

Resistor Color Code

BODY-DOT SYSTEM

1st Significant Figure
2nd Significant Figure
Multiplier

MINIATURE RESISTOR CODE

1st Significant Figure
2nd Significant Figure
Multiplier

BODY-END-DOT SYSTEM

1st Significant Figure
Tolerance
Multiplier

BODY-END BAND SYSTEM

1st Significant Figure
Tolerance
Multiplier

DOT-BAND SYSTEM

Multiplier
Tolerance
Multiplier
1st Significant Figure
2nd Significant Figure

BODY-DOT SYSTEM

1st Significant Figure
2nd Significant Figure
Multiplier

DASH-BAND SYSTEM

Multiplier
2nd Significant Figure
1st Significant Figure

COLOR BAND SYSTEM

Multiplier
Tolerance
Multiplier
Tolerance
Failure Rate
2nd Significant Figure
1st Significant Figure

Multiplier
Tolerance
Multiplier
Tolerance
2nd Significant Figure
1st Significant Figure
3rd Significant Figure

Resistors With Black Body Color Are Composition, Noninsulated.
Resistors With Colored Bodies Are Composition Insulated.
Wirewound Resistors Have The 1st Digit Color Band Double Width.

RESISTOR COLOR CODE				
COLOR	SIGNIFICANT FIGURES	MULTIPLIER	TOLERANCE	FAILURE RATE*
Black	0	1	-	-
Brown	1	10	±1%	1.0
Red	2	100	±2%	0.1
Orange	3	1000	±3%	0.01
Yellow	4	10,000	±4%	0.001
Green	5	100,000	-	-
Blue	6	1,000,000	-	-
Violet	7	10,000,000	-	-
Gray	8	100,000,000	-	-
White	9	-	-	Solderable*
Gold	-	0.1	±5%	-
Silver	-	0.01	±10%	-
No Color	-	-	±20%	-

*When used on composition resistors, indicates percent failure per 1000 hours. On film resistors, a white fifth band indicates solderable terminal.