

## A5947ET Evaluation Board

APEK,BOARD,DEMO,A5947ET

85-0871-000-BOM

Rev. 1

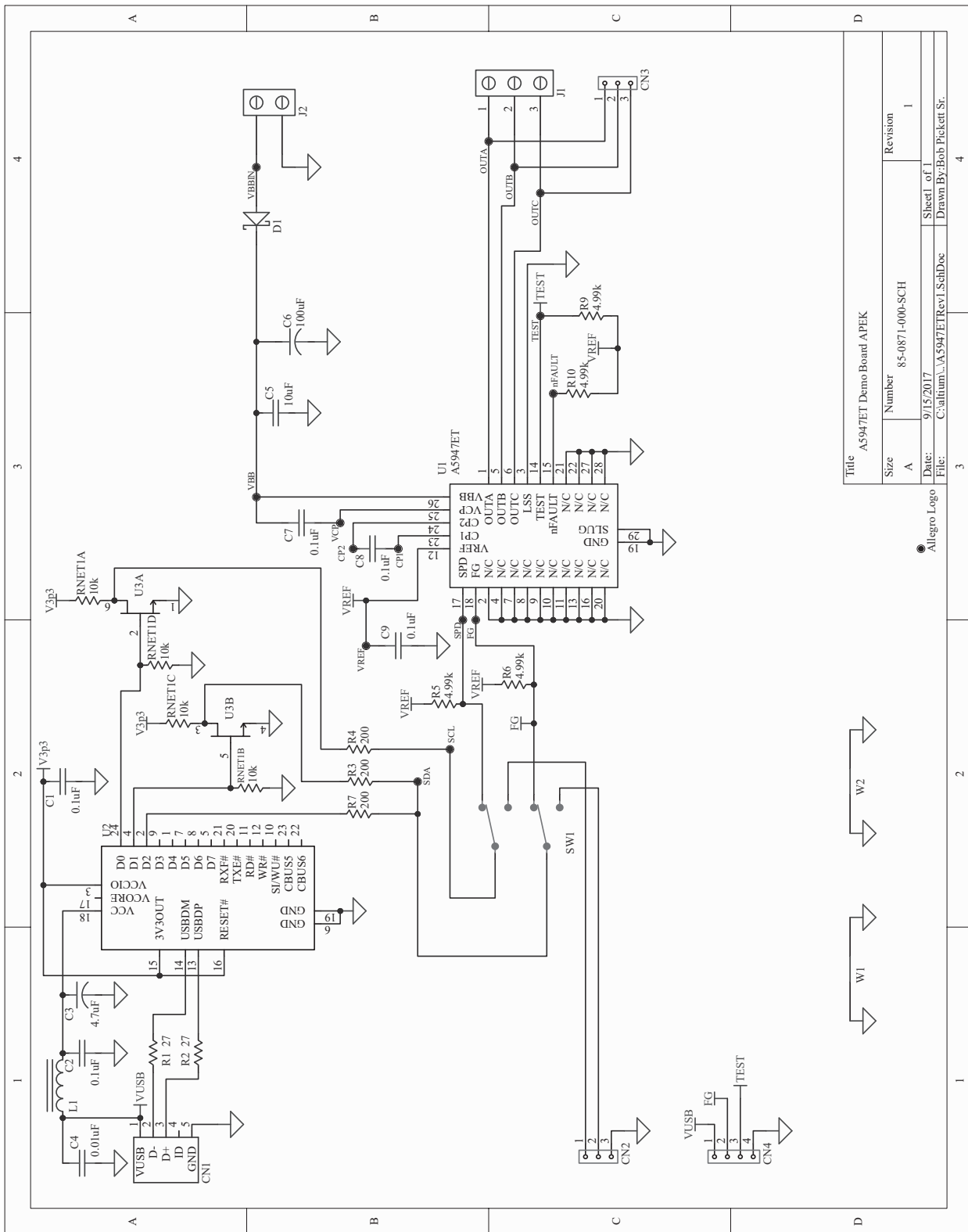
All Devices MUST be ROHS Compliant

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Bill of Materials

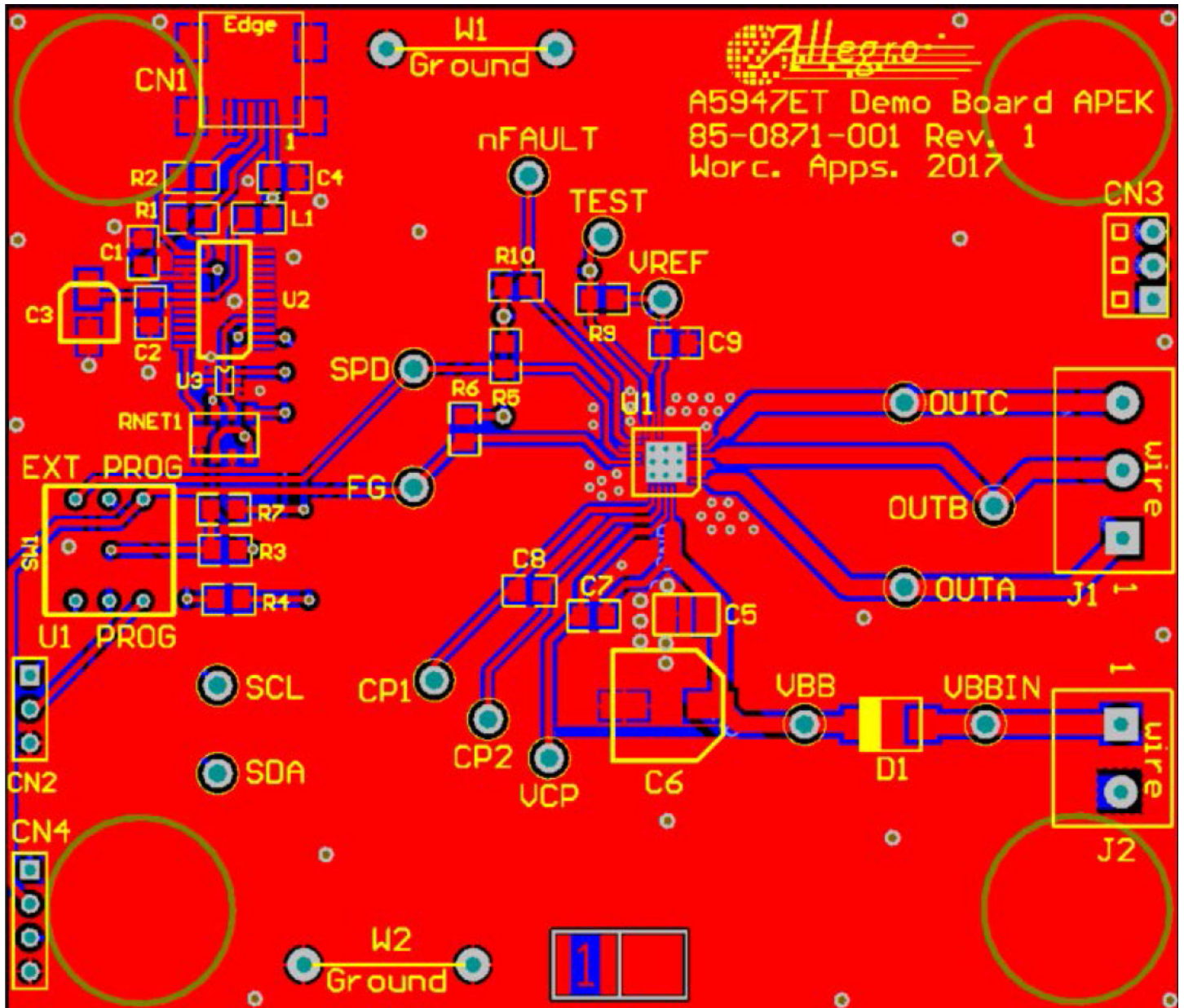
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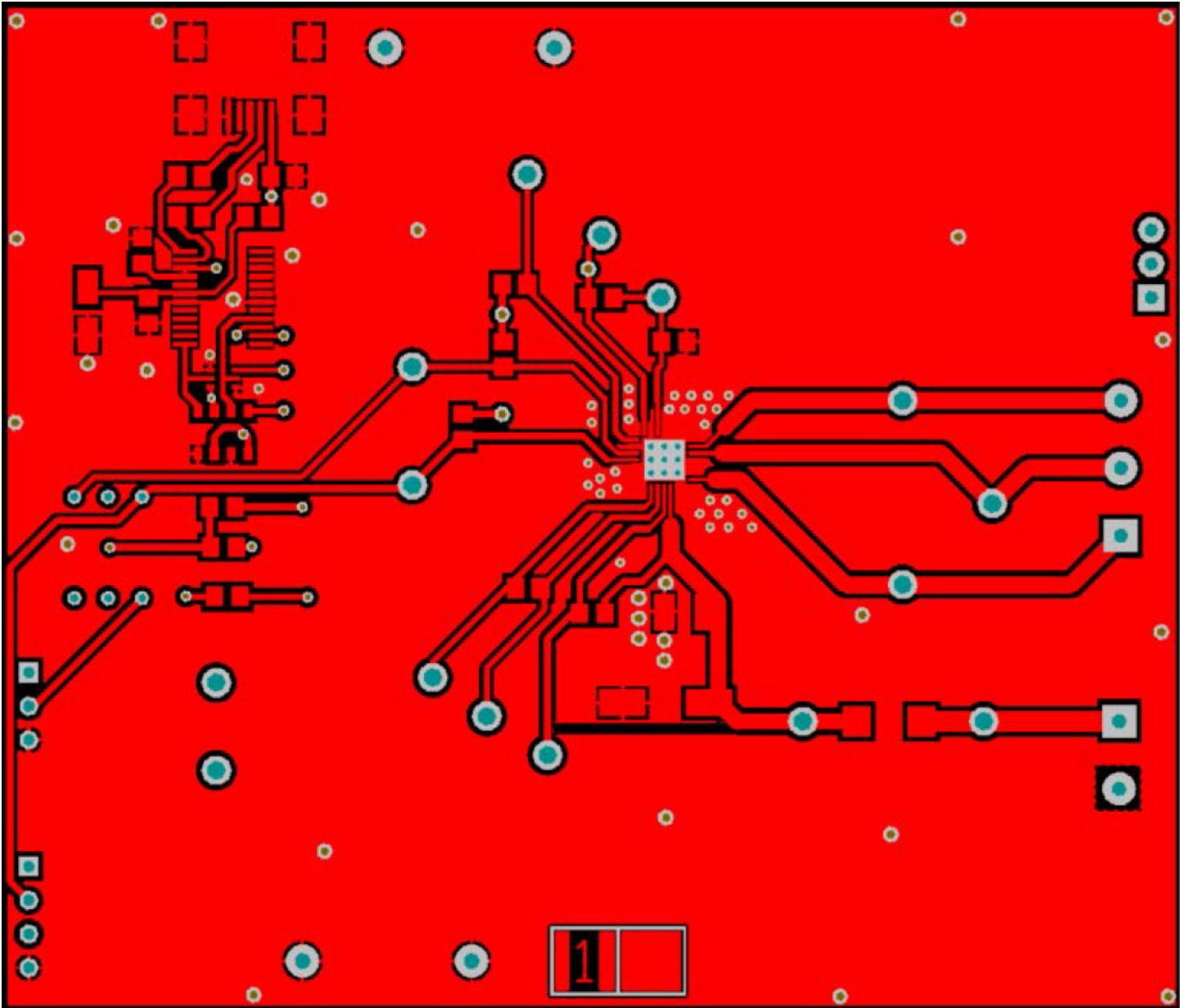
Item	Quantity	Designator	value	Description	PartType	Footprint
1	2	C1, C2	0.1uF	16V Capacitor	Murata GRM219R71C104KA01D; Digikey 490-1683-1-ND	0805
2	1	C3	4.7uF	35V Capacitor	Chemi-Con EMZA350ADA4R7MD61G; Digikey	UCC D61 Cap
3	1	C4	0.01uF	50V Capacitor	Murata GRM216R71H103KA01D; Digikey 490-1664-1-ND	0805
