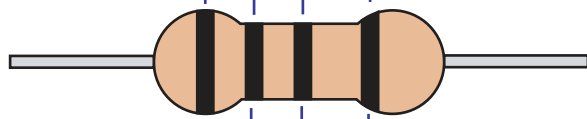


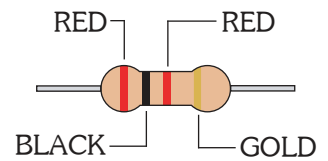
HOW TO READ THE VALUE OF RESISTOR

ROW1 ROW2 ROW3 (Multiplier) ROW4(Tolerance)

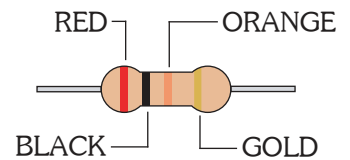


BLACK	0	0	x1	-
BROWN	1	1	x10	± 1%
RED	2	2	x100	± 2%
ORANGE	3	3	x1,000	-
YELLOW	4	4	x10,000	-
GREEN	5	5	x100,000	-
BLUE	6	6	x1,000,000	-
VIOLET	7	7	x10,000,000	-
GRAY	8	8	-	-
WHITE	9	9	-	-
GOLD	-	-	x0.1	± 5%
SILVER	-	-	x0.01	± 10%

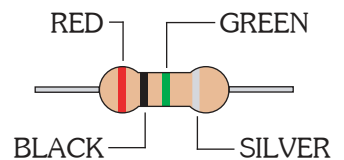
EX: 2KΩ ± 5%



EX: 10KΩ ± 5%



EX: 2MΩ ± 10%



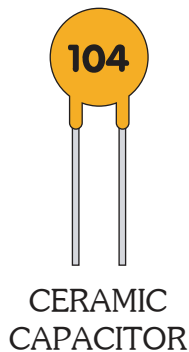
1,000Ω = 1KΩ

10,000Ω = 10KΩ

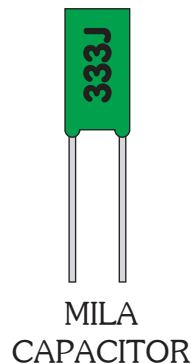
1,000KΩ = 10MΩ

4,700Ω = 4K7Ω

HOW TO READ THE VALUE OF CAPACITOR



104
10 0000 pF
OR
0.1 μF



333J
33 0000 pF ± 5%
OR
0.033 μF ± 5%

DATA CAPACITORS

pF, picoFarads = 10⁻¹² F

nF, nanoFarads = 10⁻⁹ F

μF, microFarads = 10⁻⁶ F

1000 pF = 1 nF

1000 nF = 1 μF

e.g.

