

Item	Qty	Reference	Part Description	Manufacturer / Part #
LTC4013 CIRCUIT COMPONENTS:				
1	1	C1	CAP, CHIP, X5R, 4.7µF, ±10%, 50V, 0805	TDK, C2012X5R1H475K
2	3	C2, C13, C21	CAP, CHIP, X5R, 68nF, ±10%, 50V, 0402	TDK, CGA2B3X5R1H683M050BB
3	2	C3, C4	CAP, CHIP, X5R, 10µF, ±20%, 50V, 1210	TDK, C3225X5R1H106M250AB
4	1	C10	CAP, 150µF ALUM. ELECT., 50V, 20%, 10x10.2mm RADIAL, FK Series, AEC-Q200	PANASONIC, EEE-FK1H151P
5	1	C14	CAP, CHIP, X5R, 4.7µF, ±20%, 6.3V, 0603	TAIYO YUDEN, JMK107BJ475MAHT
6	1	C15	CAP, CHIP, X5R, 0.22µF, ±10%, 25V, 0402	TAIYO YUDEN, TMK105BJ224KVHF
7	1	C16	CAP, CHIP, COG, 33pF, ±5%, 50V, 0402	JOHANSEN TECHNOLOGY, 500R07S330JV4T
8	1	C17	CAP, CHIP, X5R, 0.22µF, ±10%, 10V, 0402	TAIYO YUDEN, LMK105BJ224KV-F
9	3	C18-C20	CAP, CHIP, X5R, 22µF, ±20%, 25V, 1210	TAIYO YUDEN, TMK325BJ226MM-T
10	1	C24	CAP, 220µF, 25V, Alum. Electro, 20%, 8mm X 10.2mm	PANASONIC, EEH2C1E221P
11	2	C26, C29	CAP, CHIP, COG, 100pF, ±5%, 50V, 0402	TDK, CGJ2B2C0G1H101J050BA
12	1	C27	CAP, CHIP, X7R, 47nF, ±10%, 25V, 0402	MURATA, GCM155R71E473KA55D
13	1	C28	CAP, CHIP, X7R, 4.7nF, ±10%, 25V, 0402	MURATA, GRM155R71E472KA01D
14	1	C31	CAP, CHIP, X5R, 10nF, ±10%, 10V, 0402	KEMET, C0402C103K8PAC7867
15	1	D1	DIODE, GEN PURP, 75V, 250MA, SOD123	DIODES INC., 1N4448WQ-7-F
16	1	D5	DIODE, GEN PURP, 75V, 150MA, SOD323F	ON SEMICONDUCTOR, 1N4148WS
17	1	L1	IND, SMT, 6.8µH, ±20%	WURTH, 74439358068
18	4	M1, M2, M3, M4	MOSFET, N-CH, 40V, 10.5A, 1212-8	VISHAY SILICONIX, SI7116DN-T1-E3
19	2	R1, R15	RES, CHIP, 20Ω, ±1%, 1/16W, 0402	VISHAY, CRCW040220R0FKED
20	2	R2, R3	RES, CHIP, 665kΩ, ±1%, 0.1W, 0402	VISHAY, CRCW0402665KFKED
21	2	R4, R21	RES, CHIP, 40.2KΩ, ±1%, 0.1W, 0402	VISHAY, CRCW040240K2FKED
22	2	R5, R24	RES, CHIP, 10KΩ, ±1%, 1/16W, 0402	VISHAY, CRCW040210K0FKED
23	1	R6	RES, CHIP, 49.9KΩ, ±1%, 1/16W, 0402	VISHAY, CRCW040249K9FKED
24	3	R7-R9	RES, CHIP, 100KΩ, ±5%, 1/16W, 0402	VISHAY, CRCW0402100KJNED
25	1	R10	RES, CHIP, 3.40KΩ, ±1%, 1/16W, 0402	VISHAY, CRCW04023K40FKED
