

ANALOG DEVICES
MANUFACTURING BILL OF MATERIALS
SKU# = DC3017A
IC NO. = LTC3639EMSE#TRPBF
PCA BOM = 700-DC3017A-A_REV03
PCA ASSY DWG = 705-DC3017A-A_REV03
PCA SCHEMATIC = 710-DC3017A-A_REV03

Item Number	Quantity	Part Reference	Description	Manufacturer	Manufacturer PN	MFR PN Status	Value	BOM Notes
1	1	C5	CAP.,10uF,X7R,10V,10%,0805	AVX KEMET MURATA TDK	08052C106KAT2A C0805C106K8RACTU GRM218R71A106KE51L C2012X7R1A106K125AC	Y Y O Y	10uF	
2	52	C6,C7,C8,C9,CA1,CA2,CA3,CA4,CA5,CA6,CA7,CA8,CA9,CA10,CA11,CA12,CA13,CA14,CA15,CA16,CA17,CA18,CA19,CA20,CA21,CA22,CA23,CA24,CB1,CB2,CB3,CB4,CB5,CB6,CB7,CB8,CB9,CB10,CB11,CB12,CB13,CB14,CB15,CB16,CB17,CB18,CB19,CB20,CB21,CB22,CB23,CB24	CAP.,1000pF,X7R,2000V,10%,1808	KEMET TDK	C1808C102KGRACU C4520X7R3D102K130KA	Y Y	1000pF	
3	3	C11,C12,C28	CAP.,1uF,X5R,16V,10%,0603	AVX KEMET TAIYO YUDEN MURATA	0603YD105KAT2A C0603C105K4PACTU EMK107B1105KA-T GRM188R61C105KA93D	Y Y S O	1uF	
4	0	C13,C30	CAP., OPTION, 0603				OPT	NO STUFF
5	2	C15,C18	CAP.,1uF,X7R,100V,10%,1210	AVX TDK	12101C105KAT2A C3225X7R2A105K200AA	Y Y	1uF	
6	1	C16	CAP.,0.047uF,X7R,16V,10%,0603	AVX KEMET NIC	0603YC473KAT2A C0603C473K4RACTU NMC0603X7R473K16TRPF	Y Y Y	0.047uF	
7	1	C17	CAP.,22uF,X5R,6.3V,20%,1210	AVX TAIYO YUDEN TAIYO YUDEN	12106D226MAT2A JMK325BJ226MY-T JMK325BJ226MM-T	Y Y O	22uF	
8	2	C23,C29	CAP.,0.1uF,X7R,10V,10%,0603	AVX KEMET NIC WURTH ELEKTRONIK	0603ZC104KAT2A C0603C104K8RACTU NMC0603X7R104K10TRPF 885012206020	Y Y Y Y	0.1uF	
9	4	C24,C25,C26,C27	CAP.,47uF,ALUM,100V,20%,12.5x13.5mm,H13,RADIAL,SMD,AEC-Q200	PANASONIC	EEVFK2A470Q	Y	47uF	
10	2	C32,C33	CAP.,0.01uF,X7R,2000V,10%,2220	KEMET	C2220C103KGRACU	Y	0.01uF	
11	96	CW1,CW2,CW3,CW4,CW5,CW6,CW7,CW8,CW9,CW10,CW11,CW12,CW13,CW14,CW15,CW16,CW17,CW18,CW19,CW20,CW21,CW22,CW23,CW24,CX1,CX2,CX3,CX4,CX5,CX6,CX7,CX8,CX9,CX10,CX11,CX12,CX13,CX14,CX15,CX16,CX17,CX18,CX19,CX20,CX21,CX22,CX23,CX24,CY1,CY2,CY3,CY4,CY5,CY6,CY7,CY8,CY9,CY10,CY11,CY12,CY13,CY14,CY15,CY16,CY17,CY18,CY19,CY20,CY21,CY22,CY23,CY24,CZ1,CZ2,CZ3,CZ4,CZ5,CZ6,CZ7,CZ8,CZ9,CZ10,CZ11,CZ12,CZ13,CZ14,CZ15,CZ16,CZ17,CZ18,CZ19,CZ20,CZ21,CZ22,CZ23,CZ24	CAP.,0.01uF,X7R,100V,10%,0805	AVX KEMET MURATA SAMSUNG	08051C103KAT2A C0805C103K1RACTU GRM218R72A103KA01L CL21B103KCANNNC	Y Y S Y	0.01uF	
