
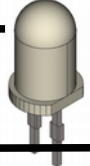
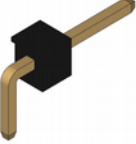

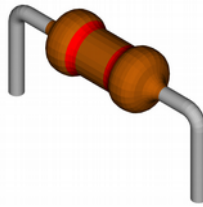
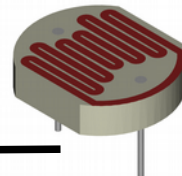
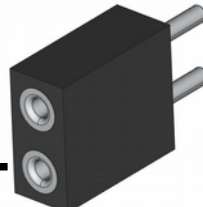



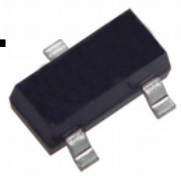

MAP2 Bill of Materials – Through Hole Version

Reference	Value	Description	Qty	What it looks like
C1	100uF	Capacitor, Electrolytic, Aluminum, 100uF, 16V, RADIAL 6.3mm dia.	1	
C2, C3	47uF	Capacitor, Electrolytic, Aluminum, 47uF, 16V, RADIAL 6.3mm dia.	2	
D1	LED	LED, Round, Domed top, 5mm, White Clear,	1	 
P1,P2,P4,P5	5V / GND	Header, Male, Right Angle, Strips of 20 pins, Require 4 for each board	4	
Q1	2N2222	Transistor, NPN, 2N2222, TO-92	1	
R1	2k2	Resistor Carbon, 5%, 1/8W, 2k2	1	
R2	1M	Resistor Carbon, 5%, 1/8W, 1M	1	
R3	3k3	Resistor Carbon, 5%, 1/8W, 3k3	1	
R4	270E	Resistor Carbon, 5%, 1/8W, 270R	1	
R5	LDR	Photo Resistor, LDR, 5mm (0.2") dia	1	 
--	--	Header, Female, Straight, 2 pin	2	

**NOTES :**

For C1, C2, C3 Diameter 6.3mm MAX is important. Smaller diameter is OK. Lower height (Shorter) size is preferred. Voltage can be 10V and above

MAP2 Bill of Materials – SMD Version

Reference	Value	Description	Qty	What it looks like
C1	100uF	Capacitor, Ceramic, 100uF, 6.3V, 1210 SMD	1	
C2, C3	47uF	Capacitor, Ceramic, 47uF, 6.3V, 1210 SMD	2	
Q1	MMBT3904	Transistor, NPN, MMBT3904, SOT-23-3	1	 
R1	2k2	Resistor Carbon, 5%, 1/8W, 2k2, 0805 SMD	1	
R2	1M	Resistor Carbon, 5%, 1/8W, 1M, 0805 SMD	1	
R3	3k3	Resistor Carbon, 5%, 1/8W, 3k3, 0805 SMD	1	
R4	270E	Resistor Carbon, 5%, 1/8W, 270R, 0805 SMD	1	