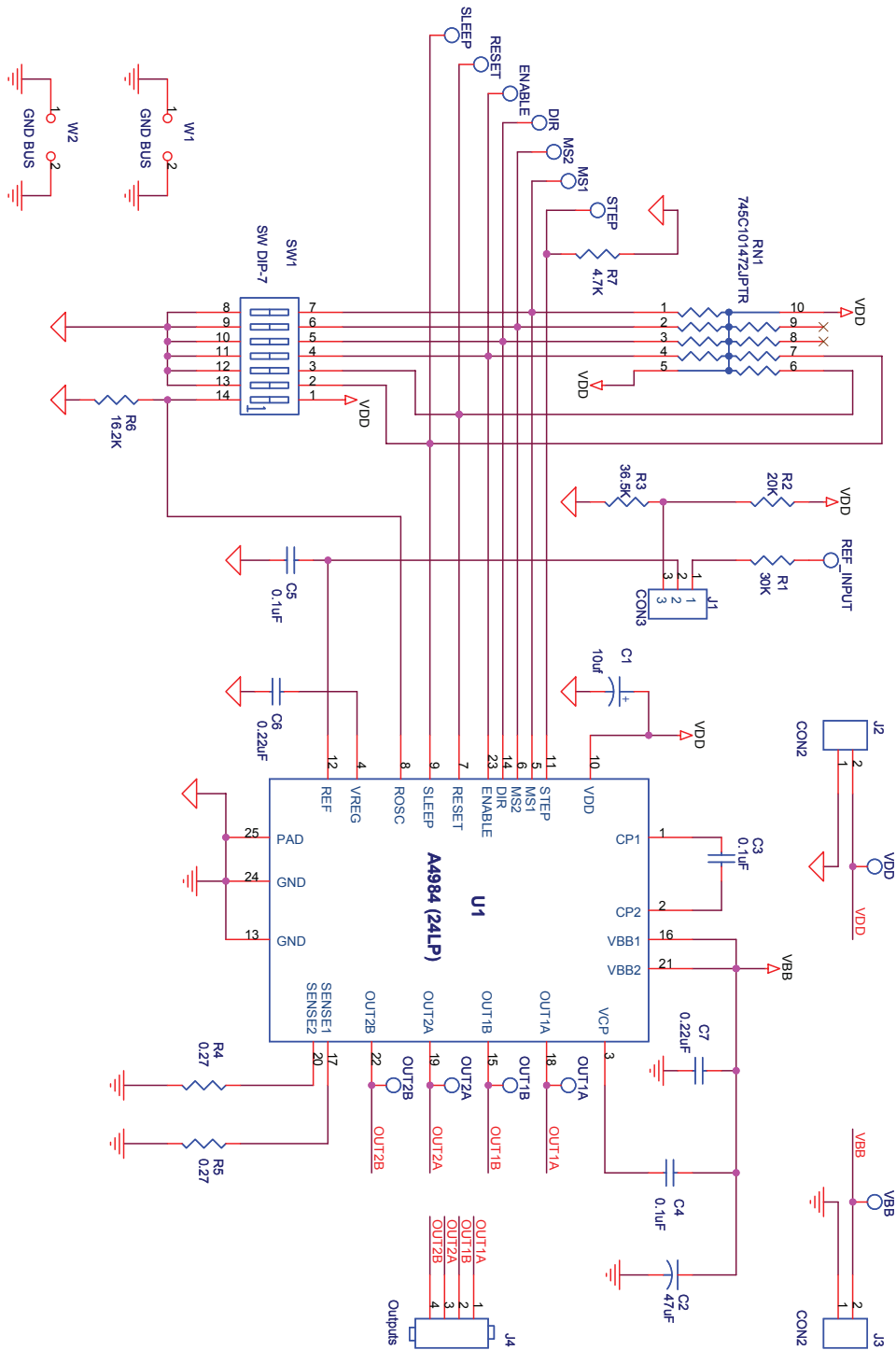


Demo Board Schematic/Layout

SCHEMATIC



LAYOUT

ALL COMPONENTS MUST BE ROHS COMPLIANT.

