Resistor Color Code (19:37)

Identify the significance of the colors employed in the 4 band resistor color code.

Identify the significance of the first 3 bands of the 4 band resistor color code.

Use the 4 band resistor color code to interpret the first 3 bands of this collection of resistors.

BROWN BLACK BROWN
BROWN BLACK GREEN
YELLOW PURPLE ORANGE
BROWN BLACK RED

Identify which of the first 3 bands is the most important.

Use the 4 band resistor color code to interpret the first 3 bands of this collection of resistors.

ORANGE ORANGE RED
WHITE BROWN BROWN
BLUE GREY YELLOW
BROWN BLACK BLACK

Given the following resistors determine the first 3 bands of the 4 band resistor color code.

51kΩ
6.8kΩ
470Ω
1.8MΩ

Identify the significance of the colors gold and silver when they appear in the 3rd band.

Use the 4 band resistor color code to interpret the first 3 bands of this collection of resistors.

BROWN BLACK GOLD
GREEN BLUE SILVER

Use the 4 band resistor color code to interpret the first 3 bands of this collection of resistors.

YELLOW ORANGE YELLOW
BROWN BLUE BLACK
ORANGE WHITE ORANGE
BROWN ORANGE GOLD

Given the following resistors determine the first 3 bands of the 4 band resistor color code.

2.4MΩ
620mΩ
4.7kΩ
620Ω

Identify the significance of the 4th band in the 4 band resistor color code. Identify the significance of colors gold, silver, and no color when they appear in the 4th band.

Calculate the possible range for a nominal 750Ω resistor manufactured with ±5% tolerance.

Calculate the possible range for a nominal 680Ω resistor manufactured with ±5% tolerance.

Calculate the possible range for a nominal 820Ω resistor manufactured with ±5% tolerance.

Comment on why resistors and manufactured with a tolerance.