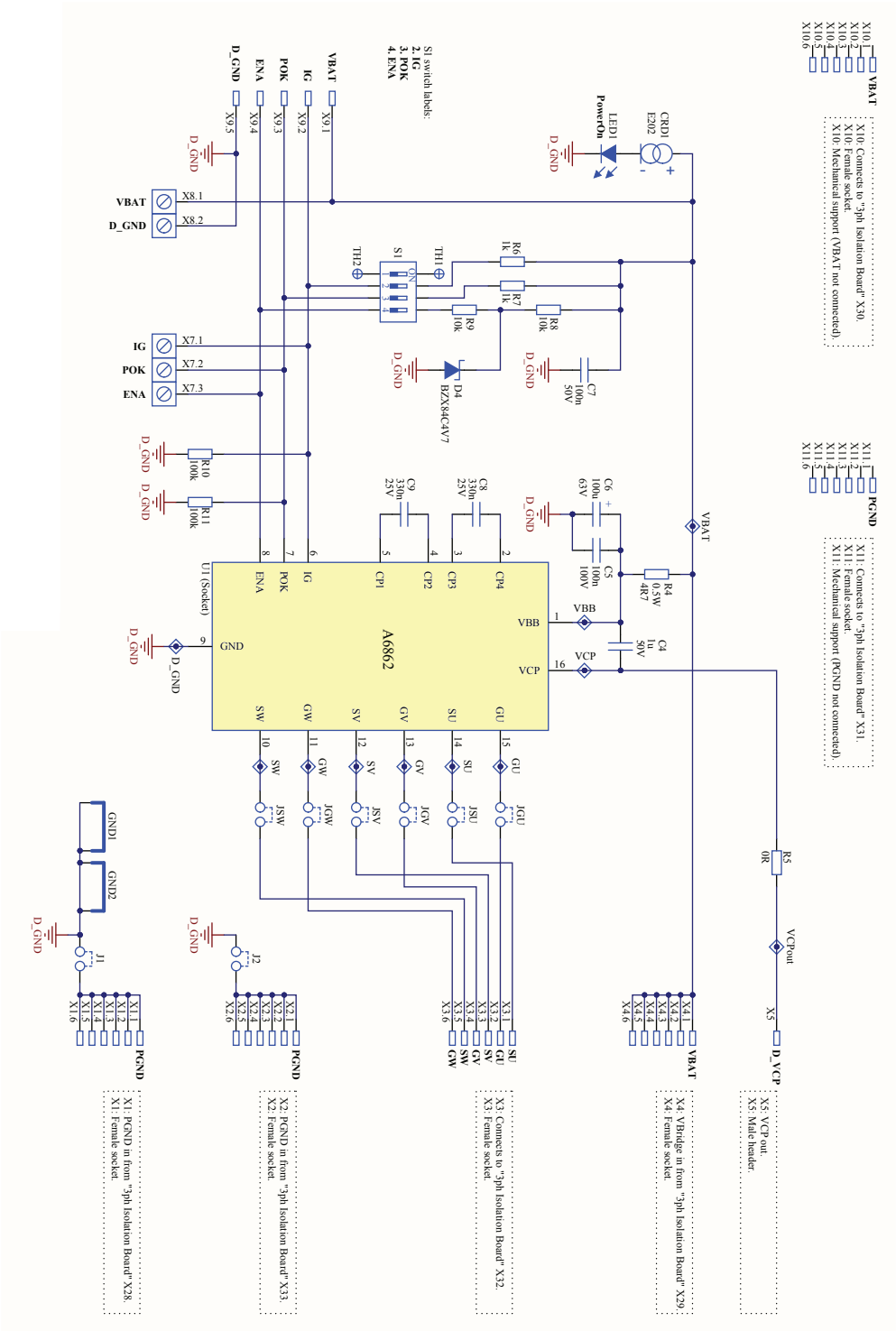
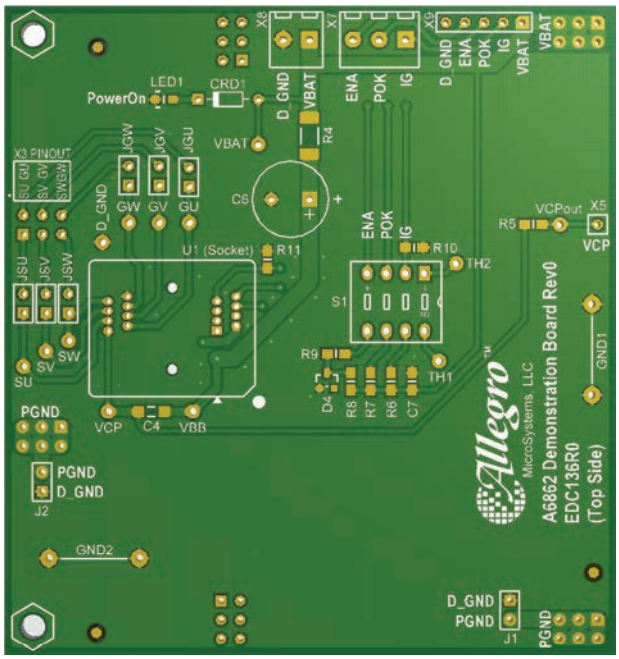
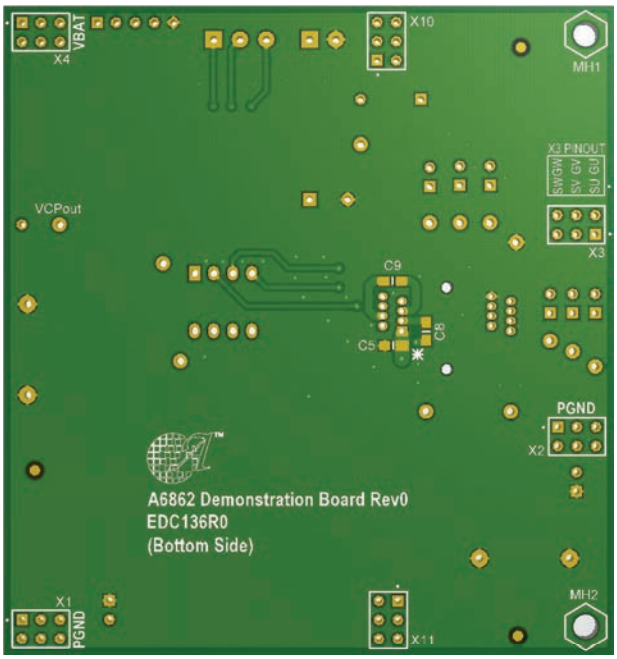
Demo Board Schematic/Layout

