

Linear Technology Corporation

LTC237XCUH-18/16 FAMILY

Bill Of Materials

Demo Bd.# 2071A-3-GENERAL BOM

1/4/2017 4:04 PM

Item	Qty	Reference	Part Description	Manufacturer / Part #	Kit Qty
				NUMBER OF BOARDS =	780
1	18	C1-C6,C11,C12,C18,C32,C36, C61,C71,C73,C75,C82,C88,C94	CAP., X7R, 0.1uF, 16V,10%, 0603	NIC, NMC0603X7R104K16TRPF	14040
2	10	C7,C10,C35,C40,C42,C47, C51,C57,C93,C98	CAP., X5R, 10uF 25V, 10%, 0805	TDK, C2012X5R1E106K	7800
3	3	C8,C14,C31	CAP., C0G, 1200pF 50V 5%, 0603	MURATA GRM1885C1H122JA01D	2340
4	0	C9,C15-C17,C20,C24,C26,C27,C29, C37,C84,C86,C96,C103,C104	CAP., 0603	OPT	0
5	1	C13	CAP., X7R, 47uF, 10V 10%, 1210	MURATA, GRM32ER71A476KE15L	780
6	2	C19,C95	CAP., X5R, 4.7uF, 10V, 20%, 0603	TDK, C1608X5R1A475M	1560
7	3	C21,C22,C23	CAP., C0G, 3300pF 50V 5%, 0603	MURATA GRM1885C1H332JA01D	2340
8	10	C30,C34,C41,C43,C44,C48,C49, C55,C72,C85	CAP., X5R, 1uF, 25V,10%, 0603	TDK, C1608X5R1E105K	7800
9	1	C33	CAP., X5R, 2.2uF, 16V, 10%, 0603	TDK, C1608X5R1C225K	780
10	1	C38	CAP., X5R, 47uF, 25V 20%, 1206	TDK, C3216X5R1E476M	780
11	5	C39,C45,C50,C53,C56	CAP., NP0, 0.01uF, 25V, 5%, 0603	TDK, C1608C0G1E103J	3900
12	11	C46,C54,C74,C76-C78, C87,C89,C91,C99,C101	CAP., X5R, 10uF, 6.3V, 20%, 0603	TDK, C1608X5R0J106M	8580
13	1	C52	CAP., X5R, 3.3uF, 25V, 10%, 0603	TDK, C1608X5R1C335K	780
14	12	C58-C60,C62-C70	CAP., X7R, 0.1uF, 16V,10%, 0402	NIC, NMC0402X7R104K16TRPF	9360
15	0	C79,C81,C92	CAP., 1206	OPT	0
16	3	C80,C83,C90	CAP., C0G, 15pF, 50V, 5%, 0603	TDK, C1608C0G1H150J	2340
17	2	C97,C100	CAP., C0G, 0.22uF, 50V, 5%, 1812	TDK, C4532C0G1H224J	1560
18	5	C102,C105-C108	CAP., NP0, 0.01uF, 25V, 5%, 0603	KEMET, C0603C103J3GAC7867	3900
19	10	E1-E3,E5,E8-E13	TESTPOINT, TURRET, .064" pbf	MILL-MAX, 2308-2-00-80-00-00-07-0	7800
20	3	E4,E6,E7	TESTPOINT, TURRET, .094" pbf	MILL-MAX, 2501-2-00-80-00-00-07-0	2340
21	7	JP1,JP3,JP5-JP9	JMP, 1X3, .100", HD1X3-100	SAMTEC, TSW-103-07-L-S	5460
22	1	JP2	JMP, 2X4, .100", HD2X4-100	SAMTEC, TSW-104-07-L-D	780
23	1	JP4	JMP, 2X5, .100", HD2X5-100	SAMTEC, TSW-105-07-L-D	780
24	7	J1-J7	CONN BNC FEM JACK PC MNT STRGHT,BNC5	Amphenol Connex, 112404	5460
25	1	J8	CONN., HEADER 14POS 2MM VERT GOLD	MOLEX, 87831-1420	780
26	15	R1,R4,R11,R12,R23,R27,R28,R31, R32,R35,R37,R111,R115,R123,R127	RES., CHIP, 1K, 1/10W, 1% 0603	NIC, NRC06F1001TRF	11700
27	5	R2,R5,R6,R9,R10	RES., CHIP, 33, 1/10W, 5% 0603	PANASONIC, ERJ-3GEYJ330V	3900
28	1	R3	RES., CHIP, 49.9, 1/4W, 1% 1206	NIC, NRC12F49R9TRF	780
29	0	R7,R13,R14,R16-R19,R91-R93,R97,R100, R106,R108,R110,R124,R129-R131,R137	RES., 0603	OPT	0
30	12	R8,R15,R24,R90,R94,R98,R109,	RES., CHIP, 0, 1/10W, 0603	VISHAY, CRCW06030000Z0EA	9360