4n7 = 4.7nF =

4700pF or 0.0047 μF

3 = 3 pF

15 = 15 pF

101 = 100 pF

681 = 680 pF

102 = 0.001μF

103 = 0.01μF

104 = 0.1μF

105 = 1μF

222 = 0.0022μF

223 = 0.022μF

332 = 0.0033μF

333 = 0.033μF

472 = 0.0047μF

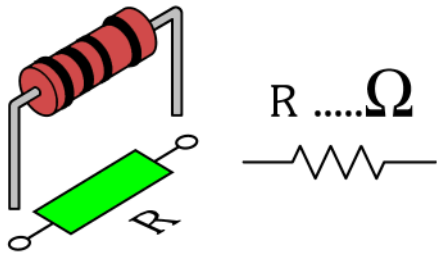
473 = 0.047μF

THE VALUE OF TOLERANCE

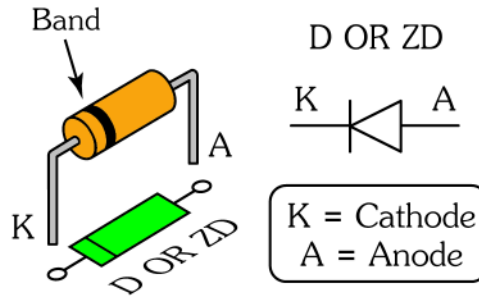
J = ± 5%, K = ± 10%, M = ± 20%

ASSEMBLY INSTRUCTIONS

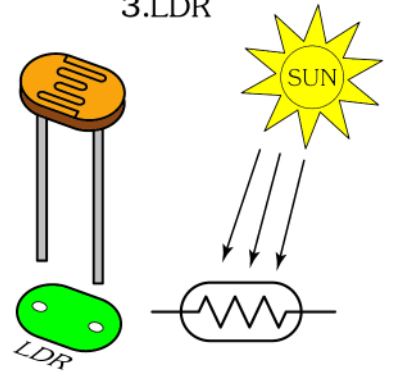
1. RESISTOR



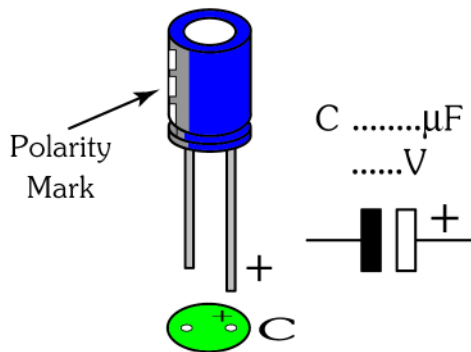
2. DIODE OR ZENER DIODE



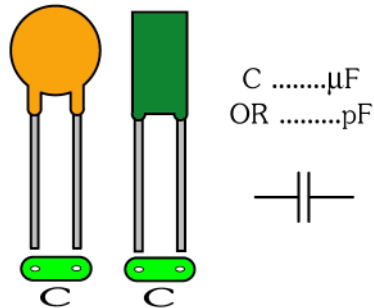
3. LDR



4. ELECTROLYTIC CAPACITOR



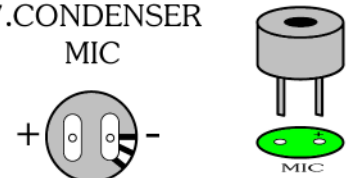
5. CERAMIC AND MILA CAPACITOR



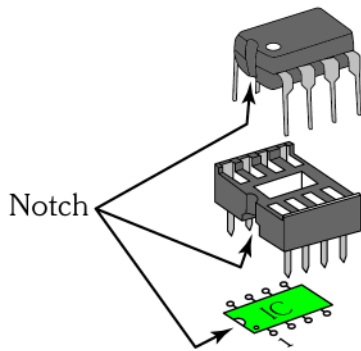
6. PUSH BOTTON SWITCH



7. CONDENSER MIC

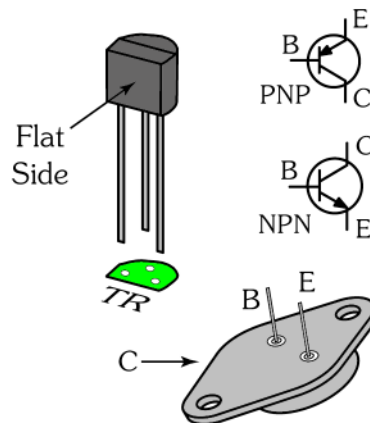


8. INTEGRATED CIRCUIT (IC)