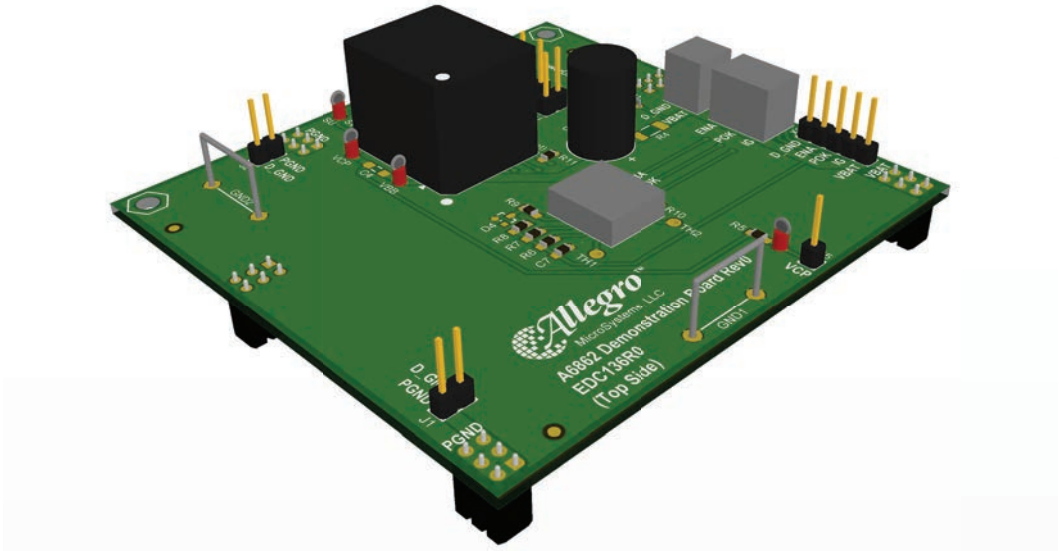
SCHEMATIC



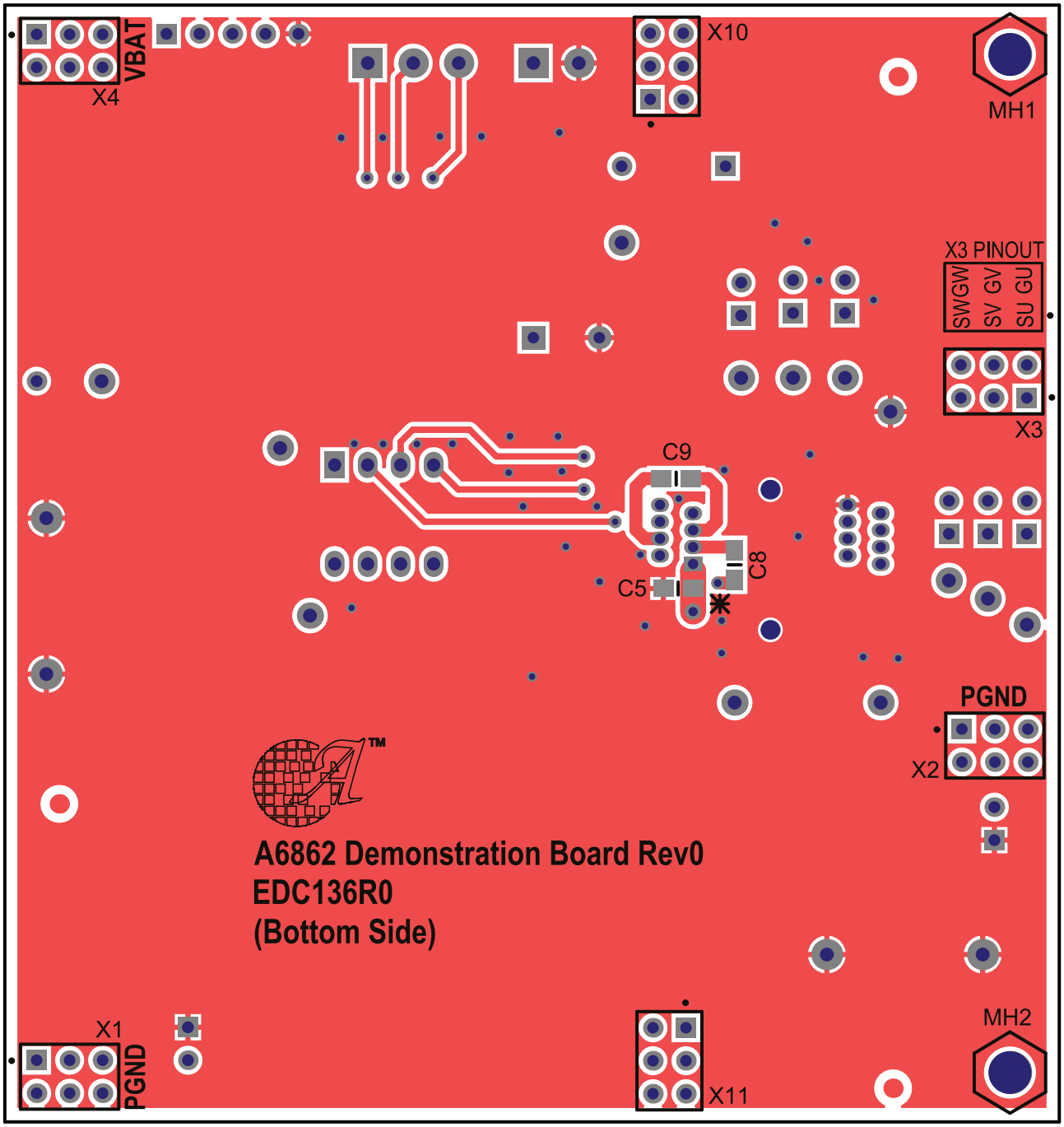
LAYOUT


X8
X7
X9
D_GND
ENA
POK
IG
VBAT
LED1
PowerOn
CRD1
R4
X3 PINOUT
JGW
JGV
JGU
GW
GV
GU
C6
U1 (Socket)
R11
R10
TH2
R5
VCPout
X5
VCP
S1
JSU
JSV
JSW
SW
SV
SU
R9
TH1
D4
R8
R7
R6
C7
GND1
PGND
VCP
C4
VBB
J2
GND2
J1
A6862 Demonstration Board Rev0
EDC136R0
(Top Side)
Allegro
MicroSystems, LLC


X4
VBAT
X10
MH1
VCPout
X3 PINOUT
SWGW
SV
GV
SU
GU
X3
C9
C5
C8
PGND
X2
A6862 Demonstration Board Rev0
EDC136R0
(Bottom Side)
X1
PGND
X11
MH2

