

Qty	Part Reference	Description	Manufacturer Name	Manufacturer Part Number	Comments
	DWG	DWG-10001-RevA Assembly Instructions			
	SCH	SCH-7038-A1 EMC1002/1033 EVB			
1	PCB	EVB-7038-A01 Evaluation Bd		AZ7038-A01	
1	C1	Capacitor Ceramic 2200PF 50V 20% X7R 0603	Murata Erie	GRM188R71H222MA01D	
3	C2 C7 C9	Capacitor, 0.1uF, 16V, 10%, X7R, 0603	Panasonic	ECJ-1VB1C104K	
3	C8 C10 C11	Capacitor, 1.0uF, 16VDC, 10%, X5R, 0603	Panasonic	ECJ-1VB1C105K	
1	C3	Capacitor, 10uF, 6.3VDC, 20%, X5R, 0805	Panasonic	ECJ-2FB0J106M	
1	J3	Conn Header 8 Pos 2MM RT Ang Gold	Molex	87333-0820	
1	P6	Connector USB Type Mini-AB	Molex	54819-0578	
1	FB2	Ferrite Bead, 120 Ohm, 0.5A, 0.1DCR, 0603	Panasonic	EXC-3BP121H	
1	JP1	Header, 1 x 2, 0.1 inch, Vertical	Sager	TSW-102-07-L-S	Install 2 pin header @ pins 1 and 2
1	P2	Header, 1 x 3, 0.1 Inch, Latching, Vert	AMP	640456-3	
1	JP4	Header, 2 x 4, 0.1 Inch, Vertical	Sager	TSW-104-07-L-D	DNP JP4
1	U1	IC Temp Sensor EMC1002 MSOP-8	SMSC		
1	U6	IC USB MCU 8051 w/I2C and SPI	Silicon Labs	C8051F320R	
2	U2 U3	Inverter Single LVC SOT23-5	Texas Instruments	SN74LVC1G04DBVR	
2	LED1 LED2	LED Red/Green SMT	Lumex	SSL-LXA3025IGC-TR	
3	LED6 LED7 LED8	LED SMT Green	Stanley Electric	BG1111C-TR	
1	P1	Plug, Right Angle, SMT, 4pos	Hirose	MQ172X-4PA	DNP P1
1	R20	Resistor 100 ohm 1% 1/10W 0603	Yageo America	9C06031A1000JLHFT	
4	R7 R8 R15 R16	Resistor 470 ohm 1% 1/10W 0603	Yageo America	9C06031A4700JLHFT	
2	R4 R6	Resistor 820 OHM 1/10W 1% 0603 SMD	Yageo America	9C06031A8200FKHFT	DNP R6
3	R22 R27 R29	Resistor, 1.00K, 1%, 1/16W, 0603	Yageo America	9C06031A1001FKHFT	
1	R3	Resistor, 1.50K, 1%, 1/16W, 0603	Yageo America	9C06031A1501FKHFT	
3	R12 R13 R14	Resistor, 10.0K, 1%, 1/16W, 0603	Panasonic	ERJ-3EKF1002V	
1	R2	Resistor, 20K, 1%, 1/16W, 0603	Panasonic	ERJ-3EKF2002V	
3	R21 R28 R30	Resistor, 301, 1%, 1/16W, 0603	Yageo America	9C06031A3010FKHFT	
1	R1	Resistor, 7.5K, 1%, 1/16W, 0603	Yageo America	9C06031A7501FKHFT	DNP R1
2	R5 R31	Resistor, Zero, 0.1W, 0603	Yageo America	9C06031A0R00JLHFT	
5	TP1-5	Test Point	Keystone	5015	DNP TP1, 2, 4 and 5
2	Q2 Q3	Transistor NPN SOT-23 MMBT3904	Fairchild	MMBT3904	DNP Q3
1	Q1	Transistor PNP SOT-23 BC807-16	Diodes Inc	BC807-16-7	