RESISTOR COLOR CODE

Color	1st Band	2nd Band	3rd Band	Decimal Multiplier		Tolerance
Black	0	0	0	1	1	
Brown	1	1	1	10	10	± 1 %
Red	2	2	2	100	100	± 2 %
Orange	3	3	3	1K	1,000	
Yellow	4	4	4	10K	10,000	
Green	5	5	5	100K	100,000	
Blue	6	6	6	1M	1,000,000	
Violet	7	7	7	10M	10,000,000	
Gray	8	8	8		100,000,000	
White	9	9	9		1,000,000,000	
Gold					0.1	± 5 %
Silver					0.01	± 10 %
None						± 20 %

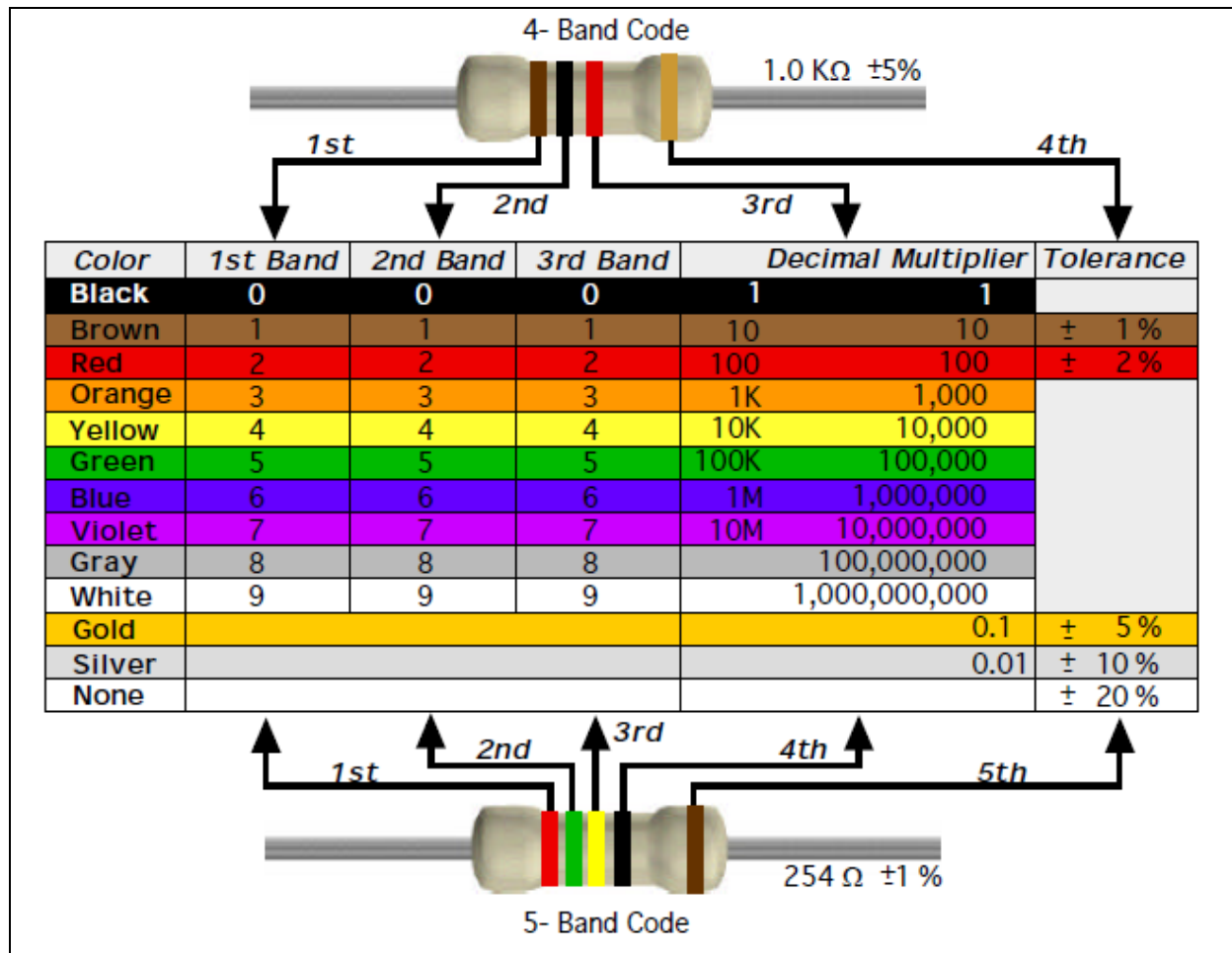**Figure 1.** Resistor color code example 1. [Ref. Blue Point Engineering]

