

Demo Board Schematic/Bill-of-Materials

BILL OF MATERIALS

Item	Qty	Reference	Part	Description	Stock Number
1	18	CP1,CP2,Vreg,Vcp,VDD, SLEEP,ROSC,REF,GND OUTB,OUTA,BLK,MODE, EN,PFD1,PFD2,PH,VBB	TP	Keystone 5000 Test Points, red Digi-Key# 5000K-ND	
2	3	C1,C3,C9	0.22uf	Cap. Murata RPE113X7R224K100V,Radial,100v	
3	1	C2	10uf	Cap, Vishay-Sprague 515D10M063JA6A,50V	101166
4	2	C4,C8	0.22uf	Cap, Vishay-Sprague 1C2OZ5U224M050B, 50V	101212
5	1	C5	47uf	Cap., Panasonic ECE-A1JFS470, HFS Series, Low Impedance	
6	3	C10,C6,C7	0.1uf	Cap,Kemet C322C104M5U5CA 50V	101210
7	4	D2-D4,D16	TBD	Diode, To Be Determined (Do not kit or install)	
8	7	JMP1-JMP7	HEADER	3M 929834-01-36 Strip Header 2 PINS PER HEADER	101229
9	1	E1 to E2	WIRE	20 AWG SOLID BUS 2" LONG	
10	1	J1	DUAL18CON	Location for twisted pair wires NO PARTS DO NOT INSTALL	
11	1	J2	HEADER13X2	Header, Dual, 3M 929665-01-36-1	101230
12	2	J4,J3	CON2	PCB,Term BLK, O.S.T. ED120/2DS 2 POS. Digi-Key ED-1609-ND	101237
13	2	J5	CON4	PCB,Term BLK, O.S.T. ED120/2DS 2 POS. CON4= TWO 2 POS. CONN. Digi-Key ED-1609-ND	101237
14	1	J11	HEADER	3M 929834-01-36 Strip Header 3 PINS PER HEADER	101229
15	1	R1	0.1ohm	Resistor, Vishay/Dale NS21<1% Newark InOne # 25C3191	101588
16	1	R3	13K	Generic carbon composition resistor, 1/4WATT, +/-5%	
17	2	R5	4.7K	Res. Network, Dale 4610X-101-472 10 PIN SIP	101632
18	1	U1	A3959SB	Allegro, DMOS Full-bridge PWM Motor Driver. Do not kit or install.	

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BILL OF MATERIALS (continued)

Item	Qty	Reference	Part	Description	Stock Number
19	1	U2	4050	CMOS Hex Buffer/Converter 16 PIN Ex. TI CD74HC4050	
20	1	R8	51K	Generic carbon composition resistor, 1/4WATT, +/-5%	
21	1	XU2	SOCKET	16 PIN DIP ELPACKCO 10-3-14-08-TG	101433
22	1	XU1b	SOCKET	3M Robinson Nugent ICO-243-S8A-T 24 pin Dip Socket, pitch .1" Spacing .3" Newark InOne # 16F2181	
23	8	XR3,XR4,XC1,XC3	SOCKET	PLACE THESE PARTS IN BAR SOCKETS Samtec SS-120-T-1C	101514
24	8	for J11,JMP1-JMP7	SHUNT	3M 929950-00 or Sullins Electronics Corp. STC02SYAN	101227
25	4		Bumper	Keystone 720, recessed, #4 screw, 1/4" Mouser Part Number 534-720	
26	4		SCREWS	4-40 X 1/4" long Round Head	
27	4		NUT	#4	
28	1	R4	5.6K	Generic carbon composition resistor, 1/4WATT, +/-5%	
29	1	JP1	JUMPER WIRE	BUS, WIRE, 20AWG, ~2" LONG Make jumper ~1/4" high	
30	1	R7	30K	Generic carbon composition resistor, 1/4WATT, +/-5%	



Revision History

Number	Date	Description
–	November 11, 2016	Initial release

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