

BatteryMonitor Parts List

Qty	Value	Device	Part ID	Source	Part No.
Resistors					
1	0R	RESISTOR0805	R18	Digikey	RMCF0805ZT0R00CT-ND
2	R005 1%	RESISTOR2512	R1, R2	Digikey	MCS3264R005FERCT-ND
1	71R5 1%	RESISTOR0805	R10	Digikey	RHM71.5CRCT-ND
2	100 1%	RESISTOR0603	R3, R4	Digikey	RMCF0603FT100RCT-ND
1	249R 1%	RESISTOR0805	R8	Digikey	RMCF0805FT249RCT-ND
2	1k0 1%	RESISTOR0805	R24,R33	Digikey	RMCF0805FT1K00CT-ND
1	1k91 1%	RESISTOR0805	R6	Digikey	RHM1.91KCRCT-ND
1	3k3	RESISTOR1206	R30	Digikey	RMCF1206JT3K30CT-ND
2	3k3	RESISTOR0805	R23,R28	Digikey	RMCF0805FT3K92CT-ND
1	3k92 1%	RESISTOR0805	R9	Digikey	RMCF0805FT3K92CT-ND
3	7k32 1%	RESISTOR0805	R13,R26,R27	Digikey	RMCF0805FT7K32CT-ND
1	10k	RESISTOR1206	R21	Digikey	RMCF1206JT10K0CT-ND
1	17k4 1%	RESISTOR0805	R7	Digikey	RHM845KCRCT-ND
2	20k 1%	RESISTOR0805	R14,R17	Digikey	RMCF0805FT33K2CT-ND
1	22k	RESISTOR1206	R22	Digikey	RMCF1206JT22K0CT-ND
2	52k3 1%	RESISTOR0805	R25,R32	Digikey	RMCF0805FT17K4CT-ND
1	100k 1%	RESISTOR0805	R16	Digikey	RMCF0805FT100KCT-ND
1	158k 1%	RESISTOR0805	R5	Digikey	RHM158KCRCT-ND
4	330k	RESISTOR0805	R15,R20,R29,R31	Digikey	RMCF0805JT330KCT-ND
2	750k 1%	RESISTOR0805	R12,R34	Digikey	RMCF0805FT750KCT-ND
2	2M0 1%	RESISTOR0805	R11,R19	Digikey	RMCF0805FT2M00CT-ND
34 Resistors		20 Values			
Capacitors					
1	100pf 50V	CAP_NONPOLARIZED0603	C17	Digikey	445-1281-1-ND
1	4.7nf 50V	CAP_NONPOLARIZED0603	C16	Digikey	490-1506-1-ND
4	0.1uF 50V	CAP_NONPOLARIZED0603	C4, C6, C9,C13	Digikey	490-1666-1-ND
2	0.22uF 25V	CAP_NONPOLARIZED0603	C10,C14	Digikey	709-1156-1-ND
3	1uF 35V	CAP_NONPOLARIZED0603	C1, C2,C18	Digikey	587-1437-1-ND
6	2.2uF 6.3V	CAP_NONPOLARIZED0603	C3,C5, C7,C11,C12,C15	Digikey	490-1552-1-ND
1	10uF 6.3V	CAP_NONPOLARIZED0805	C8	Digikey	445-1363-1-ND
18 Capacitors		7 Values			
Diodes & Transistors					
1	BC847	NPN_SOT23-3	Q1	Digikey	568-4867-1-ND
1	DMP3098	PCH_MOSFET_SOT23-3W	Q2	Digikey	DMP3098LDICT-ND
2	MMDL301T1	DIODE_SCHOTTKYSOD323	D1, D2	Digikey	RB521S30T1GOSCT-ND
4 Devices		3 Values			
IC's					
1	LTC2054	IC_LTC2054_OP-AMP_LO_I_CHOPPER	U1	LTI	LTC2054HS5#PBF
1	LT3014	IC_LT3014_LDO_VREGSOT23-5	U2	LTI	LT3014ES#PB5
1	MCP1541	IC_3_TERM_VREG_SOT23-3	U3	Digikey	MCP1541T-I/TTCT-ND
1	20X2	IC_PICAXE_20X2_SO-20_WIDE	U4	HVV	20X2 SO
1	24AA02	IC_I2C_EEPROM_24AA02_SOT23-5	U5	Digikey	24AA02T-I/OTCT-ND
1	UM5K1N	NCH_MOSFET_DUAL_COMMON_SOURCE_SC70-5	U6	Digikey	UM5K1NCT-ND
6 IC's		6 Values			
Other Hardware					
1	LCD Display	Newhaven_NHD-C0216CIZLCD	DISP1	Digikey	NHD-C0216CIZ-FSW-FBW-3V3-ND
2		Double sided poster mounting tape (display hold down)		Staples	Scotch 8220 40 + 109C Poster Tape
2	OmronB3W	9mm Tactile switch	S1, S2	eBay	ordred 250 to save \$ Club pays for 50
1	Prog	3 pin program header	JP1	DipMicro	DE1563
1	Enclosure	Hammond 1551LBK & 2 black screws		Digikey	HM909-ND
1	Hardware	#2 3/16 thread forming mounting screw		Fastenal	ordered 200
2	PowerPole	1327 red and black housing		EMRG	Rick VE3IHI
2	Hardware	Spring Pins for PowerPole connectors		OF	Ottawa Fastner
4	10cm	Tie Wraps		Dayton	
2	6" 12ga wire	Black Silicone with PowerPole 261G2-LPBK contacts		eBay	Deans Wet Noodle
2	6" 12ga wire	Red Silicone with PowerPole 261G2-LPBK contacts		eBay	Deans Wet Noodle
3	14 ga wire	bare Cu - one formed 2 cut to size (solder to board)			Getchell's bin
1	0.25mm	fine solder for SMD work			Getchell's bin
1	PCB	Printed Wiring Board			Batch PCB
1	1k5	Quarter watt axial lead resistor for functional verification test three			Getchell's bin
26 Pieces					
Programming Cable					
1	3 pin header	Female header for programming cable		Taiwan	5x 40pin header to be cut
1	phone jack	3.5mm stereo phone jack for porgramming cable adapter		Taiwan	AdamDong78
1	3cm	1cm diameter Heatshrink for the programming cable		Tyco	RNF038K-ND
1	3cm	4mm diameter Heatshrink for the programming cable		Qualtek	Q52X316B-ND
4 Pieces					