

1. Based on the color coding (Yellow, Orange, Black, Brown, and Gold), the resistance of the resistor is 4300 ohms with 5% tolerance.
2. Since  $\text{Power} = \text{voltage}^2 / \text{Resistance}$  and the maximum power rating for the resistor is 0.5W, we can calculate maximum voltage to be around 46.368 V.