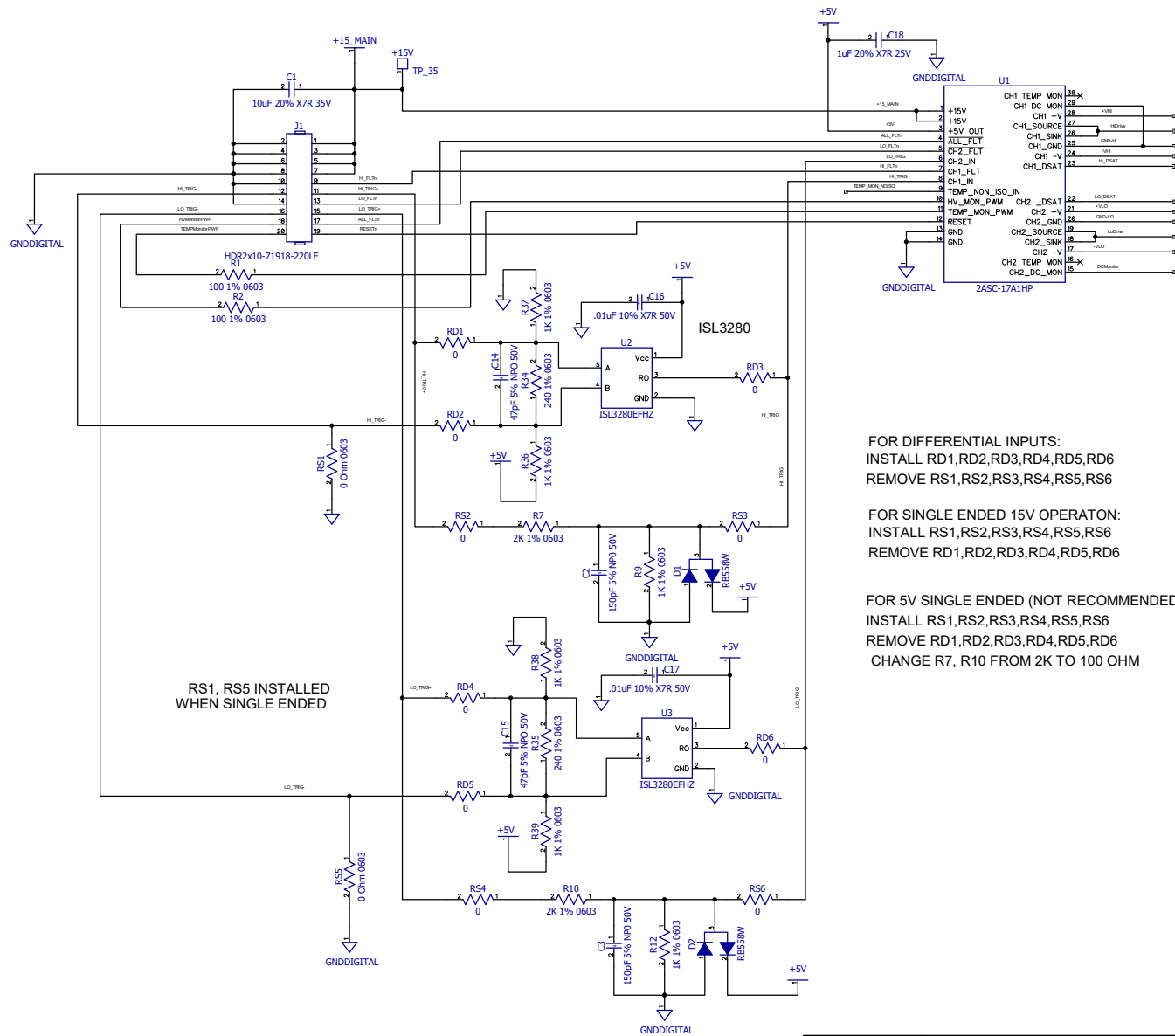


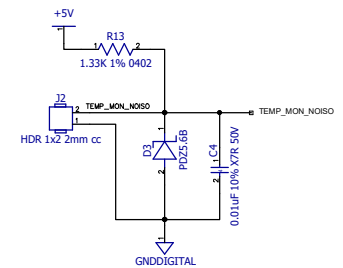


FOR DIFFERENTIAL INPUTS:
INSTALL RD1,RD2,RD3,RD4,RD5,RD6
REMOVE RS1,RS2,RS3,RS4,RS5,RS6

FOR SINGLE ENDED 15V OPERATION:
INSTALL RS1,RS2,RS3,RS4,RS5,RS6
REMOVE RD1,RD2,RD3,RD4,RD5,RD6

FOR 5V SINGLE ENDED (NOT RECOMMENDED)
INSTALL RS1,RS2,RS3,RS4,RS5,RS6
REMOVE RD1,RD2,RD3,RD4,RD5,RD6
CHANGE R7, R10 FROM 2K TO 100 OHM