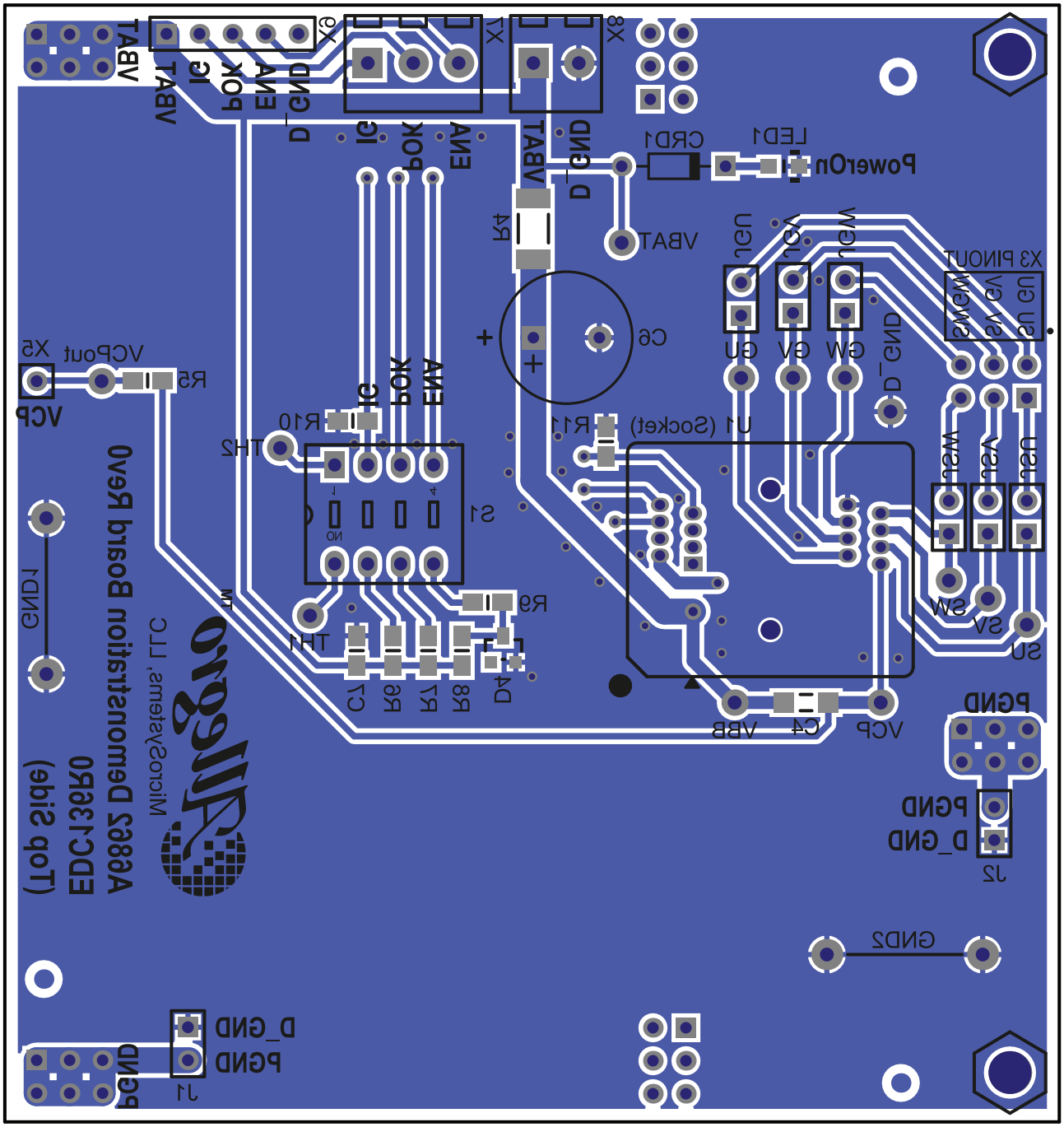

Allegro
MicroSystems, LLC
A6862 Demonstration Board Rev0
EDC136R0
(Top Side)
PGND
J1
GND1
VCP

Top Paste Top Silk Top Layer (L1)