4	1	C5	10uF	50V Capacitor	Samsung CL32B106KBJNNWE; Digikey 1276-3388-1-ND	1210
5	1	C6	100uF	50V Capacitor	Chemi-Con EMZA500ADA101MHA0G; Digikey 565-2569-1-ND	UCC HA0
6	3	C7, C8, C9	0.1uF	25V Capacitor	Kemet C0805C104K3RACTU; Digikey 399-1168-1-ND	0805
7	1	CN1		USB Mini B Recepticle	EDAC 690-005-299-043; Digikey 151- 1206-1-ND	EDAC 690-005-299-043
8	7 Pins	CN2, CN4		Cut from 50-Pin Strip	Samtec TSW-150-07-T-S; Digikey SAM1035-50-ND	3-Pin 0.1" Connector, 4-Pin 0.1" Connector
9	1	CN3		Molex 3-Pin Verticle Recepticle	Molex 0022022035; Digikey WM3201- ND	Molex 3-Pin 4455-N Vertical2
10	15	CP1, CP2, FG, nFAULT, OUTA, OUTB, OUTC, SCL, SDA, SPD, TEST, VBB, VBBIN, VCP, VREF		Large Test Point	Keystone Electronics 5010; Digikey 36- 5010-ND	PAD 57 125 TP HB
11	1	D1		Schottky Diode	Diodes Inc. B240-13-F; Digikey B240- FDICT-ND	DO-214AA
12	4			Bumpion Foot	3M SJ-5303 (CLEAR); Digikey SJ5303- 7-ND	Bumpion Foot
13	1	J1		3-Pin Screw Down Connector	On Shore ED120/3DS; Digikey ED1610-ND	3-Pin screw down connector2
14	1	J2		2-Pin Screw Down Connector	On Shore Technology ED120/2DS; Digikey ED1609-ND	2-pin screw down connector
15	1	L1		Ferrite Bead	Laird MI0805K400R-10; Digikey 240- 2389-1-ND	0805
16	1			pcb	85-0871-001 Rev. 1	
17	2	R1, R2	27	1/8W Resistor	Vishay/Dale CRCW080527R0FKEA; Digikey 541-27.0CCT-ND	0805
18	3	R3, R4, R7	200	1/8W Resistor	Panasonic ERJ-6GEYJ201V; Digikey P200ACT-ND	0805
19	4	R5, R6, R9, R10	4.99k	1/8W Resistor	Panasonic ERJ-6ENF4991V; Digikey P4.99KCCT-ND	0805
20	1	RNET1	10k	4 Isolated Resistors	CTS 744C083103JP; Digikey 744C083103JPCT-ND	CTS 744 Series
21	1	SW1		Dual SPDT Switch	Grayhill 76STC02T; Digikey 76STC02T-ND	76STC02T
22	1	U1		Three Phase Sensorless Motor Driver	A5947ET	28-Pin ET
23	1	U2		USB 8-Bit FIFO IC	FTDI FT240XS-R; Digikey 768-1127-1- ND	SSOP-24 (150mil)
24	1	U3		Dual N-CH Fet's	Toshiba Semi SSM6N15AFU.LF; Digikey SSM6N15AFULFCT-ND	SOT-363
25	2	W1, W2		22 Gauge Buss Wire (300mils above pcb)		Scope Ground