NON ISOLATED TEMP SENSOR



AGILESWITCH LLC

62CA4 - 1700V 62MM SIC MODULE ADAPTER

Size

B

CONTROL I/O

Rev

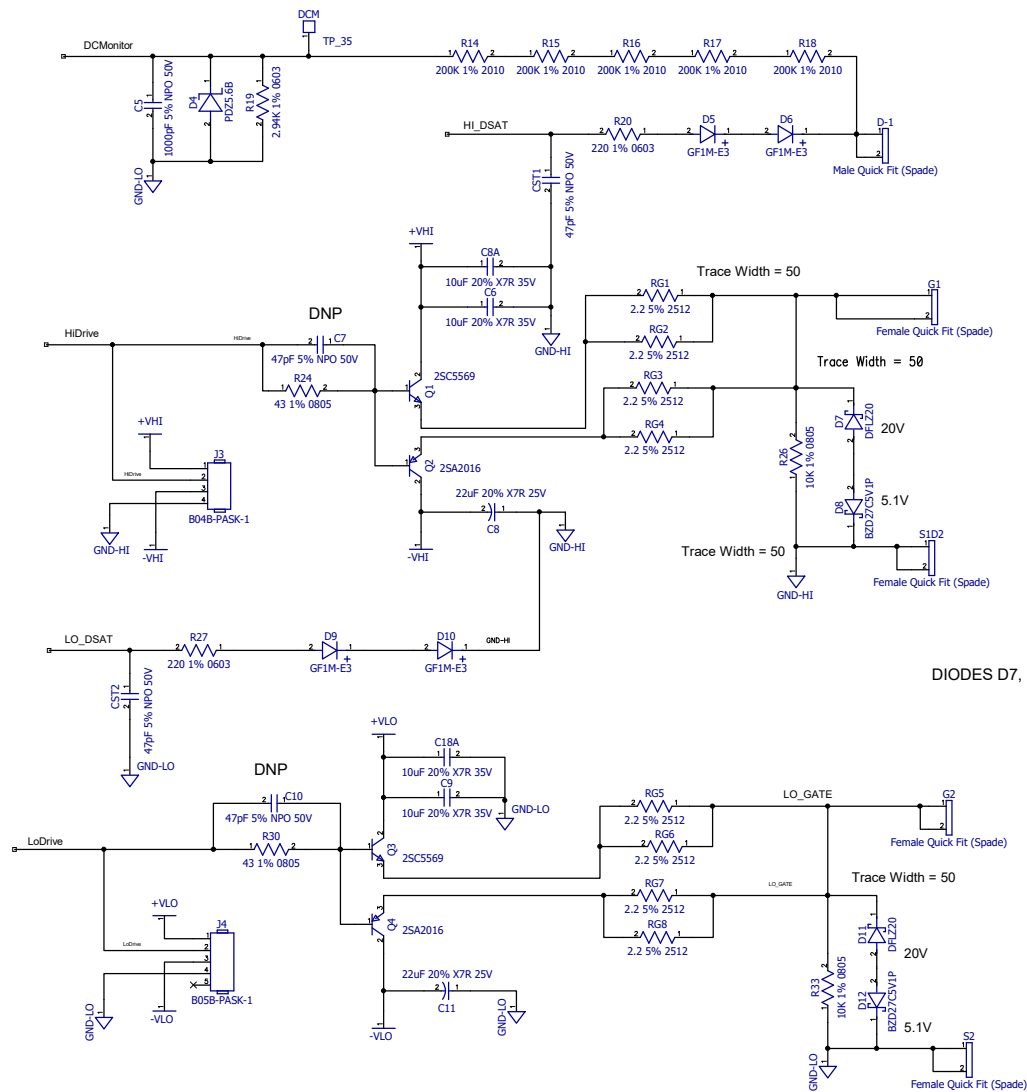
A

Date: March 28, 2019

Drawn by: AJC

Filename

Sheet 1 of 2



AGILESWITCH, LLC

62CA4 - 1700V 62MM SIC MODULE ADAPTER

Size	Number	Rev
B	HI & LO SIDE DRIVERS	A
Date: March 28, 2018		Drawn by AJC
Filename		Sheet 2 of 2

AgileSwitch, LLC Bill of Materials		CONFIDENTIAL AND PROPRIETARY
Part:	62CA4-00001	RoHS Compliant = Yes
Version:	1	This Adapter Board is designed for developing gate drive boards for evaluation purposes. This design has not been qualified for production.
Date:	4/17/2019	
Description:	Adapter for 2ASC-17A1HP and 1700V 62mm SiC Modules	

