

Resistor color codes

Four band resistors (carbon etc.)



First digit

Second digit

x power of 10

Tolerance

Example resistor: 1.5k Ω 5%



0 = Black



1 = Brown



2 = Red



3 = Orange



4 = Yellow



5 = Green



6 = Blue



7 = Violet



8 = Grey



9 = White



Tolerance 10% = Silver or x 0.01 if in "power of 10" position



Tolerance 5% = Gold or x 0.1 if in "power of 10" position

Five or six band resistors (metal film)



First digit

Second digit

Third digit

x power of 10

Tolerance (wider band)

Example resistor: 56.0k Ω 1%

Colors as above, EXCEPT:



Tolerance 2% = Red



Tolerance 1% = Brown