

650nm, Small Size, Best Value

Application:

Industrial areas

Property:

Wavelength Range = 650nm

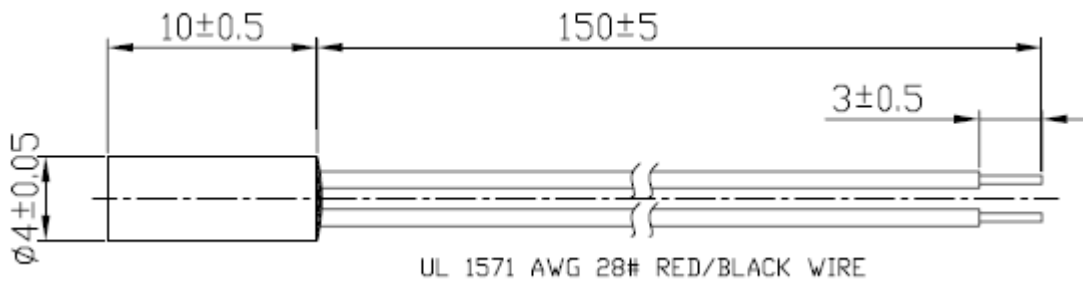
Introduction:

Egismos created the smallest laser module in market. With its size of just 4*10mm this laser module is smaller than some laser diodes making it perfect solution for applications where dimensions and price are priority.



Specifications:

Specifications(T=25°C)	Symbol	S436501D S436505D	H436501D/R H436505D/R
Mode		CW	CW
Wavelength	λ	650nm	650nm
Spot		Dot	Dot/Round
Spot Size		<8x12mm at 10m	<10mm round at 10m min. <8mm at 10m
Diameter x Length	$\Phi \times l$	4x10mm	4x10mm
Output Power	Po	<1mW, <5mW	0.9mW \pm <10%, 3.2mW \pm <10%
Power Stability		<10%	<5%
Divergence Angle	mrad	<1	<0.2
Operating Voltage(DC)	Vo	2.6-6.0V	2.6-6.0V
CW Operating Current	Io	25~30mA, 40mA max.	25~30mA, 40mA max.
Operating Temperature	To	-10 °C ~ + 50 °C	-10 °C ~ + 70 °C
Storage Temperature	Ts	-40 °C ~ + 85 °C	-40 °C ~ + 90 °C
Housing Material		Brass/aluminum	Brass/aluminum
Mean time to failure		>8,000 hrs	>10,000 hrs

Outline Dimensions:**Certification:****FDA****CE****Laser Safety**

The light emitted from these devices has been set in accordance with IEC60825. However, staring into the beam, whether directly or indirectly, must be avoided.

Class I

The maximum permissible exposure (MPE) cannot be exceeded, it includes High-power lasers within an enclosure that prevents exposure to the radiation and that cannot be opened without shutting down the laser. For example, a continuous laser at 600nm can emit up to 0.39mW, but for shorter wavelengths, the maximum emission is lower.

Class II

"Caution", visible laser light less than 1.0mW. Considered eye safe, normal exposure to this type of beam will not cause permanent damage to the retina.

Class IIIA

"Danger", visible laser light between 1.0mW and 5.0mW. Considered eye safe with caution. Focusing of this light into the eye could cause some damage.

Class IIIB

"Danger", infrared (IR), and high power visible lasers considered dangerous to the retina if exposed. NB: it is important to note that while complying with the above classifications, unless otherwise stated. Our laser diode products are not certified and are designed solely for use in OEM products. The way in which device is used in the final product may alter its original design classification, and it is the responsibility of the OEM to ensure compliance with the relevant standards.