

Features

- ▶ **Typical wavelength, 808nm**
- ▶ **Stabilized optical power**
- ▶ **Line generator : Cylindrical glass lens**
- ▶ **3 elements optic structure (2 lens fixed & 1 lens mobile)**
- ▶ **Single supply voltage, 12V DC**
- ▶ **Wire length : 30cm(standard) or custom**
- ▶ **Laser class : (IEC 60825-1:2007)**

Description

The MS series laser diode module combines laser diode technology, 3 elements lens optics, and sophisticated electronics within a slim and light aluminum anodized housing. 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 line, 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.

Specification

● Optical (@RT)

Items	Values	Unit
Optical output power	65±10%	mW
LD power	200(Max.)	mW
Peak wavelength	808±5	nm
Collimated beam wid. (@FWHM)	<3 (@10M)	mm
Fan angle	15,30,45,60,90,120	°
Line pattern	Gaussian	
Beam quality	TEM00	
Beam intensity pattern	Gaussian	

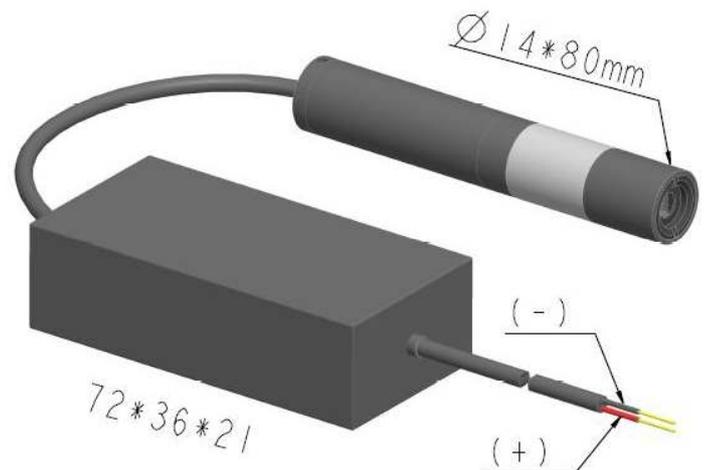
● Electrical (@RT)

Items	Values	Unit
Operating voltage	12±5%	DC V
Operating current	120 (typ)	mA
Drive circuit	APC	
Operating temp.	-10 ~ +40	°C
Storage temp.	-40 ~ +85	°C
LD Pin Connection	Case Ground	

● Mechanical

Items	Values	Unit
Weight	114±0.5(회로포함)	g
Dimensions(mm)	Ø14*80	mm
Housing material	Aluminum	

Drawings



* Range of fan angle

Symbol	Angle	Line length [mm] (@ distance 1M)	Laser Class
LM-812HMS1D	15°	250	3R
LM-812HMS3D	30°	500	2
LM-812HMS4D	45°	830	2
LM-812HMS6D	60°	1160	2
LM-812HMS9D	90°	2000	1
LM-812HMS12D	120°	3400	1

◆ **Warranty : One-year**

◆ **Accessory : Bracket (Mount) & Power adaptor**

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