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Item	Qty	Reference	Part Description	Manufacturer / Part #	Kit Qty
				NUMBER OF BOARDS =	780
		R112-R114,R121,R128			
31	1	R20	RES., CHIP, 787, 1/10W, 1% 0603	YAGEO, RC0603FR-07787RL	780
32	5	R21,R96,R99,R103,R105	RES., CHIP, 10, 1/10W, 5% 0603	PANASONIC, ERJ-3GEYJ100V	3900
33	1	R22	RES., CHIP, 221, 1/10W, 1% 0603	YAGEO, RC0603FR-07221RL	780
34	1	R25	RES., CHIP, 2K, 1/10W, 1% 0603	NIC, NRC06F2001TRF	780
35	1	R26	RES., CHIP, 5.62K, 1/10W, 1% 0603	NIC, NRC06F5621TRF	780
36	1	R29	RES., CHIP, 1.07K, 1/10W, 1% 0603	NIC, NRC06F1071TRF	780
37	2	R30,R36	RES., CHIP, 11.5K, 1/10W, 1% 0603	YAGEO, RC0603FR-0711K5L	1560
38	1	R33	RES., CHIP, 1.58K, 1/10W, 1% 0603	NIC, NRC06F1581TRF	780
39	1	R34	RES., CHIP, 3.16K, 1/10W, 1% 0603	NIC, NRC06F3161TRF	780
40	40	R38-R43,R45-R77,R83	RES., CHIP, 33, 1/16W, 5% 0402	VISHAY, CRCW040233R0JNED	31200
41	4	R44,R78,R84,R86	RES., CHIP, 10K, 1/16W, 5% 0402	VISHAY, CRCW040210K0JNED	3120
42	3	R80,R81,R82	RES., CHIP, 1K, 1/16W, 5% 0402	VISHAY, CRCW04021K00JNED	2340
43	5	R85,R87,R88,R89,R120	RES., CHIP, 4.99K, 1/10W, 1% 0603	PANASONIC, ERJ-3EKF4991V	3900
44	4	R95,R101,R104,R107	RES., CHIP, 24.9, 1/10W, 1% 0603	PANASONIC, ERJ-3EKF24R9V	3120
45	1	R102	RES., CHIP, 499, 1/10W, 1% 0603	NIC, NRC06F4990TRF	780
46	2	R116,R125	RES., CHIP, 20K, 1/10W, 1% 0603	YAGEO, RC0603FR-0720KL	1560
47	1	R117	RES., CHIP, 150, 1/10W, 5% 0603	NIC, NRC06J151TRF	780
48	1	R122	RES., CHIP, 100, 1/10W, 5% 0603	VISHAY, CRCW0603100RJNEA	780
49	1	R126	RES., CHIP, 10K, 1/10W, 5% 0603	NIC, NRC06J103TRF	780
50	4	R132-R135	RES., CHIP, 20, 1/10W, 5% 0603	VISHAY, CRCW060320R0JNEA	3120
51	0	R136	RES., 0402	OPT	0
52	4	U2,U3,U5,U19	IC., TINYLOGIC UHS INVERTER, SC70-5	FAIRCHILD, NC7SZ04P5X	3120
53	1	U4	IC., SINGLE D FLIP FLOP, US8	ON SEMI., NL17SZ74USG	780
54	4	U6,U20,U21,U22	IC., SINGLE SPST BUS SWITCH, SC70-5	FAIRCHILD, NC7SZ66P5X	3120
55	0	U7	IC., OP AMP/SAR ADC DRIVER, LT6237CMS8,MS8	OPT	0
56	1	U8	IC., 215MHz OP AMP/SAR ADC DRIVER, TSOT23-6	LINEAR TECH., LT6236CS6	780
57	1	U9	IC., 0.25ppm NOISE, LOW DRIFT PRECISION REF., MS8	LINEAR TECH.,LTC6655BHMS8-4.096	780
58	4	U10,U11,U12,U14	IC., 500mA LDO MICROPWR REGULATORS,SO8	LINEAR TECH., LT1763CS8	3120
59	1	U13	IC., 500mA LDO MICROPWR REGULATORS,SO8	LINEAR TECH., LT1763CS8-1.8	780
60	2	U15,U16	IC., 200mA LDO MICROPWR REGULATORS,SOT23-5	LINEAR TECH., LT1964ES5-SD	1560
61	1	U17	IC., I2C-BUS 8-BIT I/O, SSOP20	PHILIPS, PCF8574TS/3+118	780
62	1	U18	IC., MAX II FAMILY, TQFP100	ALTERA, EPM240GT100C5N	780
63	1	U23	IC., SERIAL EEPROM, TSSOP8	Microchip, 24LC024-I/ST	780
64	1	U24	IC., MS8	LINEAR TECH., LT6237CMS8	780
65	1	U25	IC., SO8	LINEAR TECH., LT1469CS8	780
66	1	U26	IC., MS8E	LINEAR TECH., LT5400ACMS8E-4	780