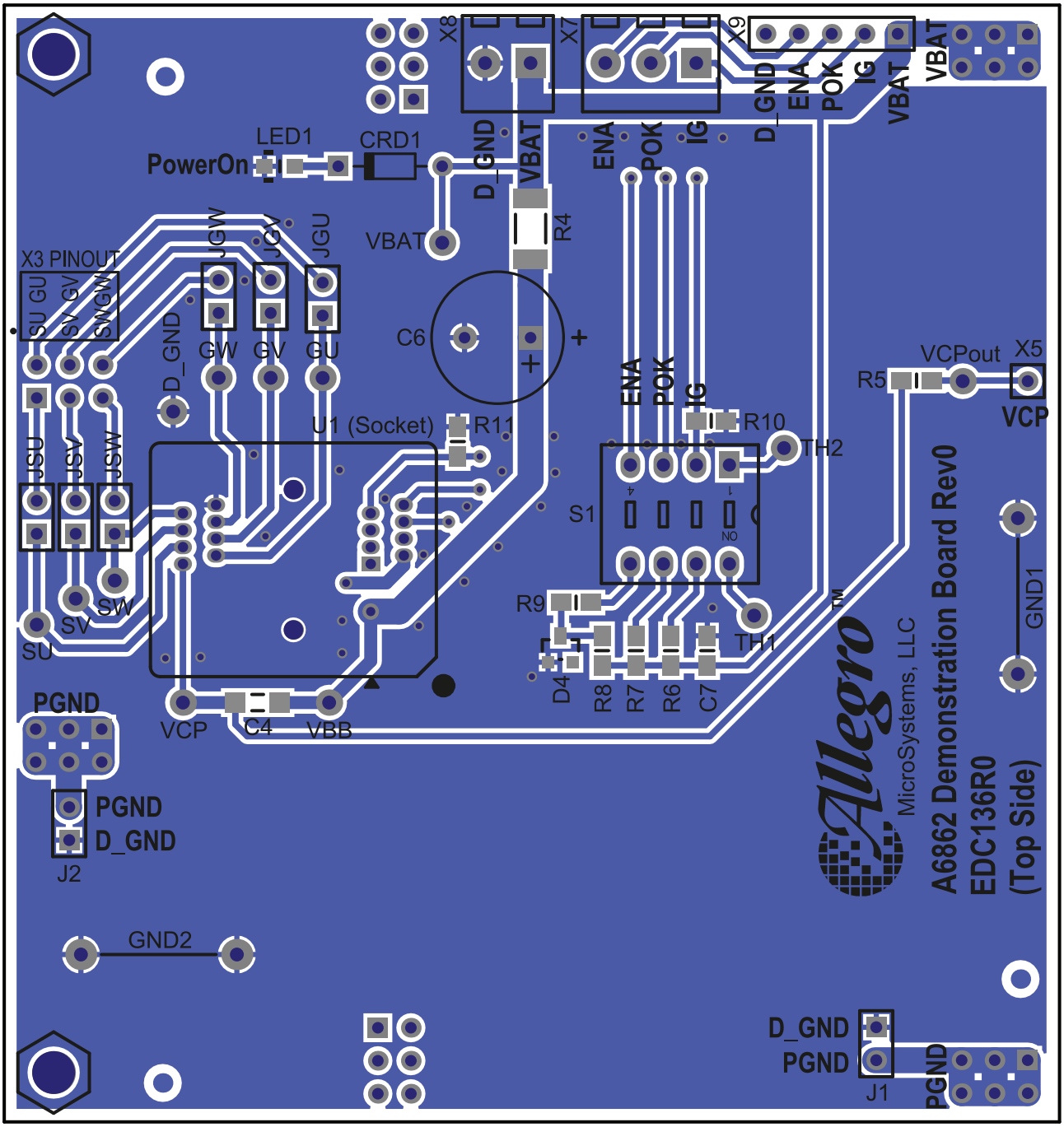
Top View Orientation Watermark

Btm Layer (L2) Btm Silk Btm Paste



Top View Orientation Watermark

Btm Layer (L2) Btm Silk Btm Paste



Top View Orientation Watermark

BILL OF MATERIALS

Designator	Value	Rating	Tol	Part Number	Footprint	Description	DNF	Qty	RS	Farnell
C4	1u	50V	X7R	\	SM : 1206	Capacitor : Ceramic Chip	\	1	723-6657	\
C5	100n	100V	X7R	\	SM : 0805	Capacitor : Ceramic Chip	\	1	698-3361	1740681
C6	100u	63V	20%	\	TH : 5mm Pitch, 10mm Dia	Capacitor : Alu Electrolytic Radial	\	1	440-6575	\
C7	100n	50V	X7R	\	SM : 0805	Capacitor : Ceramic Chip	\	1	264-4416	2070445
C8, C9	330n	25V	X7R	\	SM : 0805	Capacitor : Ceramic Chip	\	2	766-1059	1828951
CRD1	\	\	\	E202	TH : 1.8x3.9mm Body	Diode : Current Regulation, 100V, 2mA	\	1	RapidOnline 47-2602	
D4	\	\	\	BZX84C4V7	SM : SOT-23	Diode : Zener, 4.7V	\	1	759-8804	9844384
D_GND	\	\	\	\	TH : 1mm Dia Hole	Test Point : 1.4mm Round Loop, Black	\	1	262-2179	8731128
GND1, GND2	\	\	\	\	TH : 12mm Pitch, 20swg	Ground Bar : Tinned Copper Wire	\	2	355-063	\
GU, GV, GW, SU, SV, SW, VBAT, VBB, VCP, VCPout	\	\	\	\	TH : 1mm Dia Hole	Test Point : 1.4mm Round Loop, Red	\	10	262-2185	8731144
J1, J2, JGU, JGV, JGW, JSU, JSV, JSW	\	\	\	\	TH : SIL2, 2.54mm Pitch, 1x2	Jumper Header : Male 2-pin	\	8	251-8086	\
LED1	\	\	\	SML-211UT	SM : Proprietary 0805	LED : Chipled, 2pin, Red, 2mA	\	1	700-7907	1685056
MH1, MH2	\	\	\	\	TH : M3 (130mils) hole	Mount Hole : Standoff M3 8mm	\	2	325-738	\
PCB	\	\	\	EDC136R0	FR4, 2oz Cu, 2 Layer	PCB : A6862LP Demo Board	\	1	\	\
R4	4R7	0.5W	1%	\	SM : 2010	Resistor : Ceramic Chip	\	1	794-4301	2328153
R5	0R	0.125W	1%	\	SM : 0805	Resistor : Ceramic Chip	\	1	223-0146	2057661
