

Features

- ▶ Typical wavelength, 808nm
- ▶ Stabilized optical power
- ▶ Single supply voltage, 12V DC
- ▶ Collimated or focused beam (adjustable)
- ▶ 3 elements optic structure (2 lenses fixed & 1 lens mobile)
- ▶ Wire length : 30cm(standard) or custom
- ▶ Laser class : 3B (IEC 60825-1:2007)

Specification

● **Optical (@RT)**

Items	Values	Unit
Optical output power	65±10%	mW
Peak wavelength	808±15	nm
Focused beam dia. (@FWHM)	<0.2 (@300mm)	mm
Collimated beam dia. (@FWHM)	<3x2(@10M)	mm
Collimated beam div.	<0.5	mrad
Beam quality	TEM00, M ² <1.5	
Beam intensity pattern	Gaussian	

● **Electrical (@RT)**

Items	Values	Unit
Operating voltage	12±5%	DC V
Operating current	120 (typ.)	mA
Drive circuit	APC	
Operating temp.	-10 ~ +50	°C
Storage Temp	-40 ~ +80	°C
LD Pin Connection	Case ground	

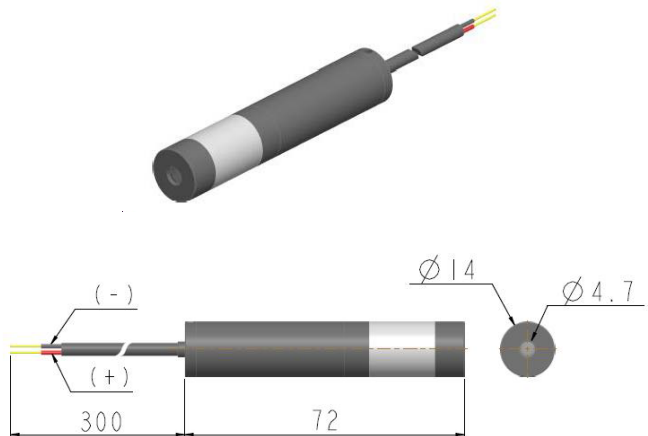
● **Mechanical**

Items	Values	Unit
Weight	22±1	g
Dimensions(mm)	Ø14*72	mm
Housing material	Aluminum	

Description

The LM-812HMD series laser diode module combines laser diode technology, 3 elements optics and sophisticated electronics within a Slim and light aluminum anodized housing for variety of Applications. Specially, 3 lens structure compensates line beam's curve & unbalance and dot beam's accurate focused point. This series of modules provides a high-brightness elliptical laser beam, and have various wavelengths and optical output power. Applications include a measurement, positioning, lighting, alignment, guidelines, pointing, switching, leveling and machine vision etc. Useful in a variety of medical, industrial, and scientific instrumentation as well as general R&D work.

Drawings



- ◆ **Warranty : One-year**
- ◆ **Accessory : Bracket (Mount) & Power adaptor**

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