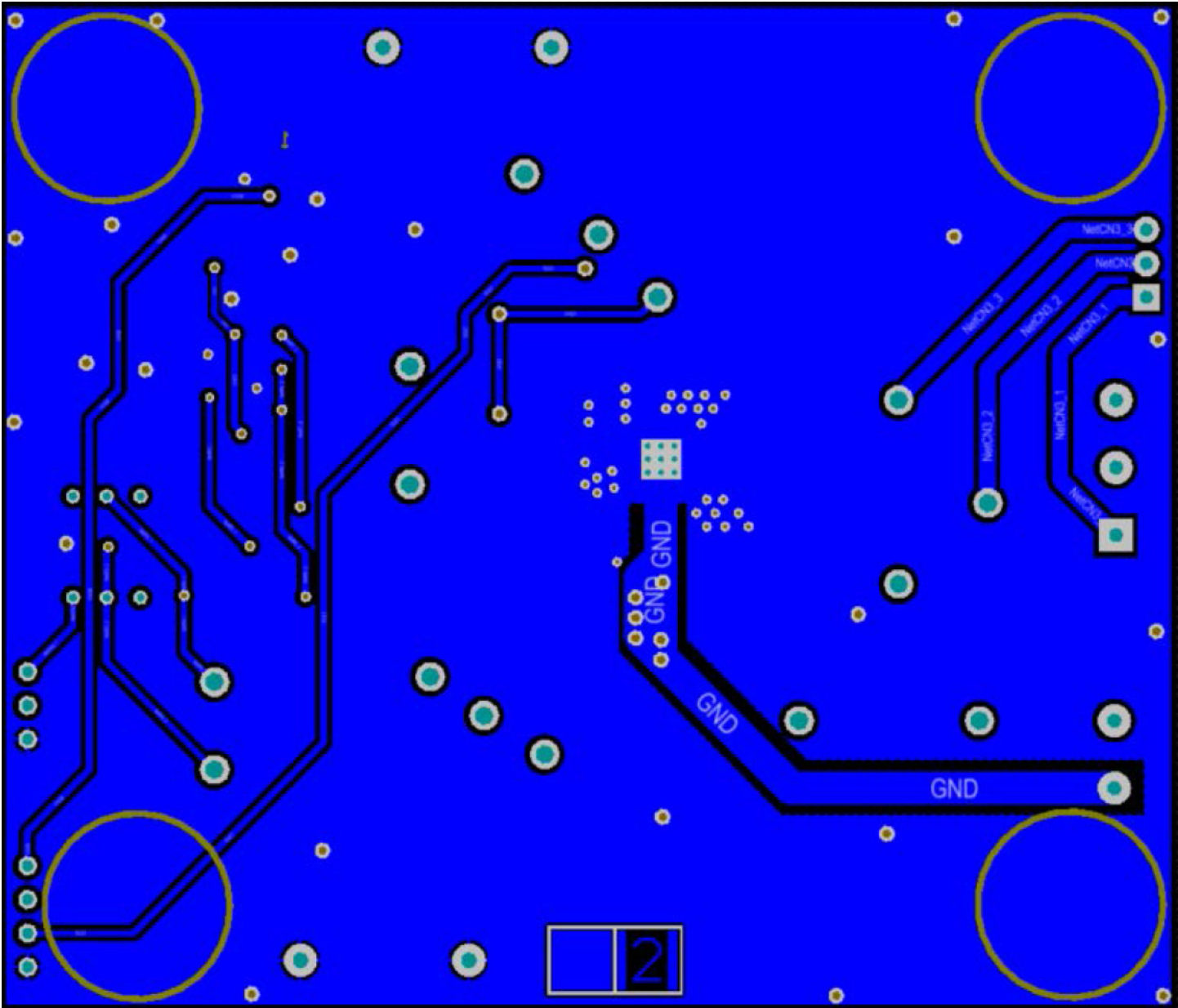


Title		AS947ET Demo Board APEK	
Size	Number	Revision	
A	85-0871-000-SCH	1	
Date:	9/15/2017	Sheet1 of 1	
File:	C:\attium\A5947ET\Rev1.SchDoc	Drawn By: Bob Pickett Sr.	

Allegro Logo







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## Revision History

Number	Date	Description
–	February 11, 2019	Initial Release
1	February 13, 2020	Minor editorial updates

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