12	1	D31	DIODE,ZENER,4.7V,500mW,SOD-123	DIODES INC.	DDZ9688-7	Y	DDZ9688-7	
13	2	D38,D42	DIODE,TVS,UNI-DIR,58V,5kW,DO-214AB (SMC J-Bend)	BOURNS	5.05MDJ58A	Y	5.05MDJ58A	
14	3	D39,D40,D41	DIODE,SCHOTTKY,100V,20A,TO-277-3	ON SEMICONDUCTOR	F5V20100V	Y	F5V20100V	
15	24	DA1,DA2,DA3,DA4,DA5,DA6,DA7,DA8,DA9,DA10,DA11,DA12,DA13,DA14,DA15,DA16,DA17,DA18,DA19,DA20,DA21,DA22,DA23,DA24	LED,BLUE,WATER CLEAR,0603	Würth Elektronik	155060BS75300	Y	BLUE	
16	24	DB1,DB2,DB3,DB4,DB5,DB6,DB7,DB8,DB9,DB10,DB11,DB12,DB13,DB14,DB15,DB16,DB17,DB18,DB19,DB20,DB21,DB22,DB23,DB24	LED,GREEN,DIFFUSED,0603	ROHM	SML-E12P8WT86	Y	GREEN	
17	10	E3,E4,E6,E7,E10,E56,E96,E97,E101,E102	TEST POINT,TURRET,0.064" MTG. HOLE,PCB 0.125" THK	MILL-MAX	2308-4-00-80-00-00-07-0	Y	TEST POINT	
18	13	E18,E19,E20,E23,E24,E25,E26,E69,E70,E95,E98,E99,E100	TEST POINT,TURRET,0.094" MTG. HOLE,PCB 0.062" THK	MILL-MAX	2501-2-00-80-00-00-07-0	Y	TEST POINT	

		E32,E33,E34,E35,E36,E37, E38,E39,E40,E41,E42,E43, E57,E58,E59,E60,E61,E62, E63,E64,E65,E66,E67,E68, E71,E72,E73,E74,E75,E76, E77,E78,E79,E80,E81,E82, E83,E84,E85,E86,E87,E88, E89,E90,E91,E92,E93,E94	TEST POINT,SILVER PLATE,PHOSPHOR BRONZE, 3.81x2.03mm, 2.29mm H,SMT	KEYSTONE	5019	Y	TEST POINT	
19	48							
20	2	F5,F6	FUSE,CER.,SINGLFUSE,50A,60VDC,J-LEAD,2-SMD,2923	BOURNS	SF-2923HC50C-2	Y	FUSE,CER., SINGLFUSE	
21	2	J1,J2	CONN.,HDR,SHROUDED,PLUG,MALE,2x7,2mm,VERT,ST,THT,KEYE D	MOLEX	87831-1420	Y	HDR,SHROUDED	
22	2	J3,J4	CONN.,MOD,STACKIACK,12PORTS(2x6),8P8C,R/A,THT,RJ45,ETHE RNET,SHIELDED,50u" Au	STEWART CONN. / BEL BEL FUSE INC.	S573100-046F S573100-046F	Y Y	MOD	
23	0	J5	CONN.,HDR,SHROUDED,MALE,2x10,2.54mm,R/A,THT	WURTH ELEKTRONIK	61202021721	Y	HDR,SHROUDED	NO STUFF
24	0	J6	CONN.,HDR,SHROUDED,MALE,2x15,2.54mm,VERT,ST,THT	SAMTEC	TSW-115-07-L-D	Y	HDR,SHROUDED	NO STUFF
25	2	J7,J9	LUG,RING,1/4" STUD,CRIMP,4 AWG,1.40" L,NON-INSULATED	PANDUIT	P4-14R-T	Y	LUG,RING	
26	2	J8,J10	CONN.,BANANA JACK,FEMALE,THT,NON- INSULATED,SWAGE,0.218"	KEYSTONE	575-4	Y	BANANA JACK	
27	2	J11,J16	CONN.,HDR,SOCKET STRIP,RCPT,FEMALE,2x8,2mm,VERT,ST,SMT,GOLD	SAMTEC	TLE-108-01-G-DV-A	Y	HDR,SOCKET STRIP	