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				NUMBER OF BOARDS =	780
67	1	U27	IC., MS8	LINEAR TECH., LT6350CMS8	780
68	4	MH1-MH4	STAND-OFF, NYLON, 0.25"	KEYSTONE, 8831(SNAP ON)	3120
69	8	SHUNTS-SEE ASSY DWG	SHUNT, 0.1" CENTER	SAMTEC, SNT-100-BK-G	6240
70	2		STENCILS (TOP & BOTTOM)	DC2071A-3	2

Assy Version	Item	Qty	Reference	Part Description	Manufacturer / Part #	Kit Qty
					NUMBER OF BOARDS =	780
A	1	1	DC2071A-3	GENERAL BOM		1
	2	2	C25,C28	CAP., C0G, 1500pF 50V 5%, 0603	MURATA GRM1885C1H152JA01D	480
	3	1	R79	RES., CHIP, 300, 1/10W, 5%, 0603	NIC, NRC06J301TRF	240
	4	2	R118,R119	RES., CHIP, 35.7, 1/10W, 1% 0603	PANASONIC, ERJ-3EKF35R7V	480
	5	1	U1	I.C., 18-Bit, 1.0Msps, QFN32UH-5X5	LINEAR TECH., LTC2373CUH-18	240
	6	1	U28	IC., DIFFERENTIAL OP AMP/SAR ADC, MS8	LINEAR TECH., LTC6362CMS8	240
B	1	1	DC2071A-3	GENERAL BOM		1
	2	2	C25,C28	CAP., C0G, 1500pF 50V 5%, 0603	MURATA GRM1885C1H152JA01D	480
	3	1	R79	RES., CHIP, 300, 1/10W, 5%, 0603	NIC, NRC06J301TRF	130
	4	2	R118,R119	RES., CHIP, 35.7, 1/10W, 1% 0603	PANASONIC, ERJ-3EKF35R7V	480
	5	1	U1	I.C., 18-Bit, 0.5Msps, QFN32UH-5X5	LINEAR TECH., LTC2372CUH-18	130
	6	1	U28	IC., DIFFERENTIAL OP AMP/SAR ADC, MS8	LINEAR TECH., LTC6362CMS8	130
C	1	1	DC2071A-3	GENERAL BOM		1
	2	2	C25,C28	CAP., C0G, 180pF 50V 5%, 0603	MURATA GRM1885C1H181JA01D	480
	3	0	R79	RES., CHIP, 300, 1/10W, 5%, 0603	OPT	0
	4	2	R118,R119	RES., CHIP, 100, 1/10W, 1% 0603	PANASONIC, ERJ-3EKF100RV	480
	5	1	U1	I.C., 16-Bit, 1.6Msps, QFN32UH-5X5	LINEAR TECH., LTC2374CUH-16	150
	6	1	U28	IC., DIFFERENTIAL OP AMP, MS8	LINEAR TECH., LTC6363IMS8	150
D	1	1	DC2071A-3	GENERAL BOM		1
	2	2	C25,C28	CAP., C0G, 1500pF 50V 5%, 0603	MURATA GRM1885C1H152JA01D	480
	3	0	R79	RES., CHIP, 300, 1/10W, 5%, 0603	OPT	0
	4	2	R118,R119	RES., CHIP, 35.7, 1/10W, 1% 0603	PANASONIC, ERJ-3EKF35R7V	480
	5	1	U1	I.C., 16-Bit, 1.0Msps, QFN32UH-5X5	LINEAR TECH., LTC2373CUH-16	130
	6	1	U28	IC., DIFFERENTIAL OP AMP/SAR ADC, MS8	LINEAR TECH., LTC6362CMS8	130
E	1	1	DC2071A-3	GENERAL BOM		1
	2	2	C25,C28	CAP., C0G, 1500pF 50V 5%, 0603	MURATA GRM1885C1H152JA01D	480
	3	0	R79	RES., CHIP, 300, 1/10W, 5%, 0603	OPT	0
	4	2	R118,R119	RES., CHIP, 35.7, 1/10W, 1% 0603	PANASONIC, ERJ-3EKF35R7V	480
	5	1	U1	I.C., 16-Bit, 0.5Msps, QFN32UH-5X5	LINEAR TECH., LTC2372CUH-16	130
	6	1	U28	IC., DIFFERENTIAL OP AMP/SAR ADC, MS8	LINEAR TECH., LTC6362CMS8	130