26	2	R11, R12	RES, CHIP, 86.6KΩ, ±1%, 1/16W, 0402	VISHAY, CRCW040286K6FKED
27	3	R13, R14, R17	RES, CHIP, 100KΩ, ±1%, 1/16W, 0402	VISHAY, CRCW0402100KFKED
28	1	R16	RES, CHIP, 499KΩ, ±1%, 1/16W, 0402	VISHAY, CRCW0402499KFKED
29	1	R22	RES, CHIP, 0Ω, ±1%, 1/16W, 0402	VISHAY, CRCW04020000Z0ED
30	1	R23	RES., 4.99 OHMS, 1%, 1/16W, 0402, AEC-Q200	VISHAY, CRCW04024R99FKEDC
31	1	RSENSE	RES, CHIP, 10mΩ, ±1%, 1W, 1632 LONG SIDE TERM	SUSUMU, PRL1632-R010-F-T1
32	1	U1	60V SYNC. BUCK MULTI-CHEMISTRY BATTERY CHARGER	LINEAR TECH., LTC4013EUFDP#PBF
ADDITIONAL DEMO BOARD CIRCUIT COMPONENTS:				
33	0	C5 (OPT)	CAP, 68µF, 50V, Alum. Electro, 20%, 8mm x 10.2mm	PANASONIC, EEHZA1H680P
34	0	C6-C9, C22, C23 (OPT)	CAP, CHIP, X5R, 10µF, ±20%, 50V, 1210	TDK, C3225X5R1H106M250AB
35	0	C11, C12 (OPT)	CAP, 68µF, ALUM. ELECT., 50V, 20%, 8x10.2mm, RADIAL, AEC-Q200	PANASONIC, EEHZA1H680P
36	0	C25 (OPT)	CAP, 220µF, 25V, Alum. Electro, 20%, 8mm X 10.2mm	PANASONIC, EEH2C1E221P
37	0	C30 (OPT)	CAP, CHIP, COG, 100pF, ±5%, 50V, 0402	TDK, CGJ2B2C0G1H101J050BA
38	0	D2 (OPT)	DIODE, SCHOTTKY, 60V, 3A, SMB	ON SEMICONDUCTOR, MBRS360BT3G
39	0	D6 (OPT)	DIODE, TVS, 12V, 15.5V, 350W, SOD323-2	MICRO COMMERCIAL, ESD12VD3B-TP
40	0	L2 (OPT)	IND, SMT, WE-HCI 1365	WURTH, WE-HCI 1365
41	0	M5, M6 (OPT)	MOSFET, N-CH, 40V, 35A, 1212-8	VISHAY SILICONIX, SIS434DN-T1-GE3
42	0	R20 (OPT)	RES, CHIP, 0Ω JUMPER, 1W, 2512	VISHAY, CRCW25120000Z0EG
HARDWARE FOR DEMO BOARD ONLY:				
43	1	D3	DIODE, LED, GREEN, 0603	LITE-ON, LTST-C190KGKT
44	1	D4	DIODE, LED, RED, 0603	LUMEX, SML-LX0603SRW-TR
45	4	E1, E4, E5, E8	TURRET, 0.09 DIA	MILL-MAX, 2501-2-00-80-00-00-07-0
46	4	E2, E3, E6, E7	BANANA JACK, NON-INSULATED	KEYSTONE, 575-4
47	10	E9 - E18	TURRET, 0.061 DIA	MILL-MAX, 2308-2-00-80-00-00-07-0
48	3	JP1, JP3, JP4	HEADER, 4PINS, 2mm	WURTH, 62000411121
49	4	JP2, JP5-JP7	HEADER, 3PINS, 2mm	WURTH, 62000311121
50	7	XJP1-XJP7	SHUNT 2mm 1X2	WURTH, 60800213421
51	2	R18, R19	RES, CHIP, 7.5KΩ, ±1%, 1/4W, 1206	YAGEO, RC1206FR-077K5L
52	4	MH1-MH4	STANDOFF, NYLON 0.5"	KEYSTONE, 8833