28	1	J12	CONN.,HDR,SOCKET STRIP,RCPT,FEMALE,2x6,2mm,VERT,ST,SMT,GOLD	SAMTEC	TLE-106-01-G-DV-A	Y	HDR,SOCKET STRIP	
29	3	J13,J14,J15	CONN.,HDR,SOCKET STRIP,RCPT,FEMALE,2x12,2mm,VERT,ST,SMT,GOLD	SAMTEC	TLE-112-01-G-DV-A	Y	HDR,SOCKET STRIP	
30	1	JP1	CONN.,HDR,MALE,2x8,2mm,VERT,ST,THT,GOLD	SAMTEC	TMM-108-03-G-D	Y	HDR	NO STUFF JP17-JP19
31	5	JP14,JP16,JP20,JP21,JP22	CONN.,HDR,MALE,1x3,2mm,VERT,ST,THT	Würth Elektronik	62000311121	Y	HDR	NO STUFF JP15
32	1	L1	IND.,150uH,PWR,SHIELDED,20%,730mA,535mOHMS,6.08x6.08mm, AEC-Q200	COILCRAFT	LP56235-154MRC LP56235-154MRB	Y Y	150uH	
33	1	LB1	LABEL SPEC, DEMO BOARD SERIAL NUMBER	BRADY	THT-96-717-10	Y	LABEL	
34	1	LED13	LED,GREEN,CLEAR,3020 (1208)	ROHM	SML-012P8TT86	Y	GREEN	
35	1	LED14	LED,RED,CLEAR,3020 (1208)	ROHM	SML-012V8TT86	Y	RED	
36	1	LED29	LED,ORANGE,CLEAR,3020 (1208)	ROHM	SML-012D8TT86	Y	ORANGE	
37	1	MOV1	RES.,VARISTOR,385VAC/505VDC,6kA,RADIAL,THT,DISC,14mm,EP OXY,METAL-OXIDE	LITTELFUSE	V14E385P	Y	VARISTOR, 385VAC/505VDC	
38	9	MP1,MP2,MP3,MP4,MP5, MP6,MP7,MP8,MP9	STANDOFF,NYLON,SNAP-ON,0.75" (19.1mm)	WURTH ELEKTRONIK	702937000	Y	STANDOFF	
39	1	PCB1	PCB, DC3017A-A	ADI APPROVED SUPPLIER	600-DC3017A-A	Y	PCB, DC3017A-A	REV03
40	3	PK1,PK2,PK3	CONN.,POLARIZING KEY,PLUG,2.54mm PITCH,3.18mm DIM,ST,NATURAL THERMOPLASTIC	SAMTEC	PK-01-07	Y	POLARIZING KEY	
41	48	QD43,QD48,QL1,QL2,QL3, QL4,QL5,QL6,QL7,QL8,QL 9,QL10,QL11,QL12,QL13, QL14,QL15,QL16,QL17,QL 18,QL19,QL20,QL21,QL22, QL23,QL24,QL25,QL26,QL 27,QL28,QL29,QL30,QL31, QL32,QL33,QL34,QL35,QL 36,QL37,QL38,QL39,QL40, QL41,QL42,QL44,QL45,QL 46,QL47	XSTR.,MOSFET,P-CH,100V,75mA,SOT-23-3	DIODES INC.	ZVP3310FTA	Y	ZVP3310F	
42	2	R1,R2	RES.,470 OHMS,5%,1/8W,0805,AEC-Q200	NIC PANASONIC VISHAY	NRC10J471TRF ERJ6GEYJ471V CRCW0805470RJNEA	Y Y Y	470	
43	0	R4,R16,R17,R28,R29,R47, R48,R51,R52,R53,R70,R73 ,R91,R92,RM1,RM9,RM10 ,RM11,RM12,RM13,RM14 ,RM15,RM16,RM17,RM18 ,RM19,RM20,RM21,RM22 ,RM23,RM24,RM25,RM26 ,RM27,RM28,RM29,RM30 ,RM31,RM32	RES., OPTION, 0603	KOA SPEER ROHM VISHAY	RK73B1JTTD205J MCR03EZPJ205 CRCW06032M00JNEA	Y Y Y	2M	NO STUFF
44	1	R24	RES.,2M OHMS,5%,1/10W,0603,AEC-Q200	NIC VISHAY	NRC06F2373TRF CRCW0603237KFEA	Y Y	237k	
