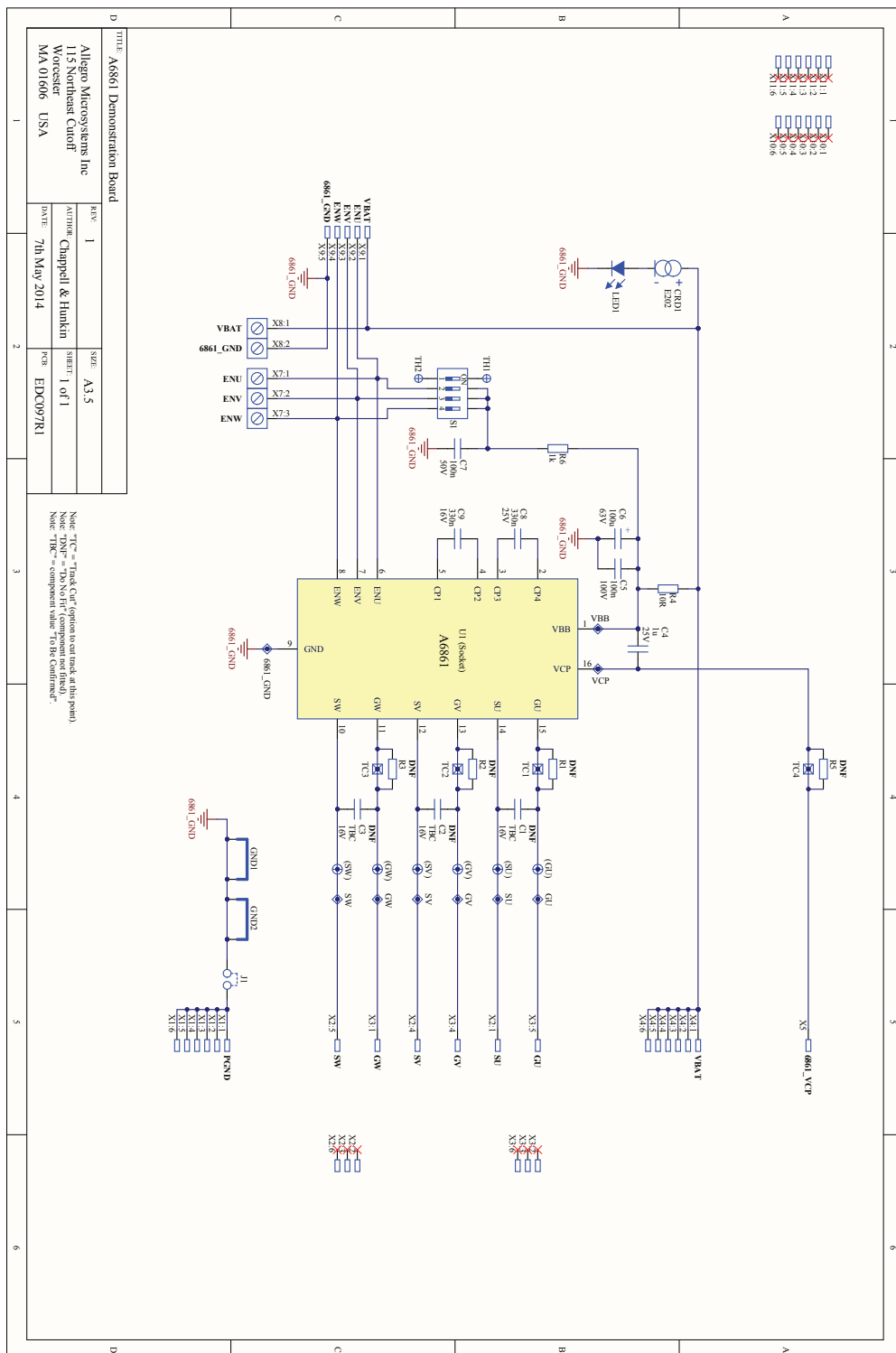
