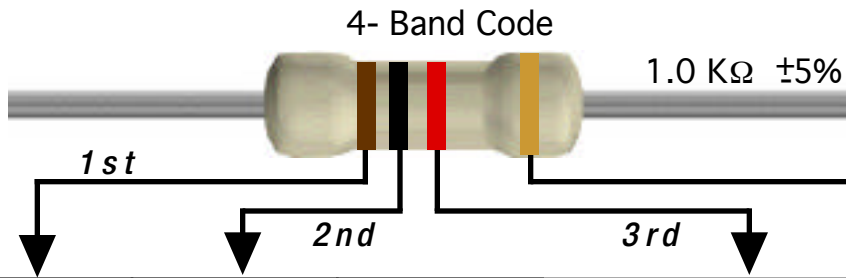
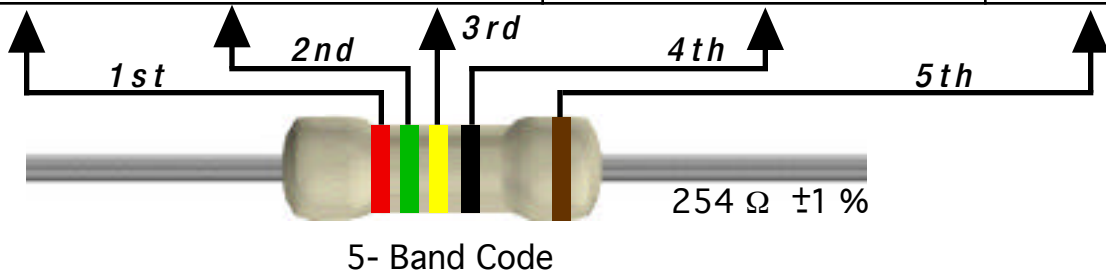


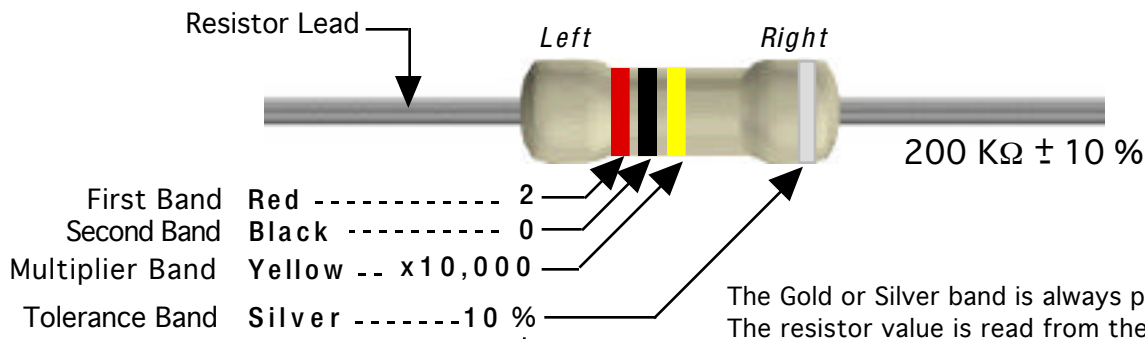
RESISTOR COLOR CODE GUIDE



| 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 % |



Calculation



Equation

$$20 \times 10,000 = 200,000$$

$$1,000 = 1K$$

Resistor = 200 KΩ
with a ± 10 % Tolerance

If there is no tolerance band, then find the side that has a band closest to a lead and make that the first band.