45	1	R26	RES.,237k OHMS,1%,1/10W,0603	NIC VISHAY	NRC06F2373TRF CRCW0603237KFEA	Y Y	237k	

46	99	100	R27,R54,R71,RZZ1,RZZ2,RZZ3,RZZ4,RZZ5,RZZ6,RZZ7,RZZ8,RZZ9,RZZ10,RZZ11,RZZ12,RZZ13,RZZ14,RZZ15,RZZ16,RZZ17,RZZ18,RZZ19,RZZ20,RZZ21,RZZ22,RZZ23,RZZ24,RZZ25,RZZ26,RZZ27,RZZ28,RZZ29,RZZ30,RZZ31,RZZ32,RZZ33,RZZ34,RZZ35,RZZ36,RZZ37,RZZ38,RZZ39,RZZ40,RZZ45,RZZ46,RZZ47,RZZ48,RZZ49,RZZ50,RZZ51,RZZ52,RZZ53,RZZ54,RZZ55,RZZ56,RZZ57,RZZ58,RZZ59,RZZ60,RZZ61,RZZ62,RZZ63,RZZ64,RZZ65,RZZ66,RZZ67,RZZ68,RZZ69,RZZ70,RZZ71,RZZ72,RZZ73,RZZ74,RZZ75,RZZ76,RZZ77,RZZ78,RZZ79,RZZ80,RZZ81,RZZ82,RZZ83,RZZ84,RZZ85,RZZ86,RZZ87,RZZ88,RZZ89,RZZ90,RZZ91,RZZ92,RZZ93,RZZ94,RZZ95,RZZ96,RZZ97,RZZ98,RZZ99,RZZ	RES.,0 OHM,1/10W,0603,AEC-Q200	VISHAY VISHAY NIC VISHAY	CRCW06030000Z0EA CRCW06030000Z0EB NRC062OTRF CRCW06030000Z0EC	Y Y Y Y		0
47	49		R49,RL1,RL2,RL3,RL4,RL5,RL6,RL7,RL8,RL9,RL10,RL11,RL12,RL13,RL14,RL15,RL16,RL17,RL18,RL19,RL20,RL21,RL22,RL23,RL24,RL25,RL26,RL27,RL28,RL29,RL30,RL31,RL32,RL33,RL34,RL35,RL36,RL37,RL38,RL39,RL40,RL41,RL42,RL43,RL44,RL45,RL46,RL47,RL48	RES.,20k OHMS,1%,1/4W,1206,AEC-Q200	PANASONIC VISHAY	ERJ8ENF2002V CRCW120620K0FKEA	Y Y	20K	
48	26		R64,R72,R74,R75,R76,R77,R78,R79,R80,R81,R82,R83,R84,R85,R86,R87,R89,R90,R95,R96,R97,R98,R99,R100,R101,R102	RES.,10 OHMS,5%,1/10W,0603,AEC-Q200	VISHAY NIC	CRCW060310R0JNEA NRC061J00TRF	Y Y		10
49	0	R88,RIS03	RES., OPTION, 1206					OPT	NO STUFF
50	2	R93,R94	RES.,5.1M OHMS,1%,1/4W,1206,ANTI-SULFUR,AEC-Q200	KOA SPEER	RK73H2BRITD5104F	Y		5.1M	
51	48		RD1,RD2,RD3,RD4,RD5,RD6,RD7,RD8,RD9,RD10,RD11,RD12,RD13,RD14,RD15,RD16,RD17,RD18,RD19,RD20,RD21,RD22,RD23,RD24,RD25,RD26,RD27,RD28,RD29,RD30,RD31,RD32,RD33,RD34,RD35,RD36,RD37,RD38,RD39,RD40,RD41,RD42,RD43,RD44,RD45,RD46,RD47,RD48	RES.,3M OHMS,1%,1/10W,0603	VISHAY	CRCW06033M00FKEA	Y	3M	
52	48		RE1,RE2,RE3,RE4,RE5,RE6,RE7,RE8,RE9,RE10,RE11,RE12,RE13,RE14,RE15,RE16,RE17,RE18,RE19,RE20,RE21,RE22,RE23,RE24,RE25,RE26,RE27,RE28,RE29,RE30,RE31,RE32,RE33,RE34,RE35,RE36,RE37,RE38,RE39,RE40,RE41,RE42,RE43,RE44,RE45,RE46,RE47,RE48	RES.,6.2M OHMS,1%,1/10W,0603,AEC-Q200	VISHAY	CRCW06036M20FKEA	Y	6.2M	