Example: 10 Ω
1 = Brown   0 = Black   x 10^0 = Black   (Brown/Black/Black)

Example: 1 kΩ
1 = Brown   0 = Black   x 10^2 = Red   (Brown/Black/Red)

Example: 3.6 kΩ
3 = Orange   6 = Blue   x 10^2 = Red   (Orange/Blue/Red)

Example: 47 kΩ
4 = Yellow   7 = Violet   x 10^3 = Orange   (Yellow/Violet/Orange)

Example: 1 MΩ
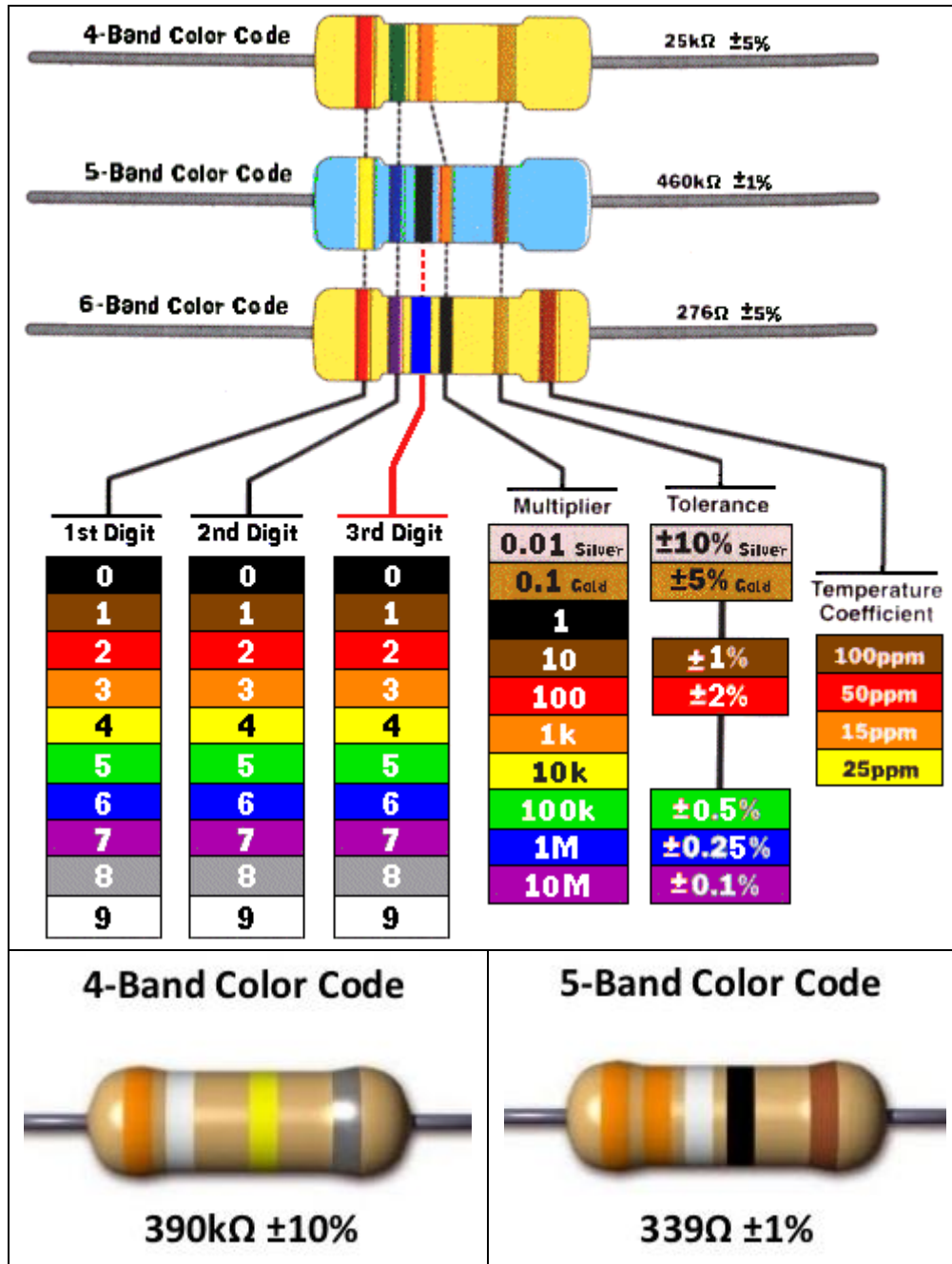1 = Brown   0 = Black   x 10^5 = Green   (Brown/Black/Green)

Figure 2. Resistor color code example 2. [Ref. Internet]