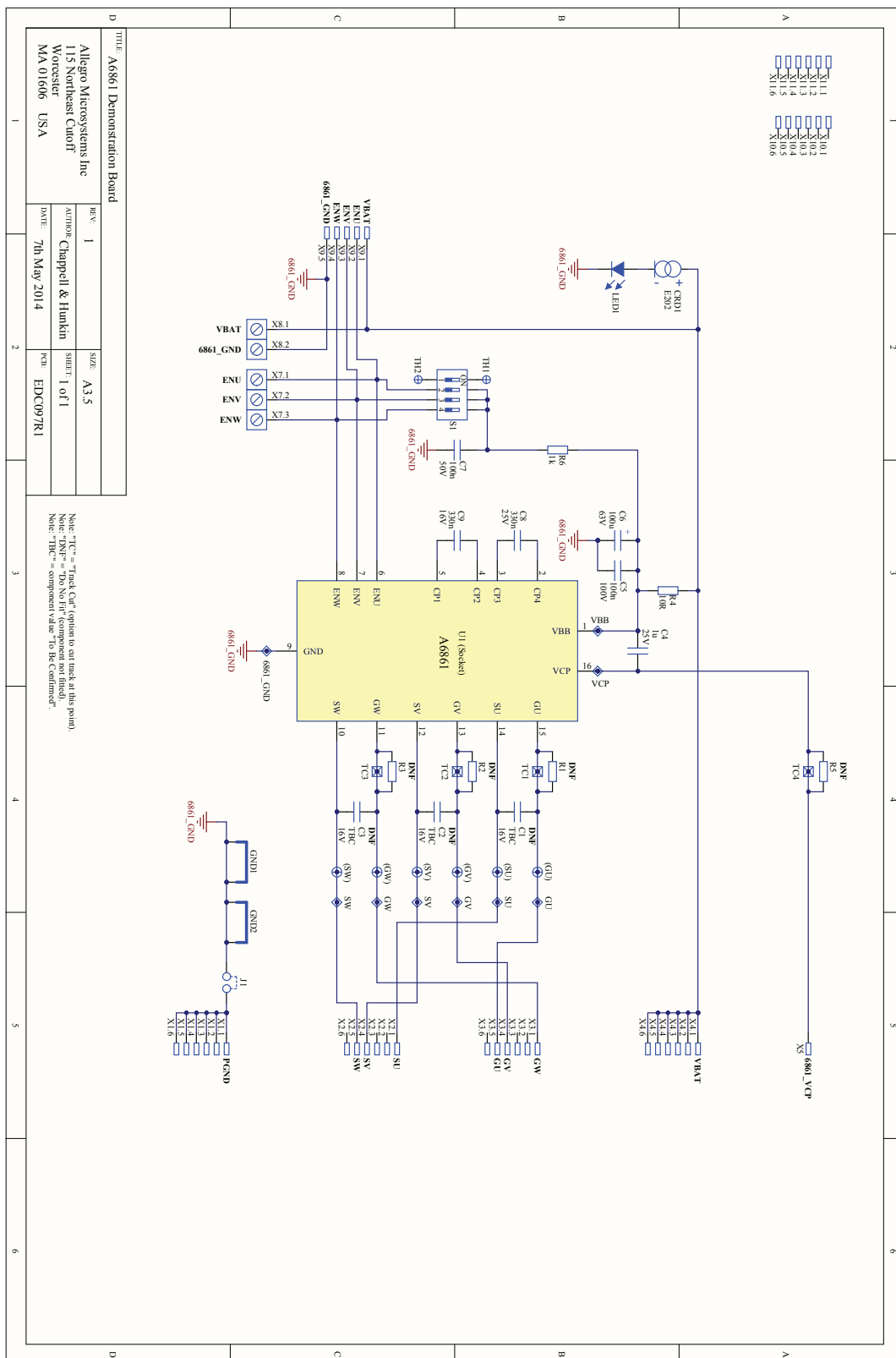


