



4 Band Resistor Color Code Calculator

This tool is used to decode information for color banded axial lead resistors. Select the number of bands, then their colors to determine the value and tolerance of the resistors or [view all resistors](#) Digi-Key has to offer. Learn more about [resistors and resistor color codes](#).

Number of Bands:

4 Band

5 Band

6 Band

Select the color of each band on the resistor:

1st Band:

●

 Red

2

2nd Band:

●

 Red

2

Multiplier:

●

 Brown

×10 Ω

Tolerance:

●

 Gold

± 5%

Resistor Value:

220 Ohms 5%

Q

2%, 5%, 10%

4-Band-Code

560k Ω ± 5%

COLOR	1 ST BAND	2 ND BAND	3 RD BAND	MULTIPLIER	TOLERANCE
Black		0	0	1Ω	
Brown	1	1	1	10Ω	± 1% (F)
Red	2	2	2	100Ω	± 2% (G)
Orange	3	3	3	1KΩ	
Yellow	4	4	4	10KΩ	
Green	5	5	5	100KΩ	± 0.5% (D)
Blue	6	6	6	1MΩ	± 0.25% (C)
Violet	7	7	7	10MΩ	± 0.10% (B)
Grey	8	8	8	100MΩ	± 0.05%
White	9	9	9	1GΩ	
Gold				0.1Ω	± 5% (J)
Silver				0.01Ω	± 10% (K)

0.1%, 0.25%, 0.5%, 1%

5-Band-Code

237 Ω ± 1%

Learn more about [resistors and resistor color codes](#).

Build the Hardware