics North America	GRM155R61A104KA01D	CAP CER .1UF 10V 10% X5R 0402 GRM155R61A104KA01D	Digi-Key	C1, C2, C3, C6, C9, C10, C11, C12, C13, C14, C17, C18, C19, C20, C21, C22, C23, C25, C27, C28, C29,	0402
490-5419-1-ND	Electronics North	71E222KA01D	25V 10% X7R 0402 GRM155R71E222K	Digi-Key	C4, C5, C7, C8, C15, C16, C24, C26	0402
478-1249-1-ND	Corporation	0603YD105KAT2A	16V X5R 0603 0603YD105KAT2A	Digi-Key	C43	0603
AD8295BCI	Analog Devices	AD8295BCI	IC AMP INST 1MHZ	Digi-Key	U4, U5, U11, U12	LFCSF_VQ