

Linear Technology Corporation
LTC6952IUKG

Bill Of Materials
DEMO CIRCUIT 2609A-2
7/14/2017 1:39 PM

Item	Qty	Reference	Part Description	Manufacturer / Part #	Kit Qty
				NUMBER OF BOARDS =	325
1	0	C11_A,C3,CP_A (OPT)	CAP., OPTION, 0603	OPT	0
2	1	C11_P	CAP., 0.68uF, X7R, 16V, 10%, 0603, AEC-Q200	SAMSUNG, CL10B684KO8VPNC	325
3	0	C12_A (OPT)	CAP., OPTION, 1206	OPT	0
4	1	C12_P	CAP., 1uF, X7R, 25V, 10%, 1206, AEC-Q200	SAMSUNG, CL31B105KAPWPNE	325
5	1	CP_P	CAP., 0.033uF, X7R, 50V, 10%, 0603	MURATA, GRM188R71H333KA61D	325
6	18	C1,C4,C6,C9,C50,C51,C52,C53,C54,C55,C56,C57,C58,C59,C60,C61,C110,C112	CAP., 1uF, X5R, 16V, 10%, 0402	MURATA, GRM155R61C105KE01D	5850
7	1	C2	CAP., 0.022uF, X7R, 50V, 10%, 0603	MURATA, GRM188R71H223KA01D	325
8	25	C5,C11,C17,C18,C19,C20,C21,C22,C23,C24,C26,C29,C30,C31,C32,C63,C64,C65,C66,C67,C81,C88,C89,C101,C111	CAP., 0.1uF, X7R, 10V, 10%, 0402	MURATA, GRM155R71A104KA01D AVX, 0402ZC104KAT2A	8125
9	1	C7	CAP., 0.01uF, X7R, 16V, 10%, 0402	AVX, 0402YC103KAT2A	325
10	0	C8,C12,C14,C15,C16,C25,C27,C28,C33,C34,C35,C36,C37,C82,C83,C84,C85	CAP., OPTION, 0402	OPT	0
11	14	C10,C38,C39,C40,C41,C42,C43,C44,C45,C46,C47,C48,C49,C62	CAP., 0.01uF, X7R, 6.3V, 10%, 0201	MURATA, GRM033R70J103KA01D	4550
12	1	C13	CAP., 10pF, C0G, 50V, 10%, 0402	AVX, 04025A100KAT2A	
13	3	C68,C91,C106	CAP., 22uF, ALUM., 63V, 20%, SMD 6.3x7.7mm, CE-BS Series	SUN ELECTRONIC INDUSTRIES CORPORATION, 63CE22BS	975
14	4	C69,C74,C92,C97	CAP., 10uF, ALUM., 63V, 20%, SMD 6.3x5.4mm, CE-BS Series	SUN ELECTRONIC INDUSTRIES CORPORATION, 63CE10BS	1300
15	13	C70,C72,C73,C75,C77,C78,C93,C95,C96,C98,C104,C105,C107	CAP., 4.7uF, X7R, 50V, 10% 1206	MURATA, GRM31CR71H475KA12L AVX, 12065C475KAT2A NIC, NMC1206X7R475K50TRPLPF	4225
16	6	C71,C76,C79,C86,C94,C103	CAP., 0.1uF, X7R, 16V, 10%, 0603	MURATA, GRM188R71C104KA01D YAGEO, CC0603KRX7R7BB104	1950
17	3	C80,C87,C90	CAP., 47uF, TANT, 35V, 10%, 7361	AVX, TAJV476K035RNJ	975
18	1	C99	CAP., 330uF, TANT, 10V, 10%, 7343	AVX, TPME337K010R0035	325
19	1	C100	CAP., 10uF, X7R, 25V, 10%, 1206	MURATA, GRM31CR71E106KA12L	325
20	1	C102	CAP., 1uF, X7R, 50V, 10%, 0805	TDK, C2012X7R1H105K125AB	325
21	1	C108	CAP., 47uF, X5R, 25V, 20%, 1206	TDK, C3216X5R1E476M160AC	325
22	1	C109	CAP., 4.7uF, X7R, 16V, 10%, 0805	MURATA, GRM21BR71C475KA73L AXV, 0805YC475KAT2A	325
23	1	D1	LED, RED, CLEAR, 3020 (1208)	ROHM, SML-012V8TT86	325
24	5	D2,D3,D4,D5,D6	LED, GREEN, CLEAR, 3020 (1208)	ROHM, SML-012P8TT86	1625
25	15	E1,E2,E3,E4,E5,E6,E7,E8,E9,E10,E11,E12,E13,E14,E15	TEST POINT, TURRET, 0.064", MTG. HOLE	MILL-MAX, 2308-2-00-80-00-00-07-0	4875
26	3	FB1,FB2,FB3	IND., 330 OHMS @ 100MHz, FERRITE BEAD, 25%, 0.8A, 0.21OHMS @603	TAIYO YUDEN, FBMH1608HL331-T	975