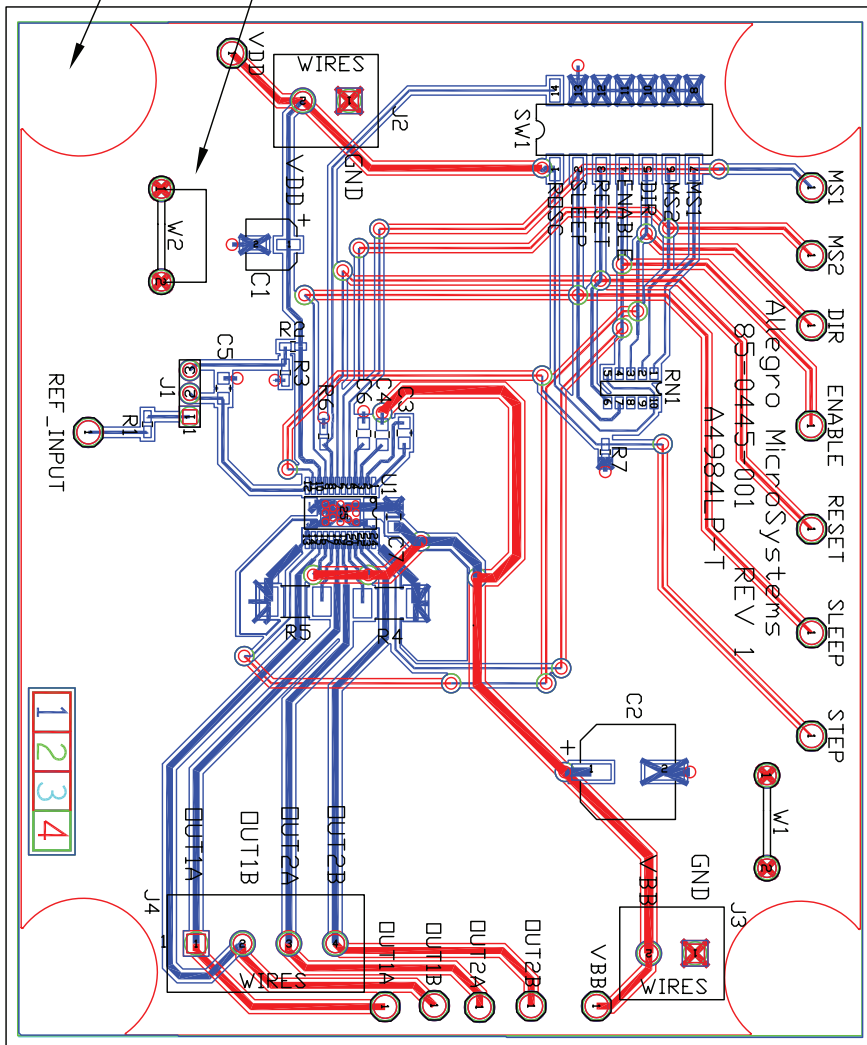
USE LEAD FREE SOLDER

VIEW IS TOP SILKSCREEN

THIS BOARD HAS 4 LAYERS

MAKE W1 AND W2 WIRES A FINISHED HEIGHT OF .25" - .4" FROM THE BOARD.

PLACE BUMPS ON BOTTOM 4 CORNERS OF PC BOARD.



BILL OF MATERIALS

ALL COMPONENTS MUST BE ROHS COMPLIANT

Item	Qty	Part Reference	Value	Manufacturer	Manufacturer Number	Description	PCB Footprint
1	14	OUT1A,OUT1B, OUT2A,OUT2, STEP,MS1,MS2, DIR,ENABLE, RESET,SLEEP, REF_INPUT,VDD VBB,	TP	Keystone Electronics	5005	TEST POINT PC COMPACT .063"D RED	TP
2	1	C1	10uf	Panasonic-ECG	EEE-1EA100SR	CAP ELECT 10UF 25V VS SMD Case CodeC	smd400elec146
3	1	C2	47uf	Panasonic-ECG	EEE-1HA470P	CAP ELECT 47UF 50V VS SMD	smd400elec
4	3	C3,C4,C5	0.1uf	Kemet	C0805C104K3RACTU	CAP .10UF 25V CERAMIC X7R 0805	SMD0805
5	2	C6,C7	0.22uf	Taiyo Yuden	UMK212B7224KG-T	CAP CER .22UF 50V X7R 0805	SMD0805
6	1	J1	CON3	Samtec Inc.	TSW-103-07-G-S	Conn, Header, 3pos,.1" Sgl, Gold	header3
7	2	J2,J3	CON2	On Shore Technology	ED120/2DS	TERM BLOCK 5.08MM Vert 2pos	tb-ED120-2
8	1	J4	CON4	On Shore Technology	ED120/4DS	TERM BLOCK 5.08MM Vert 4pos	tb-ED120-4
9	1	RN1	4.7K	CTS Corporation Resistor/ Electrocomponents	745C101472JPTR	RES ARRAY 4.7K OHM 10TRM BSS SMD	SMD10P_126X50
10	1	R1	30K	Rohm	MCR03EZPFX3002	RES 30.0K OHM 1/10W 1% 0603 SMD	SMD0603
11	1	R2	20K	Rohm	MCR03EZPJ203	RES 20K OHM 1/10W 5% 0603 SMD	SMD0603
12	1	R3	36.5K	Yageo	RC0603FR-0736K5L	RES 36.5K OHM 1/10W 1% 0603 SMD	SMD0603
13	2	R4,R5	0.27	Panasonic - ECG	ERJ-1TRQFR27U	RES .27 OHM 1W 1% 2512 SMD	SMD2512
14	1	R6	16.2K	Rohm	MCR03EZPFX1622	RES 16.2K OHM 1/10W 1% 0603 SMD	SMD0603
15	1	R7	4.7K	Rohm	MCR03EZPFX4701	RES 4.70K OHM 1/10W 1% 0603 SMD	SMD0603
16	1	SW1	SW DIP 7	C&K Components	SD07H1SB	SWITCH DIP SPST SEALED 7POS SMD	smd_dip14_3
17	1	U1	A4984SLP	Allegro MicroSystems	A4984SLP	DMOS Microstepping Driver with Translator	tssop25
18	1	PCB	85-0445-001			A4984LP-T, Printed Circuit Board, ROHS	
19	4	Bumpson	3m/ESM		SJ5003	Bumpon, Hemisphere, Black Place on bottom 4 corners of PC board	
20	2	W1, W2	GND BUS	any	any	20 AWG Solid Bus Wire, about 1"long Finished height of .25"-.4" from board	tp4
21	1	for J1	Shunt	Sullins Electronics	STC02SYAN	CONN,JUMPER SHORTING TIN	

Replacement for capacitors and resistors must be equivalent to listed component.

Revision History

Number	Date	Description
–	September 6, 2016	Initial release

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