53	3	REP5,REP6,REP7	RES.,5.1k OHMS,1%,1/10W,0603,AEC-Q200	NIC PANASONIC VISHAY	NRC06F5101TRF ERJ3EKF5101V CRCW06035K10FKEA	Y Y Y		5.1k	
54	2	RISO1,RISO2	RES.,0 OHM,1/4W,1206,AEC-Q200	VISHAY PANASONIC NIC	CRCW12060000Z0EA ERJ8GEYOR00V NRC12ZOTRF	Y Y Y			0
55	1	RM2	RES.,24.3k OHMS,1%,1/10W,0603,AEC-Q200	VISHAY	CRCW060324K3FKEA	Y		24.3k	
56	1	RM3	RES.,18.7k OHMS,1%,1/10W,0603,AEC-Q200	NIC PANASONIC VISHAY	NRC06F1872TRF ERJ3EKF1872V CRCW060318K7FKEA	Y Y Y		18.7k	
57	1	RM4	RES.,14.3k OHMS,1%,1/10W,0603,AEC-Q200	PANASONIC Vishay	ERJ3EKF1432V CRCW060314K3FKEA	Y Y		14.3k	
58	1	RM5	RES.,11k OHMS,1%,1/10W,0603,AEC-Q200	PANASONIC VISHAY	ERJ3EKF1102V CRCW060311K0FKEA	Y Y		11k	
59	1	RM6	RES.,8.45k OHMS,1%,1/10W,0603,AEC-Q200	NIC PANASONIC VISHAY	NRC06F8451TRF ERJ3EKF8451V CRCW06038K45FKEA	Y Y Y		8.45K	
60	1	RM7	RES.,6.49k OHMS,1%,1/10W,0603	VISHAY YAGEO	CRCW06036K49FKEA RC0603FR-076K49L	Y Y		6.49k	
61	1	RM8	RES.,1k OHM,1%,1/10W,0603	VISHAY YAGEO	CRCW06031K00FKEA RC0603FR-071KL	Y Y		1k	

		O6,RO7,RO8,RO9,RO10,RO11,RO12,RO13,RO14,RO15,RO16,RO17,RO18,RO19,RO20,RO21,RO22,RO23,RO24,RP1,RP2,RP3,RP4,RP5,RP6,RP7,RP8,RP9,RP10,RP11,RP12,RP13,RP14,RP15,RP16,RP17,RP18,RP19,RP20,RP21,RP22,RP23,RP24,RQ1,RQ2,RQ3,RQ4,RQ5,RQ6,RQ7,RQ8,RQ9,RQ10,RQ11,RQ12,RQ13,RQ14,RQ15,RQ16,RQ17,RQ18,RQ19,RQ20,RQ21,RQ22,RQ23,RQ24,RR1,RR2,RR3,RR4,RR5,RR6,RR7,RR8,RR9,RR10,RR11,RR12,RR13,RR14,RR15,RR16,RR17,RR18,RR19,RR20,RR21,RR22,RR23,RR24,RW1,RW2,RW3,RW4,RW5,RW6,RW7,RW8,RW9,RW10,RW11,RW12,RW13,RW14,RW15,RW16,RW17,RW18,RW19,RW20,RW21,RW22,RW23,RW24,RX1,RX2,RX3,RX4,RX5,RX6,RX7,RX8,RX9,RX10,RX11,R					
62	192	RES.,75 OHMS,5%,1/10W,0603,AEC-Q200	NIC PANASONIC VISHAY	NRC06J750TRF ERJ3GEYJ750V CRCW060375R0JNEA	Y Y Y	75	
63	2	SW1,SW2	PANASONIC	EVQPE105K	Y	SPST	
64	1	SW5	CTS	219-2MST 219-2MSTR	Y Y	SPST	
65	24	T1,T2,T3,T4,T5,T6,T7,T8,T9,T10,T11,T12,T13,T14,T15,T16,T17,T18,T19,T20,T21,T22,T23,T24	XFMR,LAN,1CT:1CT Tx, 1CT:1CT Rx,350uH,SMD,1000 Base-T,4PPoE,1 PORT	WURTH ELEKTRONIK	7490220122	Y	7490220122
66	1	U1	IC,150V,100A,Synch.Step-Down Reg.,MSOP-16	ANALOG DEVICES	LTC3639EMSE#PBF LTC3639EMSE#TRPBF	Y Y	LTC3639EMSE
67	1	U2	IC, MEMORY,EEPROM,2Kb (256x8),TSSOP-8,400kHz	Microchip MICROCHIP	24LC025-I/ST 24LC025T-I/ST	Y Y	24LC025-I/ST