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27	2	FB4,FB5	IND., 220 OHMS @ 100MHz, FERRITE BEAD, 3A, 0.04OHM, 0805	TDK, MPZ2012S221AT000	650
28	7	JP1,JP2,JP3,JP4,JP5,JP6,JP7	CONN., HDR, MALE, 1x3, 2mm, THT, STR	Würth Elektronik, 62000311121	2275
29	0	J1,J2,J7,J8,J13,J14,J15,J16,J21,J22 (OPT)	CONN., SMA, JACK, RCPT, END LAUNCH, STR, 50 OHMS	OPT	0
30	19	J3,J4,J5,J6,J9,J10,J11,J12,J17,J18,J19,J20,J24,J25,J26,J27,J28,J29,J31	CONN., SMA, JACK, RCPT, END LAUNCH, STR, 50 OHMS	CINCH CONNECTIVITY SOLUTIONS, 142-0701-851	6175
31	1	J23	CONN., HDR., MALE, 2x7, 2mm, THT, VERT, SHROUDED	MOLEX, 87831-1420	325
32	3	J30,J32,J33	CONN., BANANA JACK, FEMALE, THT, NON-INSULATED, SWAGE, 0.218"	KEYSTONE, 575-4	975
33	1	L1	IND., 0 OHM, 1/8W, 0805	VISHAY, CRCW08050000Z0EA YAGEO, RC0805JR-070RL	325
34	1	L2	IND., 2.2uH, PWR, 20%, 8A, 23.5mOHMS, 4.3mmX4.3mm, AEC-Q200	COILCRAFT, XFL4020-222MEB COILCRAFT, XFL4020-222MEC	325
35	2	R1,RZ_P	RES., 48.7 OHMS, 1%, 1/10W, 0603, AEC-Q200	VISHAY, CRCW060348R7FKEA	650
36	4	R2,R39,R51,R52	RES., 0 OHM, 1/10W, 0603	VISHAY, CRCW06030000Z0EA NIC, NRC06ZOTRF	1300
37	0	R3,R8,R11,R13,R14,R15,R17,R20,R35,R64,R69 (OPT)	RES., OPTION, 0402	OPT	0
38	2	R4,R73	RES., 49.9 OHMS, 1%, 1/16W, 0402	VISHAY, CRCW040249R9FKED NIC, NRC04F49R9TRF	650
39	0	R5,R6,R21 (OPT)	RES., 100 OHMS, 1%, 1/16W, 0402	OPT	0
40	8	R7,R9,R10,R42,R50,R54,R63,R70	RES., 0 OHM, 1/16W, 0402	VISHAY, CRCW04020000Z0ED NIC, NRC04ZOTRF YAGEO, RC0402JR-070RL	2600
41	1	R12	RES., 330 OHMS, 1%, 1/16W, 0402, AEC-Q200	VISHAY, CRCW0402330RFKED	325
42	11	R16,R19,R23,R24,R25,R26,R29,R30,R33,R34,R40	RES., 100 OHMS, 1%, 1/16W, 0402	VISHAY, CRCW0402100RFKED SPEER, RK73H1ETTP1000F PANASONIC, ERJ2RKF1000X ROHM, MCR01MZPF1000	KOA 3575
43	1	R18	RES., 75 OHMS, 1%, 1/16W, 0402, AEC-Q200	VISHAY, CRCW040275R0FKED	325
44	1	R22	RES., 30 OHMS, 1%, 1/16W, 0402, AEC-Q200	VISHAY, CRCW040230R0FKED	325
45	6	R27,R28,R31,R32,R41,R53	RES., 200k OHMS, 1%, 1/16W, 0402	VISHAY, CRCW0402200KFKEA PANASONIC, ERJ2RKF2003X YAGEO, RC0402FR-07200KL	1950
46	5	R36,R37,R38,R57,R58	RES., 4.99k OHMS, 1%, 1/16W, 0402	VISHAY, CRCW04024K99FKED NIC, NRC04F4991TRF YAGEO, RC0402FR-074K99L	1625
47	4	R43,R62,R65,R75	RES., 619 OHMS, 1%, 1/16W, 0402, AEC-Q200	VISHAY, CRCW0402619RFKED	1300
48	1	R44	RES., 33.2k OHMS, 1%, 1/4W, 0805, AEC-Q200	VISHAY, CRCW080533K2FKEA	325