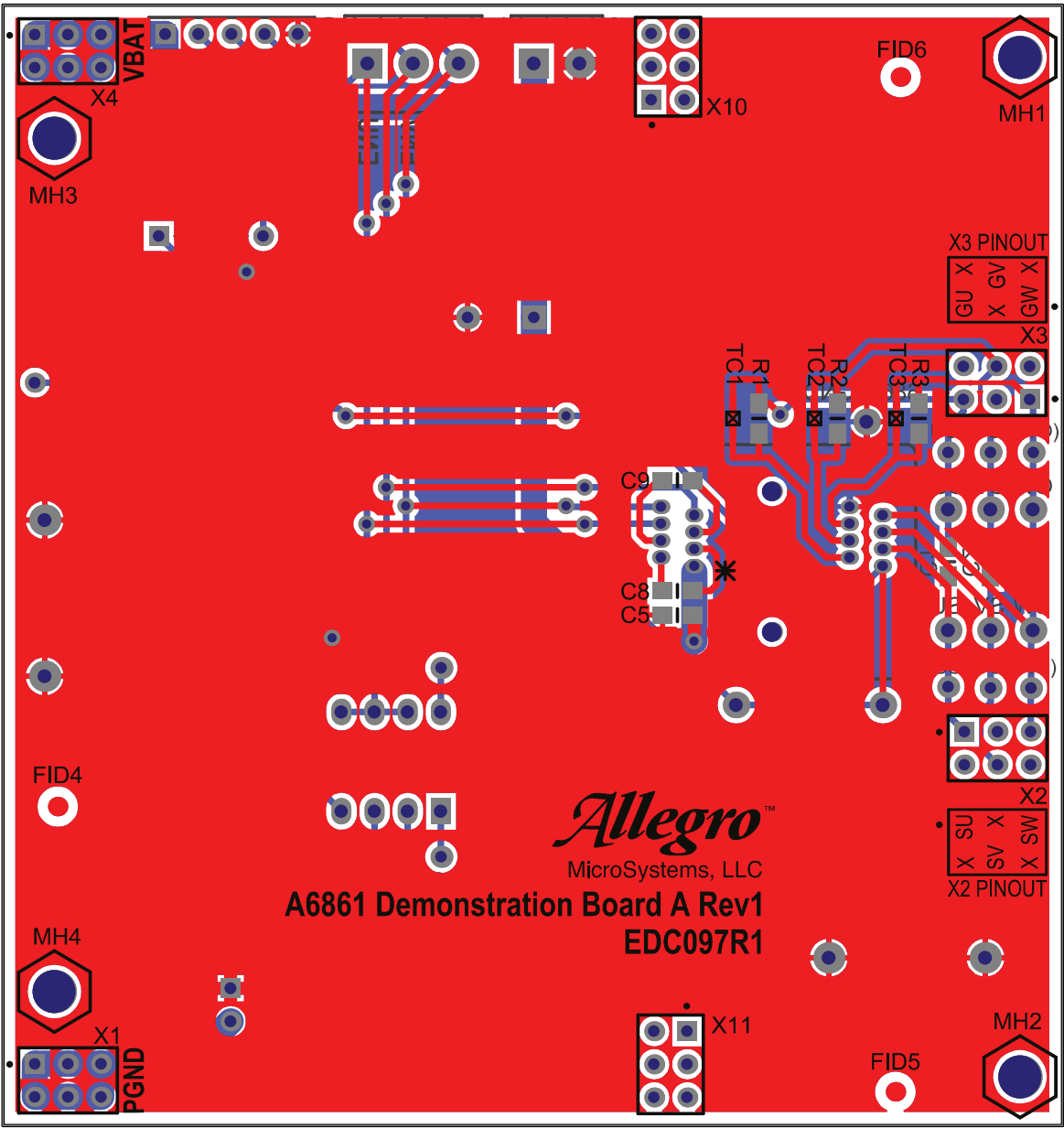
Demo Board Schematic/Layout

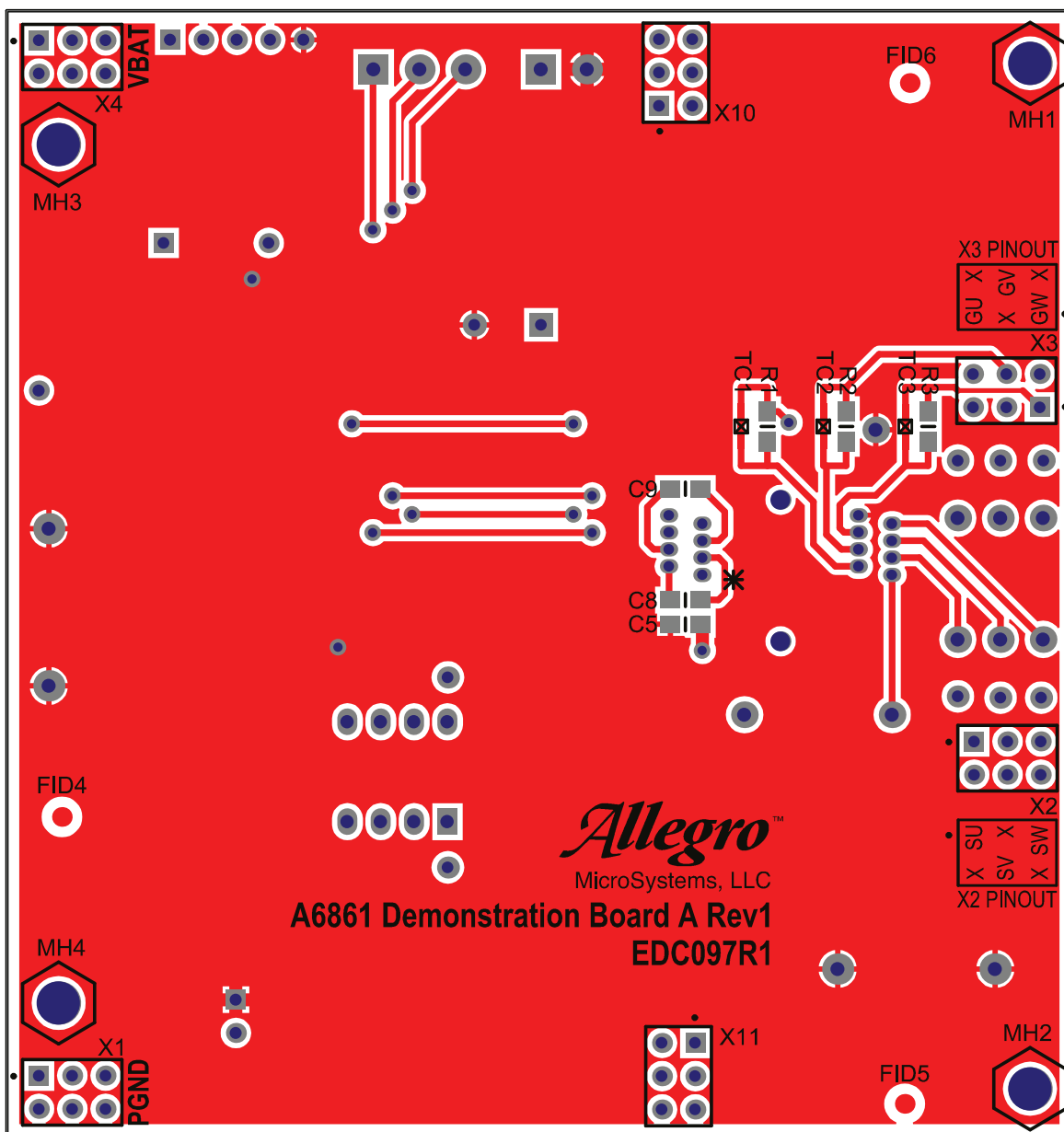
SCHEMATIC

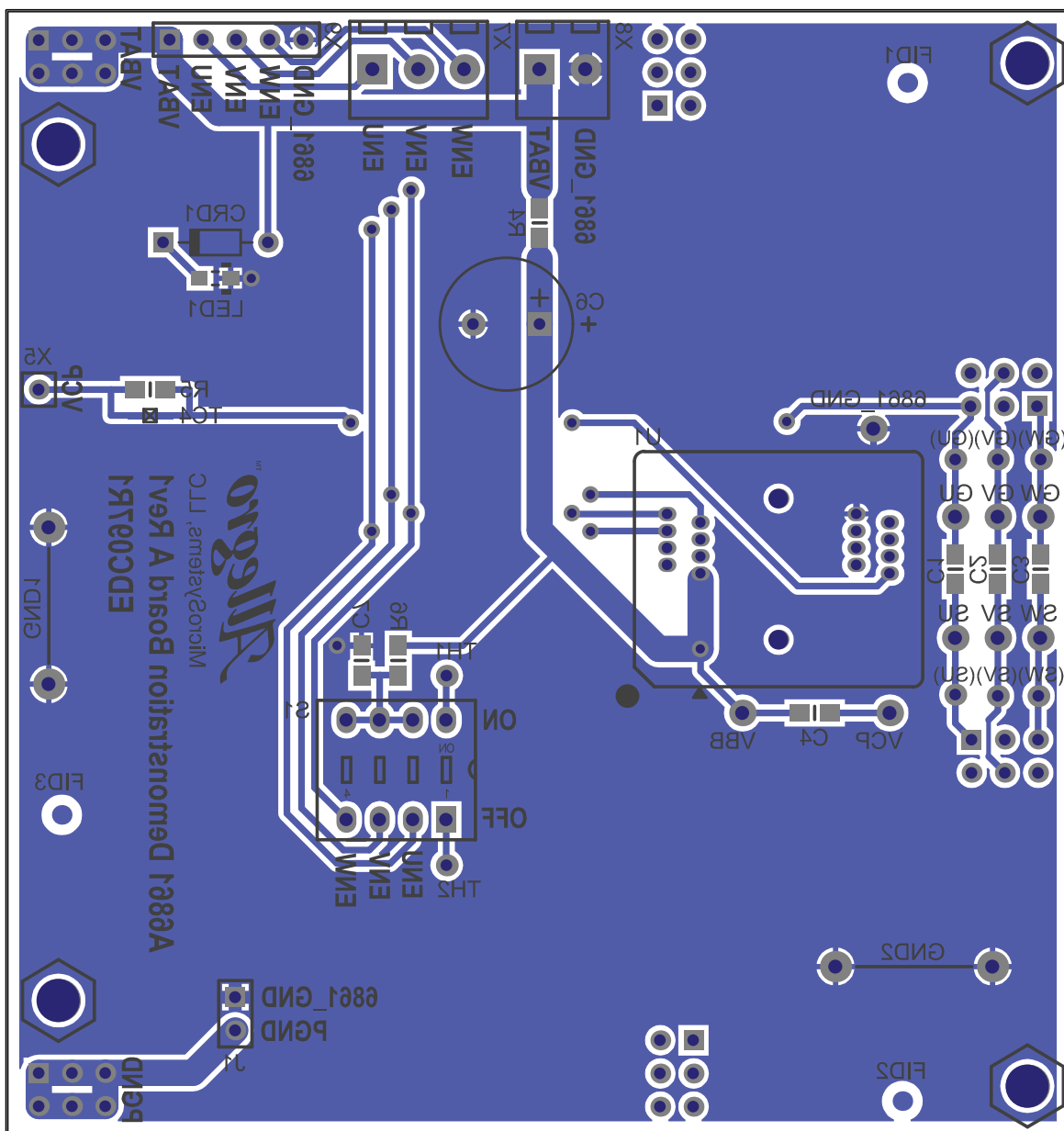


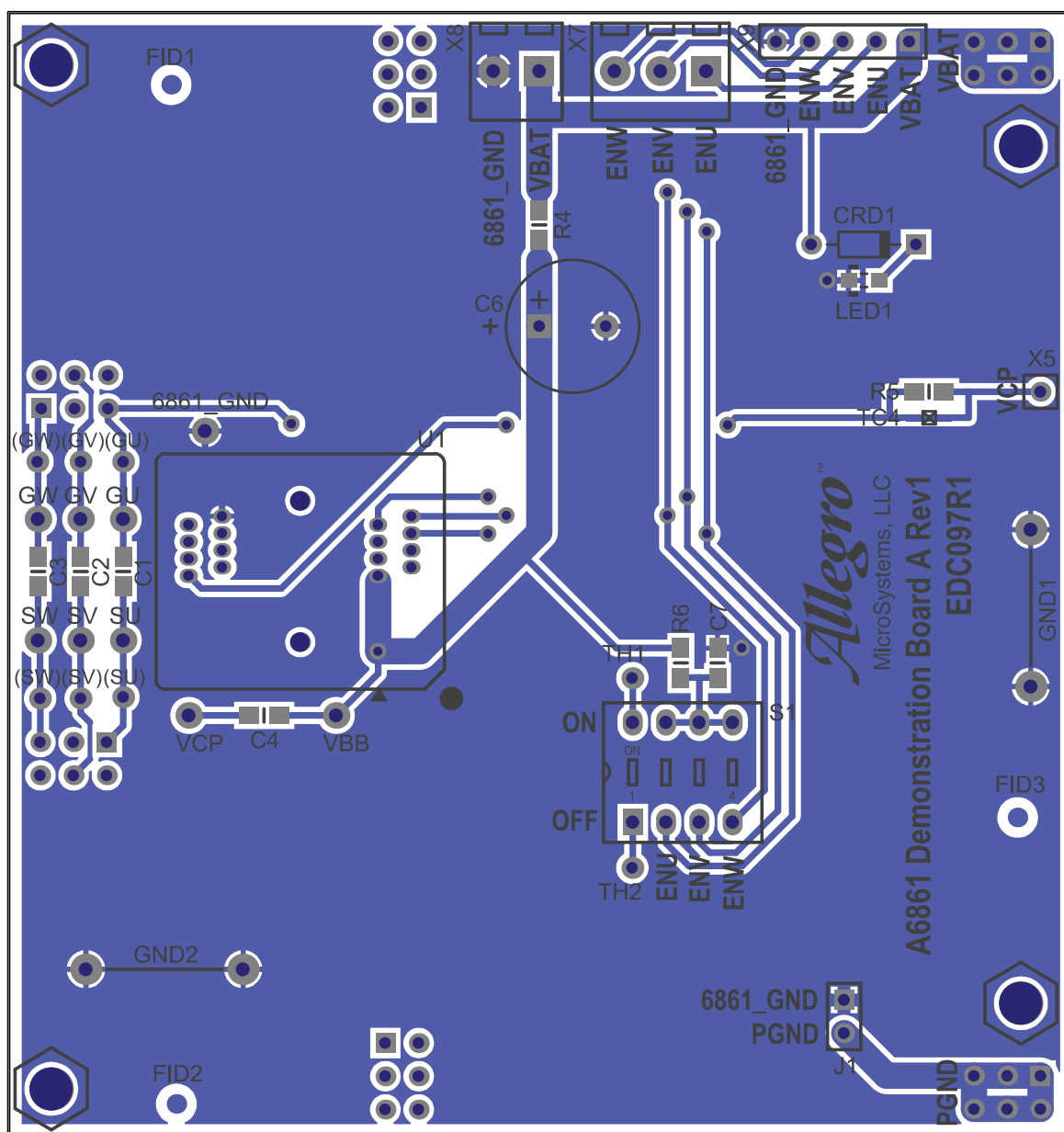


LAYOUT









BILL OF MATERIALS

Designator	Value	Min Rating	Tol	Part Number	Footprint	Description	DNF	Qty	RS	Farnell
6861_GND, GU, GV, GW, SU, SV, SW, VBB, VCP	\	\	\	\	TH : 1mm Dia Hole	Test Point : Test Terminal, 1mm, Red	\	9	262-2185	8731144
C1, C2, C3	(TBC)	16V	X7R	\	SM : 0805	Capacitor : Ceramic Chip	DNF	0	\	\
C4	1u	25V	X7R	\	SM : 0805	Capacitor : Ceramic Chip	\	1	723-6376	1845770
