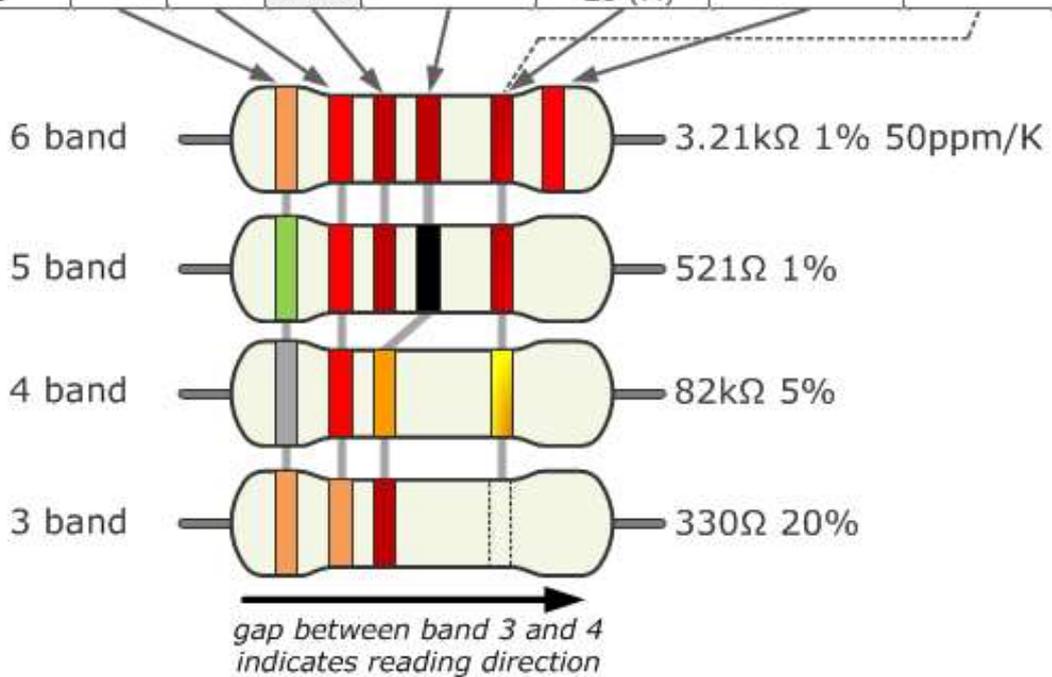




# RESISTOR'S MODERN COLOR CODE CHART

Use this modern color code chart of resistor to find value of 4 color resistors, 5 color resistors and 6 color resistors.

Color	Significant figures			Multiply	Tolerance (%)	Temp. Coeff. (ppm/K)	Fail Rate (%)
black	0	0	0	x 1		250 (U)	
brown	1	1	1	x 10	1 (F)	100 (S)	1
red	2	2	2	x 100	2 (G)	50 (R)	0.1
orange	3	3	3	x 1K		15 (P)	0.01
yellow	4	4	4	x 10K		25 (Q)	0.001
green	5	5	5	x 100K	0.5 (D)	20 (Z)	
blue	6	6	6	x 1M	0.25 (C)	10 (Z)	
violet	7	7	7	x 10M	0.1 (B)	5 (M)	
grey	8	8	8	x 100M	0.05 (A)	1(K)	
white	9	9	9	x 1G			
gold			3th digit only for 5 and 6 bands	x 0.1	5 (J)		
silver				x 0.01	10 (K)		
none					20 (M)		

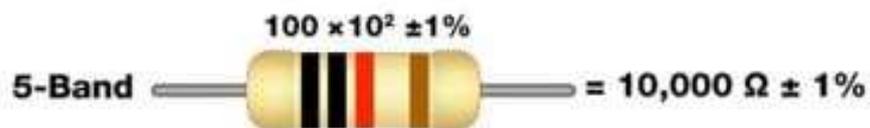
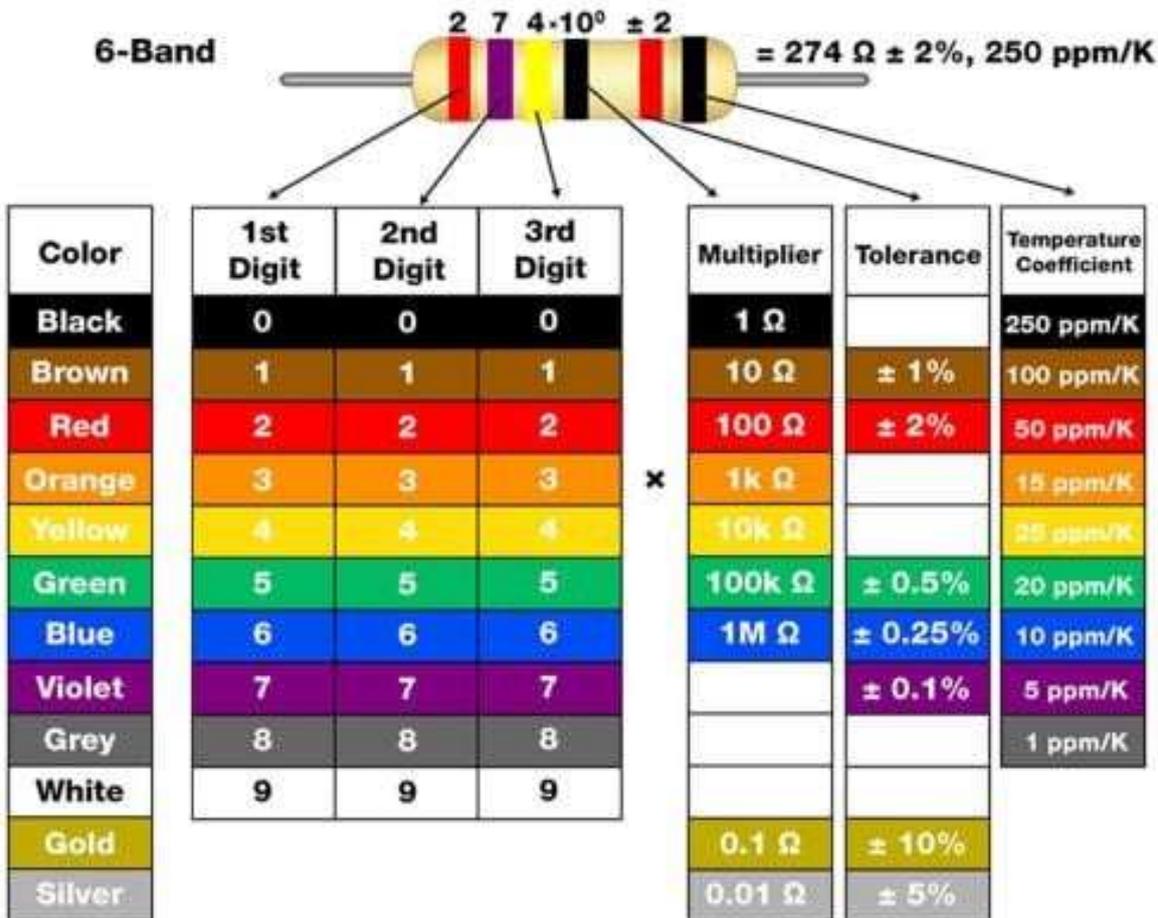


**Temp. Coefficient:** The ppm/K gives the value of parts per million per Kelvin.

**Fail Rate:** The failure rate is related to Military standard resistors. It gives a statistical confidence level of 60% based on life test of resistor at full rated power and temperature, usually with a 10% producer's risk. *This parameter is not important in our syllabus.*

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