

Designator	Quantity	Manufacturer	Part Number	Description	DigiKey Part Number	Unit Price	Total
C1,C3,C4,C5	4	Kemet	T491B106M010A	10µF Molded Tantalum Capacitors 10V 1411 (3528 Metric) 3.5Ohm	399-3707-1-ND		0.51
C2	1	Murata	GRM2165C2A102JA01D	1000pF ±5% 100V Ceramic Capacitor COG, NP0 0805 (2012 Metric)	490-6445-1-ND		0.17
C6,C10,C11,C12,C13,C14	6	Murata	GCM21BR72A104KA37K	0.1µF ±10% 100V Ceramic Capacitor X7R 0805 (2012 Metric)	490-8051-1-ND		0.36
C7	1	Murata	GCM21BR71H474KA55L	0.47µF ±10% 50V Ceramic Capacitor X7R 0805 (2012 Metric)	490-4788-1-ND		0.39
C8,C9	2	Murata	GQM2195C1H220JB01D	22pF ±5% 50V Ceramic Capacitor COG, NP0 0805 (2012 Metric)	490-3608-1-ND		0.33
D1,D3,D5,D7	4	STMicroelectronics	STPS0560Z	Diode Schottky 60V 500mA Surface Mount SOD-123	497-3787-1-ND		0.47
D2,D11	2	Vishay	MMSZ4703-E3-08	Diode, Zener, 16V, 500mW, SOD123	MMSZ4703-E3-08CT-ND		
D4	1	Vishay	MMSZ4702T1G	Diode, Zener, 15V, 500mW, SOD123	MMSZ4702T1GOSCT-ND		
D10,D8	2	Lite-On Inc	LTST-C150GKT	LED Green/Clear 1206 SMD	160-1169-1-ND		
D6,D9	2	Lite-On Inc	LTST-C150EKT	LED Red/Clear 1206 SMD	160-1168-1-ND		
Q1	1	Diodes Inc	2N7002K-7	MOSFET N-Chan 60V 0.38A SOT23-3	2N7002K-7DICT-ND		
Q10	1	ON Semiconductor	PZT651T1G	NPN Transistor, 60V, 2A SOT223	PZT651T1GOSCT-ND		
Q2	1	Diodes Inc	BSS84DW-7-F	Dual P-FET 50V 0.13A SC70-6	BSS84DW-FDICT-ND		
Q3	1	Diodes Inc	BC817-40Q-7-F	Trans NPN 45V 500mA SOT23	BC817-40Q-7-FDICT-ND		
Q4,Q5	2	Infineon Technologies	IRFR7446TRPBF	MOSFET N-CH 40V 56A DPAK	IRFR7446TRPBFCT-ND		
Q6	1	Diodes Inc	BC807-40Q-7-F	Trans PNP 45V 500mA SOT23	BC807-40Q-7-FDICT-ND		
Q7,Q8	2	International Rectifier	IRF7469TRPBF	MOSFET N-Chan 40V 9A 8SOIC	IRF7469PBFCT-ND		
Q9	1	Diodes Inc	BSS8402-DW-7-F	P-FET/N-FET 60V/50V SC70-6	BSS8402DW-FDICT-ND		
R1,R2,R3,R4,R5,R6	6	Rohm Semiconductor	ESR18EZPJ430	430Ohm 0.5W 1206 Resistor	RHM43ICT-ND		
R14,R21,R22	3			Res 200K Ohm 5% 1/8W 0805			
R15,R36	2			Res 100K Ohm 5% 1/8W 0805			
R16,R17,R18	3			Res 200 Ohm 5% 1/8W 0805			
R19	1	Stackpole Electronics	CSRN2010FKR100	Res 0.1 Ohm 1% 1W 2010	CSRN2010FKR100CT-ND		
R20,R29,R30,R43,R48	5	Stackpole Electronics	RMCF0805FT1M00	Res 1M Ohm 1% 1/8W 0805	RMCF0805FT1M00CT-ND		
R23	1	Stackpole Electronics	RNCP1206FTD499R	Res 499 Ohm 1% 1/2W 1206	RNCP1206FTD499RCT-ND		
R24	1			Res 10K Ohm 5% 1/8W 0805			
R25,R26,R44,R45	4			Res 820 Ohm 5% 1/8W 0805			
R27	1	Stackpole Electronics	RMCF0805FT1M80	Res 1.8M Ohm 1% 1/8W 0805	RMCF0805FT1M80CT-ND		
R28	1	Stackpole Electronics	RMCF0805FT1K00	Res 1K Ohm 1% 1/8W 0805	RMCF0805FT1K00CT-ND		
R31	1	Stackpole Electronics	RMCF0805FT3K00	Res 3K Ohm 1% 1/8W 0805	RMCF0805FT3K00CT-ND		
R32	1	Stackpole Electronics	CSRN2010FK10L0CT	Res 0.01 Ohm 1% 1W 2010	CSRN2010FK10L0CT-ND		
R33,R50	2			Res 100 Ohm 5% 1/8W 0805			
R34	1			Res 47 Ohm 5% 1/8W 0805			
R35,R46,R47	3			Res 4.7K Ohm 5% 1/8W 0805			
R37	1			Res 365K Ohm 5% 1/8W 0805			
R38	1	Stackpole Electronics	RMCF0805FT1M20	Res 1.2M Ohm 1% 1/8W 0805	RMCF0805FT1M20CT-ND		
R39	1	Stackpole Electronics	RMCF0805FT82K0	Res 82K Ohm 1% 1/8W 0805	RMCF0805FT82K0CT-ND		
R40	1			Res 47K Ohm 5% 1/8W 0805			
R41	1			Res 5.1K Ohm 5% 1/8W 0805			
R42	1	Stackpole Electronics	RMCF0805FT46K4	Res 46.4K Ohm 1% 1/8W 0805	RMCF0805FT46K4CT-ND		
R49	1			Res 1K Ohm 5% 1/8W 0805			
R7,R8,R9,R10,R11,R12,R13	7	Stackpole Electronics	RMCF0805JT20R0	Res 20 Ohm 5% 1/8W 0805	RMCF0805JT20R0CT-ND		
U1	1	Intersil	ISL94208IRZ	4- to 6-Cell Li-ion Battery Management Analog Front-End	ISL94208IRZ-ND		6.33
U2	1	Atmel	ATMEGA328P-AU	AVR® ATmega Microcontroller IC 8-Bit 20MHz 32KB	ATMEGA328P-AU-ND		2.07
U3	1	Intersil	ISL28214FBZ	General Purpose Amplifier 2 Circuit Rail-to-Rail 8-SOIC	ISL28214FBZ-ND		1.42
Y1	1	Abracon LLC	ABM3B-16.000MHZ-B2-T	16MHz ±20ppm Crystal 18pF 50 Ohms 4-SMD	535-9122-1-ND		0.63
J1	1	JST	S2B-PH-SM4	Conn Header SMD R/A 2POS SMD	455-1749-1-ND		
J4	1	Metz Connect GMBH	PM20206VBNN	Conn Header SMD 6POS 2.54MM	1849-1036-ND		
J5	1	Molex, Inc	15910060	Conn Header SMD 6POS 2.54MM	WM17457-ND		

Total Parts

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