

## 560pcs 3mm & 5mm Standard LED assortment with LED mount and pre-resistor Item No.: 1801O005

This range of experiments and practitioners with super-bright and standard LEDs with a diameter of 3 and 5 mm and various series resistors is ideal for immediate start in experiments with semiconductor light.

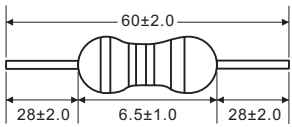
Through resistor combinations of parallel or series connection or varying the supply voltage, different operating currents (brightness) can be realized.

Addition LED mounting clips for easy mount and installation onto casing or panel.

A brief description of the components contained is clearly printed on the inside of the lid.



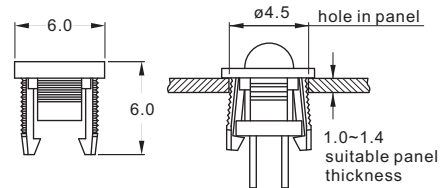
### Carbon Film Fixed Resistor



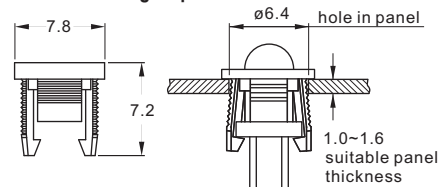
	1st digit	2nd digit	multiply	tolerance
Black	0	0	1Ω	
Brown	1	1	10Ω	1%
Red	2	2	100Ω	2%
Orange	3	3	1KΩ	
Yellow	4	4	10KΩ	
Green	5	5	100KΩ	0.50%
Blue	6	6	1MΩ	0.25%
Violet	7	7	10MΩ	0.10%
Grey	8	8		0.05%
White	9	9		
Gold				5%
Silver				10%

Resistance - 220Ω, 470Ω, 680Ω, 1KΩ  
 Rated Power - 0.25W  
 Maximum Working Voltage - 250V  
 Maximum Overload Voltage - 500V  
 Dielectric Withstanding Voltage - 350V

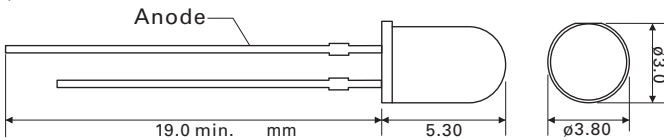
### LED Mounting Clips for ø3mm LED



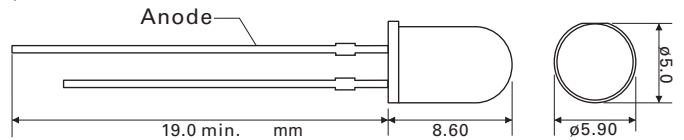
### LED Mounting Clips for ø5mm LED



### ø 3 mm LED Diode



### ø 5 mm LED Diode



LEDs	ø 3 mm	ø 3 mm	ø 3 mm	ø 3 mm	ø 3 mm	ø 3 mm	ø 5 mm	ø 5 mm	ø 5 mm	ø 5 mm	ø 5 mm	ø 5 mm	
Light Source	Red	Blue	Green	Yellow	Cold White	Warm White	Red	Blue	Green	Yellow	Cold White	Warm White	
Lens color	Diffuse	Diffuse	Diffuse	Diffuse	Clear	Clear	Diffuse	Diffuse	Diffuse	Diffuse	Clear	Clear	
Chip material	Gap	InGaAlP	InGaAlP	Gap	InGaAlP	InGaAlP	Gap	InGaAlP	InGaAlP	Gap	InGaAlP	InGaAlP	
Wavelength / color temperature	625-635nm	460-465nm	568-572nm	587-590nm	8000-9000K	3000-3200K	620-625nm	460-470nm	568-572nm	587-590nm	7000-9000K	2800-3200K	
Max. Luminous intensity	600 mcd	1500 mcd	100 mcd	600 mcd	8000 mcd	9000 mcd	800 mcd	2000 mcd	120 mcd	800 mcd	14000 mcd	20000 mcd	
Viewing angle (typ.)	30°	30°	30°	30°	30°	25°	35°	35°	35°	35°	20°	25°	
Forward current (max.)	20 mA	20 mA	20 mA	20 mA	20 mA	20 mA	20 mA	30 mA	20 mA	30 mA	20 mA	20 mA	
Forward voltage (typ.)	2.0 V	3.0 V	2.0 V	2.0 V	3.0 V	3.0 V	2.0 V	3.0 V	3.0 V	2.0 V	3.0 V	3.0 V	
Operating temperature												-25°C - 80°C	
Storage temperature													-30°C - 100°C