



Qty	Part Reference	Description	Manufacturer Name	Manufacturer Part Number	Comments
3	C15 C16 C17	Cap 0.1uF 10V Ceramic X5R 0402	PANASONIC	ECJ-0EB1A104K	
1	C22	CAP CERAMIC 22PF 50V NP0 0603	KEMET	C0603C220J5GACTU	
3	C5 C6 C9	Capacitor Ceramic 2200PF 50V 20% X7R 0603	Murata Erie	GRM188R71H222MA01D	
6	C2 C3 C4 C8 C10 C14	Capacitor, 0.1uF, 16V, 10%, X7R, 0603	Panasonic	ECJ-1VB1C104K	
5	C11 C12 C13 C19 C20	Capacitor, 1.0uF, 16VDC, 10%, X5R, 0603	Panasonic	ECJ-1VB1C105K	
1	C1	Capacitor, 10uF, 25VDC, 10%, Tantalum, Low ESR	AVX	TPSC106K025R0500	
3	C7 C18 C21	Capacitor, Low ESR, 33uF, 10VDC, 10%, Ta	Kemet	T494B336K010AS	
1	U2	Clock osc 32.768kHz 5+/-23PPM smd	EPSON	SG-3030JC 32.7680KB3	
1	P4	Conn Header 8 Pos 2MM RT Ang Gold	Molex	87833-0820	
1	P3	Conn Term Block 2Pos 5MM PCB	PHOENIX CONTACT	1729018	
1	P2	Connector USB Type Mini-B	Molex	54819-0588	
4	D1 D2 D4 D5	Diode Schottky 40V 1A SMB	Internatnl Rectifier	MBRS140TR	
1	U12	EMC2104	SMSC	EMC2104	
1	FAN1	Fan Assy Sunon 5V 40mm 160mA w/3 Pin Molex	Sunon	KDE0504PFB1 MS.M	
1	FB1	Ferrite Bead, 120 Ohm, 0.5A, 0.1DCR, 0603	Panasonic	EXC-3BP121H	
1	JP9	Header, 1 x 2, 0.1 Inch, Vertical	Samtec	TSW-102-07-L-S	
2	P1 P5	Header, 1 x 3, 0.1 Inch, Latching, Vert	AMP	640456-3	
8	JP1 JP2 JP3 JP7 JP10 JP11 JP15 JP18	Header, 1 x 3, 0.1 Inch, Vertical	AMP	4-103747-0	
2	J2 J3	Header, 1 x 4, 0.1 Inch, Latching, Vert	AMP	640456-4	
6	JP5 JP6 JP8 JP14 JP16 JP17	Header, 2 x 2, 0.1 Inch, Vertical	Samtec	TSW-102-07-L-D	
1	JP13	Header, 2 x 4, 0.1 Inch, Vertical	Samtec	TSW-104-07-L-D	
1	U11	IC Serial EEPROM 2K 1.8V 8DIP AT24C02	ATMEL	AT24C02-10PI-1.8	
1	U6	IC USB MCU 8051 w/I2C and SPI C8051F320	Silicon Labs	C8051F320-GQ	
4	U3 U8 U9 U10	Inverter Single LVC SOT23-5 SN74LVC1G04	Texas Instruments	SN74LVC1G04DBVR	
1	D3	LED Red Clear 0603 Smt	LITEON	LTST-C190CKT	
4	LED1 LED8 LED9 LED10	LED Red/Green SMT	Lumex	SSL-LXA3025IGC-TR	
3	LED4 LED5 LED6	LED SMT Green	Stanley Electric	BG1111C-TR	
1	F4	Polyswitch 0.50A Hold 1.0A Trip SMD	RAYCHEM	SMD050-2	
1	R65	POT 10K 1/4" SQ Cermet SL MT	BOURNS	3266W-1-103	
11	R3 R8 R9 R10 R11 R15 R22 R30 R31 R63 R64	Resistor 10.0Kohm 0.1% 25ppm TC 0603	Susumo	RR0816P-103-B-T5	
4	R12 R66 R67 R68	Resistor 100 ohm 1% 1/10W 0603	Yageo America	RC0603JR-07100RL	
3	R43 R44 R46	Resistor 100K 1% 1/10W 0603	Yageo America	RC0603JR-07100KL	
1	R1	Resistor 22 OHM 1/10W 5% 0603 SMD	Yageo America	9C06031A22R0JLHFT	
1	R13	Resistor 24 OHM Metal Film 2W 5%	BC COMPONENTS	5083NW24R00J12AFXBC	
9	R16 R20 R21 R45 R48 R51 R52 R55 R56	Resistor 470 ohm 1% 1/10W 0603	Yageo America	RC0603JR-07470RL	
1	R35	Resistor Zero Ohm 1/4W 5% 1206	YAGEO	9C12063A0R00JLHFT	
3	R27 R28 R29	Resistor, 1.00K, 1%, 1/10W, 0603	Yageo America	RC0603FR-071KL	
3	R37 R39 R41	Resistor, 1.21K, 1%, 1/16W, 0603	PANASONIC	ERJ-3EKF1211V	
5	R17 R50 R54 R57 R58	Resistor, 10.0K, 1%, 1/10W, 0603	YAGEO	RC0603FR-0710KL	
3	R32 R33 R34	Resistor, 301, 1%, 1/10W, 0603	Yageo America	RC0603FR-07301RL	



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1	R5	Resistor, 33K, 1%, 1/10W, 0603	Yageo America	9C06031A3302FKHFT	
5	R104 R204 R304 R404 R504	Resistor, Zero, 0.1W, 0402	YAGEO	RC0402JR-070RL	
1	SW1	Switch, DIP 3 position Thru-hole	CTS	206-3	
	TP1 TP2 TP3 TP4 TP5 TP6 TP7 TP8 TP10 TP11				
14	TP12 TP15 TP16 TP17	Test Point	Keystone	5015	
3	R36 R38 R40	THERMISTOR NTC 10K OHM 1% 0603	PANASONIC	ERT-J1VG103FA	
5	Q1 Q2 Q3 Q4 Q7	Transistor NPN SOT-23 MMBT3904	Fairchild	MMBT3904	
1	Q9	Transistor PNP SOT-23 MMBT3906	Infineon	MMBT3906LT1XT	