

A3958SB DEMO BOARD  
76-0788-000-BOM

Revised: November 14, 2000  
Revision: 4

ALLEGRO MICROSYSTEMS, INC.  
WORCESTER, MA 01615

Originator: Joyce Roche

Bill Of Materials

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Item	Qty	Reference	Part	Description	Allegro Stock Number
1	19	CP1,CP2,Vreg,Vcp,VDD, TRIG,STRB,REF,RAN,GND OUTB,OUTA,OSC,MODE, EN,DATA,CLK,PH,VBB	TP	Component Corporation 104-30-02 Test Points, Red Distributor; Papi Supply	101539
2	3	C1,C3,C9	0.22uf	Cap. Murata RPE113X7R224K100V,Radial,100v	
3	1	C2	10uf	Cap, Vishay-Sprague 515D106M063JA6A,63V	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	2	C10,C6	0.1uf	Cap, Kemet, C322C104M1U5CA 50V	101210
7	4	D1-D4	TBD	Diode, To Be Determined	
8	4	E3,E4,E5,E6	EPAD	Pads for future wires <b>NO PARTS DO NOT INSTALL</b>	
9	1	E1 to E2 AND	WIRE	20AWG SOLID BUS 2" LONG	
10	1	J1	DUAL18CON	Location for twisted pair wires <b>NO PARTS DO NOT INSTALL</b>	
11	1	J2	HEADER13X2	Header, Dual, 3M 929665-01-36-1	101230
12	2	J4,J3	CON2	PCB,Term BLK, O.S.T ED1609 2 POS.	101237
13	2	J5	CON4	PCB,Term BLK, O.S.T ED1609 2 POS. CON4= TWO 2 POS. CONN.	101237
14	1	J11	HEADER	3M 929834-01-36 Strip Header 3 PINS PER HEADER	101229
15	1	R1	0.25ohm	Resistor, N1-PCB-NS1A-.25 1%	101587
16	1	R3	22.1K	Resistor, 1/2WATT, +/-1%	
17	2	R5,R6	4.7K	Res. Network, Dale 4610X-101-472 10 PIN SIP	101632
18	1	U1	A3958SB	Allegro, DMOS Full-bridge PWM Motor Driver	
19	2	U2,U3	74LS07	Hex Buffer/Driver (Open Collector)	

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115 NORTHEAST CUTOFF  
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20	1	U4	XTAL14	4 MHZ DALE XO-43B	101759
21	3	XU2,XU3,XU4	SOCKET	14 PIN DIP ELPKCO 10-3-14-08-TG	101432
22	1	XU1b	SOCKET	24 PIN .3 Dip EMC 26-324-51-517	101425
23	8	XR3,XR4,XC1,XC3	SOCKET	PLACE THESE PARTS IN BAR SOCKETS	101514
24	1	for J11	SHUNT	3M 925250-R	101227
25	4		Bumper	Keystone 720, recessed, #4screw, 1/4"	
26	4		SCREWS	4-40 X 1/4" long Round Head	
27	4		NUT	#4	
28	1	R4	16.9K	Resistor, 1/2WATT, +/-1%	
29	1	JP1	JUMPER	BUS, WIRE, 20AWG, ~2" LONG Make jumper ~1/4"high	
30	1	R7	30.1K	Resistor, 1/2WATT, +/-1%	