49	1	R45	RES., 1.21k OHMS, 1%, 1/16W, 0402	VISHAY, CRCW04021K21FKED KOAA SPEER, RK73H1ETTP1211F ROHM, MCR01MZPF1211	325
50	1	R46	RES., 80.6k OHMS, 1%, 1/4W, 0805, AEC-Q200	VISHAY, CRCW080580K6FKEA	325
51	0	R47,R48,R49,R55,R56,RZ_A (OPT)	RES., OPTION, 0603	OPT	0
52	2	R59,R61	RES., 49.9k OHMS, 1%, 1/8W, 0805, AEC-Q200	VISHAY, CRCW080549K9FKEA PANASONIC, ERJ6ENF4992V	650
53	1	R60	RES., 698k OHMS, 1%, 1/8W, 0805, AEC-Q200	VISHAY, CRCW0805698KFKEA	325
54	2	R66,R67	RES., 0 OHM, 3/4W, 2010, AEC-Q200	VISHAY, CRCW20100000Z0EF	650
55	2	R68,R74	RES., 1M OHM, 1%, 1/10W, 0603	VISHAY, CRCW06031M00FKEA NIC, NRC06F1004TRF PANASONIC, ERJ3EKF1004V	650
56	1	R71	RES., 18.2k OHMS, 1%, 1/10W, 0603	VISHAY, CRCW060318K2FKEA MOUSER ELECT., 71-CRCW0603-18.2K-E3	325
57	1	R72	RES., 309k OHMS, 1%, 1/10W, 0603, AEC-Q200	VISHAY, CRCW0603309KFKEA	325
58	1	U1	IC., ULTRALOW JITTER PLL, QFN-52(UKG)7x8	LINEAR TECH., LTC6952IUKG#PBF	325
59	1	U2	OSC., 100MHz, 15pF, +/-25ppm, 5x7.5mm SMD, 3.3V, HCMOS,	CRYSTEK CORPORATION, CCHD-575-25-100.000	325
60	1	U3	IC., MEMORY, EEPROM, 2Kb (256x8), TSSOP-8, 400kHz	MICROCHIP, 24LC025-I /ST	325
61	2	U4,U5	IC., TinyLogic UHS Dual Buffer, SC70-6	FAIRCHILD SEMI., NC7WZ17P6X	650
62	1	U6	IC., Dual Supply Receiver, SOT363-6 (SC-88), Single Bit, 3-State Outputs	NXP SEMI., 74LVC1T45GW,125	325
63	3	U7,U8,U11	IC., PSRR RF LINEAR REGULATOR, DFN-10(DD)	LINEAR TECH., LT3042EDD#PBF LINEAR TECH., LT3042EDD#TRPBF	975
64	1	U9	OSC. COAXIAL RESONATOR, 4000-4000MHZ, 10pF, 50 OHMS, 0.50" SQ SMD, VCO, PS=8V, MAX VTUNE=4.7V	CRYSTEK, CVCO55CC-4000-4000	325
65	1	U10	IC., DUAL/QUAD LOW NOISE OP AMPS, SO8	LINEAR TECH., LT1678IS8#PBF	325
66	1	U12	IC., 3A, 3.3V, LDO REGULATOR, DDPAK5Q	LINEAR TECH., LT1764AEQ-3.3#PBF	325
67	1	U13	IC., Silent Switcher 2 Synchronous, LGA-16(3x3)	LINEAR TECH., LT8609SIV#PBF	325
68	7	JP1,JP2,JP3,JP6,JP6 PINS 1&2; JP4 AND JP7 PINS 2&3	CONN., SHUNT, FEMALE, 2 POS, 2mm	Würth Elektronik, 60800213421	2275
69	4	MH1,MH2,MH3,MH4	STANDOFF, NYLON, SNAP-ON, 0.50"	Würth Elektronik, 702935000	1300
70	2	STENCILS	TOOL, STENCIL, DC2609A-1	LINEAR TECH., DC2609A-1	2