### Activity 1.4A – Resistance

**Purpose**

1. Learn what the schematic symbol for a resistor is.

2. Be able to identify the value of resistors by reading their color code and measuring the resistors with a Multimeter.

**Equipment**

Multimeter

Resistor

**Procedure**

1. Obtain 5 random resistors from your instructor.

2. Fill in the chart below using a Multimeter and the color codes to identify each of the 10 resistors given to you by the instructor.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Resistor | Colors | Value | Tolerance Range | | Meter Value | Meets Tolerance?  Y/N |
| 1 |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |

**Conclusion**

1. Why are the measured values of the resistors different from the stated values?

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