ABBREVIATIONS

V = Volts
A = Amperes
Ω = Ohms
W = Watts
P = Power
I = Current
F = Farad
R = Resistance

OHM'S LAW: V = IR
P = VI

10% TOLERANCE FOURTH BAND INDICATES TOLERANCE (ACCURACY):

White 9 9 x 1,000,000
Gray 7 7 x 1,000,000
Orange 5 5 x 100,000
Yellow 4 4 x 10,000
Green 3 3 x 1,000
Red 2 2 x 100
Brown 1 1 x 10
Black 0 0 x 1

RESISTOR COLOR CODE

CIRCUIT SYMBOLS