

Item	Qty	Reference	Part Description
REQUIRED CIRCUIT COMPONENTS			
1	16	R3,R4,R7,R8,R34,R35,R38,R39,R40,R41,R43,R44,R53,R54,R58,R59	RES 1.00K OHM 1/10W 1% 0603 SMD
2	8	R10,R16,R29,R33,R47,R49,R62,R63	RES 100 OHM 1/10W 1% 0603 SMD
3	16	C2,C8,C13,C18,C32,C36,C38,C40,C43,C49, C51,C55,C56,C58,C64,C66	CAP CER .10UF 25V X7R 10% 0603
4	8	C3,C9,C39, C41,C44,C50, C57,C59	CAP 3300PF 50V CERAMIC X7R 0603
ADDITIONAL DEMO BOARD CIRCUIT COMPONENTS			
5	8	C3,C9,C39, C41,C44,C50, C57,C59	CAP 3300PF 50V CERAMIC X7R 0603
6	4	C21,C22,C71,C74	CAP CERM .22UF 10% 16V X5R 0603
7	3	Q2,Q3,Q7	TRANS GP SS PNP 40V SOT323
8	1	R15	RES 47.0K OHM 1/10W 1% 0603 SMD
9	1	R26	RES 68.0K OHM 1/10W 1% 0603 SMD
10	1	R50	RES 180K OHM 1/10W 1% 0603 SMD
11	1	R51	RES 220K OHM 1/10W 1% 0603 SMD
12	7	C1,C5,C24, C29,C72,C73, C76	CAP CERAMIC 1UF 25V X5R 0603
13	7	C4,C6,C7, C26,C27,C28, C77	CAP CER 10UF 16V X5R 0805
14	5	C10,C17,C23,C31,C78	CAP 1000PF 50V CERAMIC X7R 0603
15	2	C11,C33	CAP 22000PF 16V CERM X7R 0603
16	4	C12,C19,C37, C42	CAP CER 4.7UF 10V X5R 0603
17	2	C14,C25	CAP CER .47UF 10V 20% X5R 0603
18	4	C15,C16,C34,C35	CAP CER 47UF 6.3V X5R 20% 1210
19	2	C20,C30	CAP CERAMIC 33PF 100V NP0 0603
20	7	C45,C46,C47,C48,C68,C69,C70	CAP CER 10UF 25V X5R 1206
21	2	C52,C62	CAP CER 100UF 6.3V X5R 20% 1210
22	2	C53,C63	CAP TANT 330UF 6.3V 10% SMD
23	2	C54,C65	CAP CER 22UF 16V X5R 10% 1206
24	3	C60,C61,C75	CAP 10000PF 16V CERM X7R 0603
25	1	C67	CAP POLY ALUM 220UF 20V RAD
26	2	VIN1,GND1	TERMINAL TURRET DBL .084"L
27	3	JP1,JP2,JP3	CONN HEADER 3POS 2MM VERT T/H
28	1	J1	BERGSTIK
29	2	J2,J3	JACK NON-INSULATED .218
30	2	L1,L2	INDUCTOR POWER 4.7UH 4.5A SMD
31	4	PG1,PG2, PG3,PG0	LED GREEN S-GW TYPE SMD
32	1	PWR1	CONN POWER JACK 2.1MM
33	2	Q1,Q4	MOSFET N-CH DUAL 20V 1.3A SC70-6
34	1	Q5	MOSFET N-CH DUAL 60V 6.5A 8-SOIC
35	1	Q6	TRANS GP SS PNP 40V SOT323
36	4	R1,R36,R66, R67	RES 10M OHM 5% 1/10W 0603 SMD
37	4	R2,R37,R64, R65	RES 330 OHM 1/10W 1% 0603 SMD
38	2	R9,R28	RES 1.00K OHM 1/10W 1% 0603 SMD
39	2	R5,R21	RESISTOR 2.2 OHM 1/10W 5% 0603
40	2	R6,R23	RES 10.0 OHM 1/10W 1% 0603 SMD
41	8	R11,R14,R22,R25,R30,R55,R57,R60	RES 20.0K OHM 1/10W 1% 0603 SMD
42	2	R12,R24	RES 620 OHM 1/10W 1% 0603 SMD