R6, R7	1k	0.125W	1%	\	SM : 0805	Resistor : Ceramic Chip	\	2	223-0427	2078954
R8, R9	10k	0.125W	1%	\	SM : 0805	Resistor : Ceramic Chip	\	2	740-8975	2073607
R10, R11	100k	0.125W	1%	\	SM : 0805	Resistor : Ceramic Chip	\	2	223-0691	2074335
S1	\	\	\	\	TH : 2.54mm (100mils) Pitch	Switch : DIL, 4-way, Raised Actuator	\	1	690-3567	9479040
TH1, TH2	\	\	\	\	TH : 1mm Dia Hole	Test Hole	DNF	0	\	\
U1 (Device)	\	\	\	A6862LP	SM : eTSSOP16	Device : Allegro Motor Isolator	DNF	0	\	\
U1 (Socket)	\	\	\	OTS-16(28)-0.65-01	TH : TSSOP16 skt	Socket : Enplas (TSSOP16)	\	1	\	\
X1, X2, X3, X4, X10, X11	\	\	\	\	TH : 2.54mm Pitch, 3x2	Connector : 6-way Female Socket	\	6	765-5474	166-8290
X5	\	\	\	\	TH : 2.54mm Pitch, 1x1, SIL1	Connector : 1-way Header Unshrouded	\	1	670-5073	\
X7	\	\	\	\	TH : 3.5mm Pitch	Connector : Screw Terminal, 3-way	\	1	707-5480	\
X8	\	\	\	\	TH : 3.5mm Pitch	Connector : Screw Terminal, 2-way	\	1	707-5486	\
X9	\	\	\	\	TH : 2.54mm Pitch, 1x5, SIL5	Connector : 5-way Header Unshrouded	\	1	251-8632	\
[ESDBAG_6x8]	\	\	\	\	\	ESD Bag : 152x203mm (6x8")	\	1	287-7739	4921197
[JMP_SHORT_R]	\	\	\	\	\	Jumper Short/Shunt Link : Red	\	8	251-8531	2078263
[STANDOFF_NUT]	\	\	\	\	\	Mount : Standoff Nut, Plastic, M3	\	2	292-546	\

Note: "DNF" = "Do No Fit" (component not fitted).
Note: Top facing surface of assembled board, silk states "(Top Side)", is the bottom pcb gerber layer on the prints.
Note: Bottom facing surface of assembled board, silk states "(Bottom Side)", is the top pcb gerber layer on the prints.

http://uk.RS-online.com/
http://uk.FARNELL.com/

Revision History

Number	Date	Description
–	September 6, 2016	Initial release

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