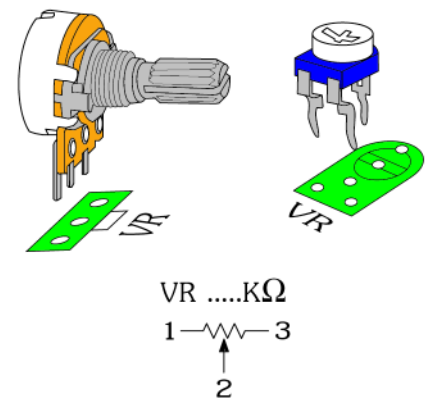


NOTE: WATCH THE POSITION OF THE NOTCH

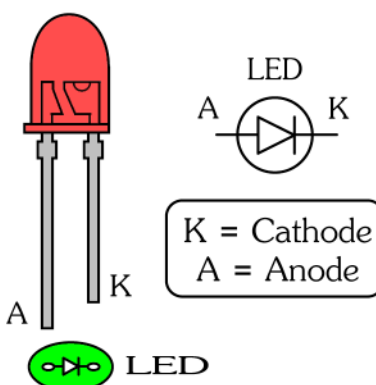
9. TRANSISTOR



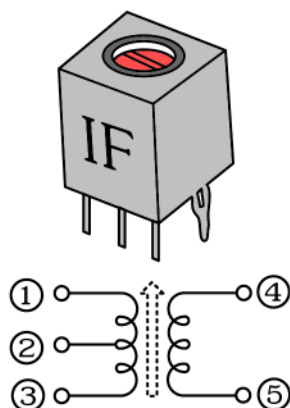
10. POTENTIOMETER



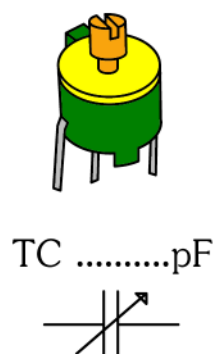
11. LED



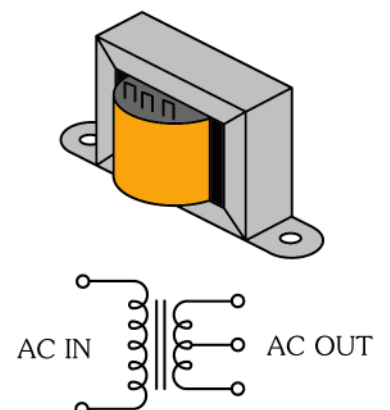
12. IF TANK



13. TIMMER CAPACITOR

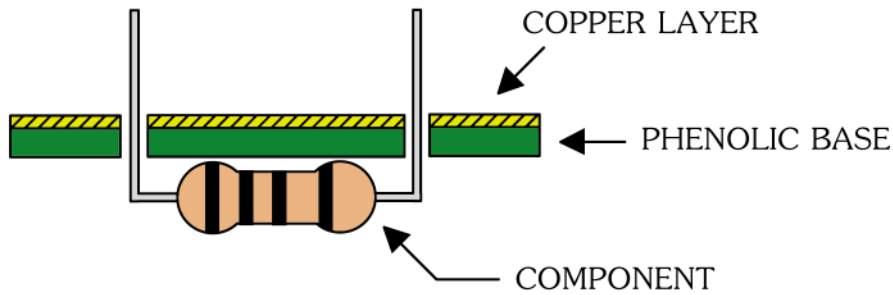


14. TRANSFORMER

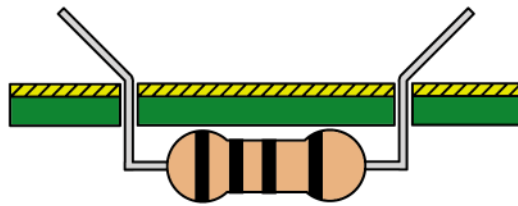


SOLDERING COMPONENTS TO THE PC BOARD

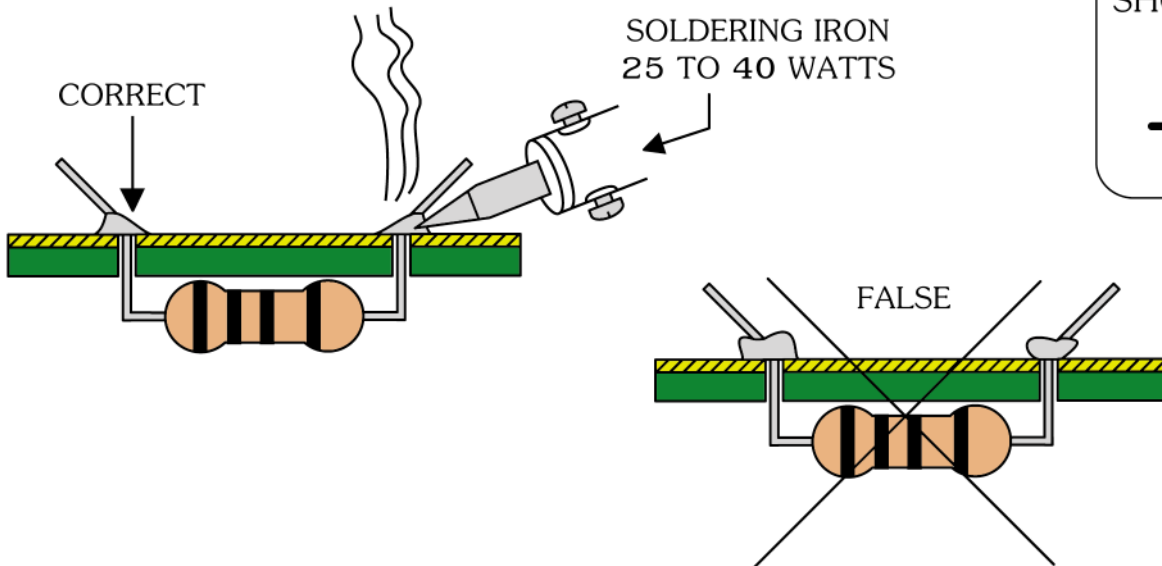
- 1 Mount the components to the PC board.



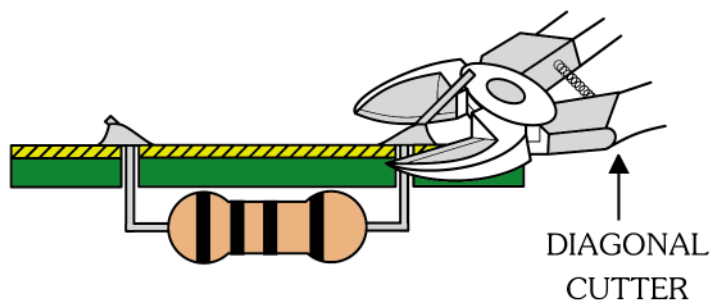
- 2 Bend leads to hold the components.



- 3 Soldering the components and the PC board with the soldering iron and the solder.



- 4 Cut off all leads of the components.



HOW TO INSTALL THE TRANSISTOR WITH SINK