43	2	R13,R19	RES 75.0K OHM 1/10W 1% 0603 SMD
44	1	R17	RES 10.0K OHM 1/10W 1% 0603 SMD
45	2	R18,R20	RES 226 OHM 1/10W 1% 0603 SMD
46	2	R27,R31	RES 13.3K OHM 1/10W 1% 0603 SMD
47	1	R32	RES 40.2K OHM 1/10W 1% 0603 SMD
48	1	R45	RES 0.0 OHM 1/10W 0603 SMD
49	1	R42	RES 0603 Option
50	1	R46	RES 120K OHM 1/10W 1% 0603 SMD
51	1	R48	RES 60.4K OHM 1/10W .5% 0603 SMD
52	1	R52	RES 91.0K OHM 1/10W 1% 0603 SMD
53	1	R56	RES 1.00M OHM 1/10W 1% 0603 SMD
54	1	R61	RES 30.0K OHM 1/10W 1% 0603 SMD
55	1	R68	RESISTOR .020 OHM 1W 1% 2512
56	2	R69,R72	RES 150K OHM 1/10W 1% 0603 SMD
57	1	R70	RES 13.3K OHM 1/10W 1% 0603 SMD
58	3	R71,R75,R76	RES 5.49K OHM 1/10W 1% 0603 SMD
59	1	R73	RES 10.0K OHM 1/10W 1% 0603 SMD
60	1	R77	RES 18 OHM 1/2W 5% 1210 SMD
61	1	R78	RES 15 OHM 1/2W 5% 1210 SMD
62	1	R79	RES 12 OHM 1/2W 5% 1210 SMD
63	1	R80	RES 10 OHM 1/2W 5% 1210 SMD
64	4	SW1,SW2, SW3,SW4	SW SLIDE DPDT 6VDC 0.3A PCMNT
65	8	TP1,TP2,TP3,TP4,TP5,TP6,TP7,TP8	TERM SOLDER TURRET .094" hole
66	2	U1,U3	IC MOSFET DRVR 12V 40A 56-QFN
67	1	U2	LTC3860 - Dual, Multiphase Step-Down Voltage Mode DC/DC Controller with Current Sharing
68	1	U4	LTM4620 - Dual 13A Or Single 26A DC/DC μ Module Regulator
69	1	U5	LTC4365 - UV, OV and Reverse Supply Protection Controller
70	1	U6	LTC6902 - Multiphase Oscillator with Spread Spectrum Frequency Modulation
71	1	U7	IC EEPROM 2KBIT 400KHZ 8TSSOP
72	1	U8	LT1763 - 500mA, Low Noise, LDO Micropower Regulators
HARDWARE-FOR DEMO BOARD ONLY			
73	3	SHUNT1, SHUNT2, SHUNT3	CONN SHUNT 2MM 2POS
74	4	MH1, MH2, MH3, MH4	STAND-OFF NYLON 1/2" SNAP IN

Linear Technology Corporation

LTC2974CUP

Bill Of Materials
Demo Bd. # 1810A-4
QTY - 200
7/26/2011

Manufacturer/Part #
Panasonic ERJ-3EKF1001V
Panasonic - ECG ERJ-3EKF1000V
TDK Corporation C1608X7R1E104K
Murata GRM188R71H332KA01D
Murata GRM188R71H332KA01D
AVX Corp - 0603YD224KAT2A
ON Semi - MMBT3906WT1G
Panasonic - ECG ERJ-3EKF4702V
Vishay CRCW060368K0FKEA
Panasonic - ECG ERJ-3EKF1803V
Panasonic - ECG ERJ-3EKF2203V
AVX 06033D105KAT2A
Murata - GRM21BR61C106KE15L
NIC NMC0603X7R102K50TRPF
Murata GRM188R71C223KA01D
Taiyo Yuden LMK107BJ475KA-T
AVX 0603ZD474MAT2A
TDK Corporation C3225X5R0J476M
Murata GRM188C2A330JA01D
Murata Electronics GRM31CR61E106KA12L
TDK Corporation C3225X5R0J107M
Sanyo 6TPF330M9L
AVX Corporation 1206YD226KAT2A
Murata GRM188R71C103KA01D
Nichicon PLV1D221MDL1TD
Mill Max 2308-2-00-80-00-00-07-0
3M 951103-8622-AR
MOLEX 90122-0785
Keystone Electronics 575-4
Vishay/Dale IHLP2020CZER4R7M11
Panasonic - SSG LN1371SGTRP
CUI Inc PJ-002A
Vishay/Siliconix SI1988DH-T1-E3
Vishay/Siliconix SI4946BEY-T1-E3
ON Semi - MMBT3906WT1G
Panasonic - ECG ERJ-3GEYJ106V
Panasonic - ECG ERJ-3EKF3300V
Panasonic ERJ-3EKF1001V
Panasonic - ECG ERJ-3GEYJ2R2V
Panasonic - ECG ERJ-3EKF10R0V
NIC NRC06F2002TRF
Panasonic - ECG ERJ-3EKF6200V

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Demo Bd. # 1810A-4
QTY - 200
7/26/2011

Panasonic - ECG ERJ-3EKF7502V
Panasonic - ECG ERJ-3EKF1002V
Panasonic - ECG ERJ-3EKF2260V
Yageo RC0603FR-0713K3L
Vishay CRCW060340K2FKEA
Panasonic - ECG ERJ-3GEY0R00V
Do Not Install!
Panasonic - ECG ERJ-3EKF1203V
Yageo RT0603DRD0760K4L
Panasonic - ECG ERJ-3EKF9102V
NIC NRC06F1004TRF
NIC NRC06F3002TRF
Panasonic - ECG ERJ-M1WSF20MU
Vishay CRCW0603150FKFEA
NIC NRC06F1332TRF
Panasonic - ECG ERJ-3EKF5491V
Panasonic - ECG ERJ-3EKF1002V
Vishay/Dale CRCW121018R0JNEA
Vishay/Dale CRCW121015R0JNEA
Vishay/Dale CRCW121012R0JNEA
Vishay/Dale CRCW121010R0JNEA
C&K Components JS202011CQN
Mill Max 2501-2-00-80-00-00-07-0
Renesas - R2J20602NP#G3
Linear Tech. LTC3860EUH#PBF
Linear Tech. LTM4620
Linear Tech. LTC4365CTS8
Linear Tech. LTC6902CMS
Microchip Technology 24LC025-I/ST
Linear Tech. LT1763CS8-5
SAMTEC 2SN-BK-G
KEystone 8833