C5	100n	100V	X7R	\	SM : 0805	Capacitor : Ceramic Chip	\	1	698-3361	1740681
C6	100u	63V	20%	\	TH : 10mm Dia, 5mm Pitch	Capacitor : Alu Electrolytic Radial	\	1	440-6575	\
C7	100n	50V	X7R	\	SM : 0805	Capacitor : Ceramic Chip	\	1	264-4416	2070445
C8	330n	25V	X7R	\	SM : 0805	Capacitor : Ceramic Chip	\	2	766-1059	1828951
C9	330n	16V	X7R	\	SM : 0805	Capacitor : Ceramic Chip	\	2	766-1059	1828951
CRD1	\	\	\	E202	TH : 1.8x3.9mm Body	Diode : Current Regulator, 100V, 2mA	\	1	RapidOnline 47-2602	\
GND1, GND2	\	\	\	\	TH : 12mm Pitch, 20swg	Ground Bar : Tinned Copper Wire	\	2	355-063	\
J1	\	\	\	\	TH : SIL2, 2.54mm Pitch, 1x2	Jumper Header : Male 2-pin	\	1	251-8086	\
[JMP_SHORT_R]	\	\	\	\	\	Jumper Short/Shunt Link : Red	\	1	251-8531	150411
LED1	\	\	\	SML-211UT	SM : Proprietary 0805	LED : Chipled, 2pin, Red	\	1	700-7907	1685056
MH1, MH2	\	\	\	\	TH : M3 (130mils) hole	Mount Hole : Standoff M3, 8mm Body	\	2	325-738	\
[STANDOFF_NUT]	\	\	\	\	\	Mount : Standoff Nut, Plastic, M3	\	2	292-546	\
MH3, MH4	\	\	\	\	TH : M3 (130mils) hole	Mount Hole : Standoff M3	DNF	0	\	\
PCB	\	\	\	EDC097R1	FR4, 2oz Cu, 2 Layer	PCB : A6861 Demo Board A Rev1	\	1	\	\
R1, R2, R3, R5	(TBC)	0.125W	1%	\	SM : 0805	Resistor : Ceramic Chip	DNF	0	\	\
R4	10R	0.125W	1%	\	SM : 0805	Resistor : Ceramic Chip	\	1	223-0152	9237240