NOTE: All Rs and Cs have a Manufacturer and part number but can be substituted with a different manufacturer if spec is the same for lower cost, unless otherwise

Item	Qty	RefDes	Value	Name	Manufacturer	Manufacturer Part No	Notes
1	1	AS-17500 Rev 1	PCB	62CA4 PCB	AgileSwitch	AS-17500 Rev 1	
2	5	C1, C6, C9, C18A, C8A	10uF 20% X7R 35V	CAP_1206	TDK	C3216X7R1V106M160AC	
3	2	C14, C15	47pF 5% NPO 50V	CAP_0402	Murata	GRM1555C1H470JA01D	
4	2	C16, C17	.01uF 10% X7R 50V	CAP_0402	Samsung	CL05B103KB5NNNC	
5	1	C18	1uF 20% X7R 25V	CAP_0603	Samsung	CL10B105KA8NNNC	
6	2	C2, C3	150pF 5% NPO 50V	CAP_0402	Murata	GRM1555C1H151FA01D	
7	1	C4	0.01uF 10% X7R 50V	CAP_0402	Samsung	CL05B103KB5NNNC	
8	1	C5	1000pF 5% NPO 50V	CAP_0603	AVX	06035A102KAT2A	
9	4	C7, C10, CST1, CST2	47pF 5% NPO 50V	CAP_0603	KEMET	CBR06C470JAGAC	
10	2	C8, C11	22uF 20% X7R 25V	CAP_1210	KEMET	C1210C226M3RACTU	
11	1	D-1	1285-ST	Male Quick Fit (Spade)	Keystone	1285-ST	
12	2	D1, D2	RB558W	RB558W	Rohm	RB558WTL	
13	2	D3, D4	5.6V	PDZ5.6B	NXP	PDZ5.6B,115	
14	4	D5, D6, D9, D10	High Voltage Diode	GF1M-E3	Vishay	GF1M-E3	
15	2	D7, D11	17V	DFLZ20	Diodes Inc	DFLT17	
16	2	D8, D12	5.1V	BZD27C5V1P	Vishay	BZD27C5V1P-E3-08	
17	4	G1, G2, S2, S1D2	3534	Female Quick Fit (Spade)	Keystone	3534	
18	1	J1	71918-220LF or 1-969973-0	HDR2x10-71918-220LF	FCI	71918-220LF	
19	1	J2	B02B-PASK or S02B-PASK-2	HDR 1x2 2mm cc	JST Sales America		
20	1	J3	B04B-PASK-1	HDR 1x4 2mm cc	JST Sales America		DNP
21	1	J4	B05B-PASK-1	HDR 1x5 2mm cc	JST Sales America		DNP
22	2	Q1, Q3	NPN SOT89	2SC5569	On Semi	2SC5569-TD-E	
23	2	Q2, Q4	PNP SOT89	2SA2016	On Semi	2SA2016-TD-E	
24	2	R1, R2	100 1% 0603	RES_0603	Yageo	RC0603FR-07100RL	
25	1	R13	1.33K 1% 0402	RES_0402	Yageo	RC0402FR-071K33L	
26	5	R14, R15, R16, R17, R18	200K 1% 2010	RES_2010	Stackpole	RMCF2010FT200K	
27	1	R19	2.94K 1% 0603	RES_0603	Yageo	RC0603FR-072K94L	
28	2	R20, R27	220 1% 0603	RES_0603	Yageo	RC0603FR-07220RL	
29	2	R24, R30	43 1% 0805	RES_0805	Panasonic	ERJ-6ENF43R2V	
30	2	R26, R33	10K 1% 0805	RES_0805	Stackpole	RMCF0805FT10K0	
31	2	R34, R35	240 1% 0603	RES_0603	Yageo	RC0603FR-07240RL	
32	2	R7, R10	2K 1% 0603	RES_0603	Yageo	RC0603FR-072KL	
33	6	R9, R12, R36, R37, R38, R39	1K 1% 0603	RES_0603	Yageo	RC0603FR-071KL	
34	6	RD1, RD2, RD3, RD4, RD5, RD6	0 Ohm 0603	RES_0603	Panasonic	ERJ-1GNOR00C	DNP
35	8	RG1, RG2, RG3, RG4, RG5, RG6, RG7, RG8	2.2 5% 2512	RES_2512	ROHM	MCR100JZHJ2R2	
36	6	RS1, RS2, RS3, RS4, RS5, RS6	0 Ohm 0603	RES_0603	Panasonic	ERJ-1GNOR00C	
37	1	U1	2ASC-17A1HP-V01	1700V Dual-Channel High P	AgileSwitch	2ASC-17A1HP	DNP
38	2	U2, U3		ISL3280EFHZ	Intersil	ISL3280EFHZ-T	