

Color: Blue Size: 5mm

Lens Color: Diffused Blue

Peak Wave Length (nm): 465 ~ 470 Forward Voltage (V): 3.2 ~ 3.4 Forward Current (mA): 30mA Reverse Current (uA): <=30

Luminous Intensity Typ Iv (mcd): Average in 6000

Viewing Angle: 100 ~ 120 Degree



Color: Green Size: 5mm

Lens Color: Water Clear

Peak Wave Length (nm): 515 ~ 517 Forward Voltage (V): 3.0 ~ 3.4 Forward Current (mA): 15mA ~ 20mA

Reverse Current (uA): <=30

Luminous Intensity Typ Iv (mcd): 10000(Typical) ~ 15000(Max)

Viewing Angle: 20 Degree



Color: Red in Flash

Flash Rate: about 0.7 second, about 80 times per minute

Size: 5mm Lens Color: Red

Peak Wave Length (nm): 620 ~ 630 Forward Voltage (V): 1.8 ~ 2.2 Forward Current (mA): 20mA Reverse Current (uA): <=30

Luminous Intensity Typ Iv (mcd): 2000(Typical) ~ 3000(Max)

Viewing Angle: 140-160 Degree



Color: Orange Flicker

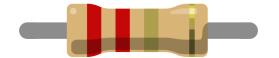
Size: 5mm

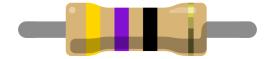
Lens Color: Water Clear

Peak Wave Length (nm): 605 ~ 610 Forward Voltage (V): 1.8 ~ 2.2 Forward Current (mA): 20mA Reverse Current (uA): <=30

Luminous Intensity Typ Iv (mcd): 4000(Typical) ~ 6000(Max)

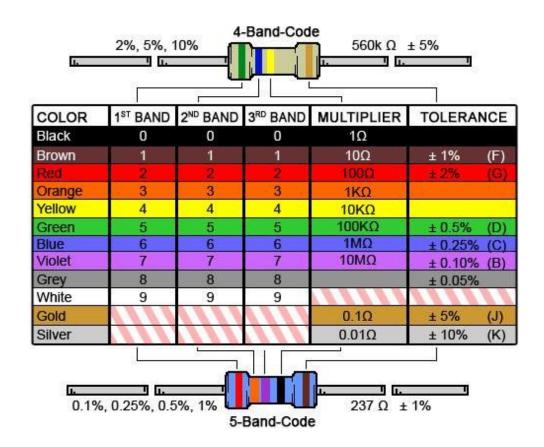
Viewing Angle: 20 Degree



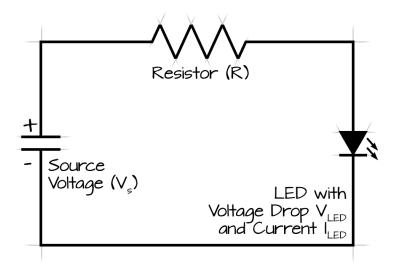


2.2 ohm = red red gold gold

47 ohm = yellow violet black gold



http://www.digikey.com/en/resources/conversion-calculators/conversion-calculator-resistor-color-code-4-band

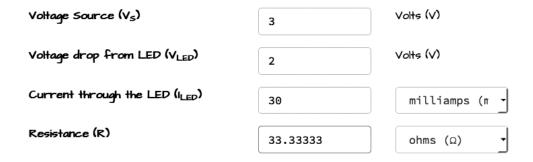


To calculate the resistor needed for a simple LED circuit, simply take the voltage drop away from the source voltage then apply Ohm's Law. In other words...

$$R = \frac{(V_s - V_{LED})}{I_{LED}}$$

where:

- **VS** is the source voltage, measured in volts (V),
- **VLED** is the voltage drop across the LED, measured in volts (V),
- ILED is the current through the LED*, measured in Amperes (Amps/A), and
- **R** is the resistance, measured in Ohms (Ω).



Since resistors do not come in every possible value, we chose something close to 33.33333 ohms. In this case, a 47 ohm resistor will work just fine...