R6	1k	0.125W	1%	\	SM : 0805	Resistor : Ceramic Chip	\	1	223-0427	\
S1	\	\	\	\	TH : 2.54mm (100mils) Pitch	Switch : DIL, 4-way, Raised Actuator	\	1	690-3567	9479040
TC1, TC2, TC3, TC4	\	\	\	\	SM : Track	Track Cut : Copper Track & Manual Cut Marking	DNF	0	\	\
U1 (Socket)	\	\	\	OTS-16(28)-0.65-01	TH : TSSOP16 skt	Socket : Enplas (TSSOP16)	\	1	UK Supplier = Nikad	\
U1 (Device)	\	\	\	A6861	SM : eTSSOP16	Device : Allegro Motor Isolator	DNF	0	\	\
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	251-8632	\
X7	\	\	\	\	TH : 3.5mm Pitch	Screw Terminal : 3-way	\	1	707-5480	\
X8	\	\	\	\	TH : 3.5mm Pitch	Screw Terminal : 2-way	\	1	707-5486	\
X9	\	\	\	\	TH : 2.54mm Pitch, 1x5, SIL5	Connector : 5-way Header Unshrouded	\	1	251-8632	\
(GU), (GV), (GW), (SU), (SV), (SW)	\	\	\	\	TH : 0.9mm Dia Hole	Test Hole (Customer Can Make Connections)	DNF	0	\	\
[ESDBAG_6x10]	\	\	\	\	\	ESD Bag : 152x254mm (6x10")	\	1	182-8821	168488

Note: "DNF" = "Do No Fit" (component not fitted).

Note: "TBC" = component value "To Be Confirmed".

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

Revision History

Number	Date	Description
–	September 6, 2016	Initial release

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