RESISTOR COLOR CODE

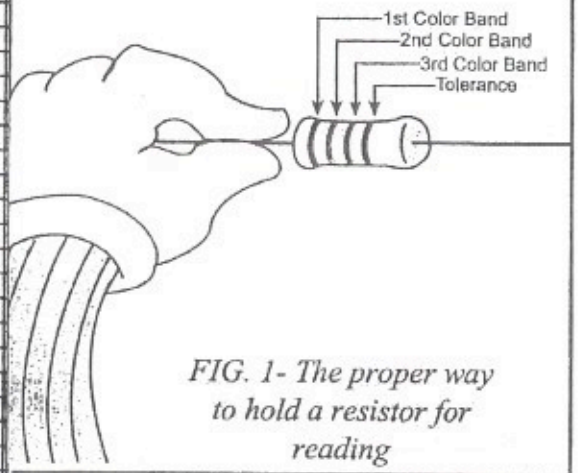

FIG. 1- The proper way to hold a resistor for reading

The resistor color code is a system of resistance value marking using color bands. It is in common use for resistors used in electronics circuits. We have shown the decoding chart below.

To use the color code select a brown, green, orange resistor from the parts package. Hold it in your hand orienting it so the band that is closest to the resistor metal lead is next to your index finger and thumb (see fig. 1).

You should notice that the first color band is brown. Decoding the color brown from the table gives a 1 (see fig. 2). Next look at the 2nd color band and notice that it is green. Decoding the green color from the table gives a number 5 (see fig. 2). The third color band is orange which is the multiplier. Decoding the orange color from the table gives 1,000 for a multiplier (see fig. 2). The value of this resistor is 15K. The fourth band is the tolerance which, in this case, is gold which equals ±5%.

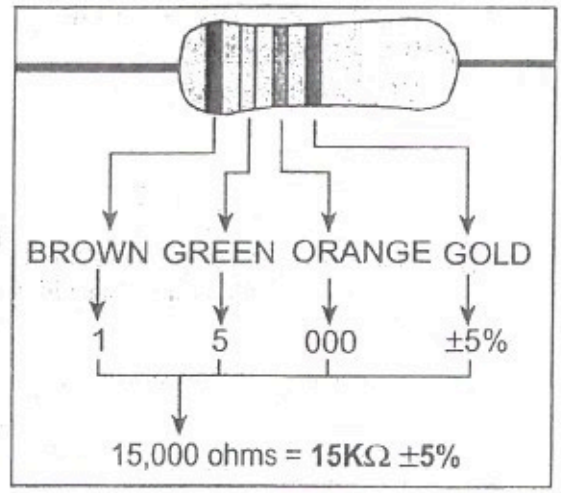

FIG. 3- 15K resistor decoding

RESISTOR COLOR CODE

COLOR	1ST DIGIT	2ND DIGIT	MULTIPLIER
BLACK	0	0	1.
BROWN	1	1	10.
RED	2	2	100
ORANGE	3	3	1,000 (K)
YELLOW	4	4	10,000
GREEN	5	5	100,000.
BLUE	6	6	1,000,000. (M)
VIOLET	7	7	10,000,000.
GRAY	8	8	100,000,000.
WHITE	9	9	1,000,000,000.

TOLERANCE: NO COLOR 20%, SILVER 10%, AND GOLD ±5%.

FIG. 2 - Resistor Decoding Chart