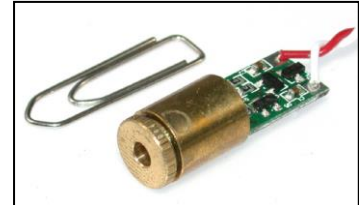




LM-104-E002



TECHNICAL DATA

IR Diode Laser Module

LM-104-E002 is a multi purpose, low cost, small size infrared diode laser module, featuring a brass housing with embedded focusable lens, and driver electronics.

Features

- Small size (Ø 9.8 x 26.0 mm)
- Focusable
- Low current consumption



Specifications ($T_c=25^\circ\text{C}$, $P_o<3\text{mW}$, $V_{cc}=3\text{V}$)

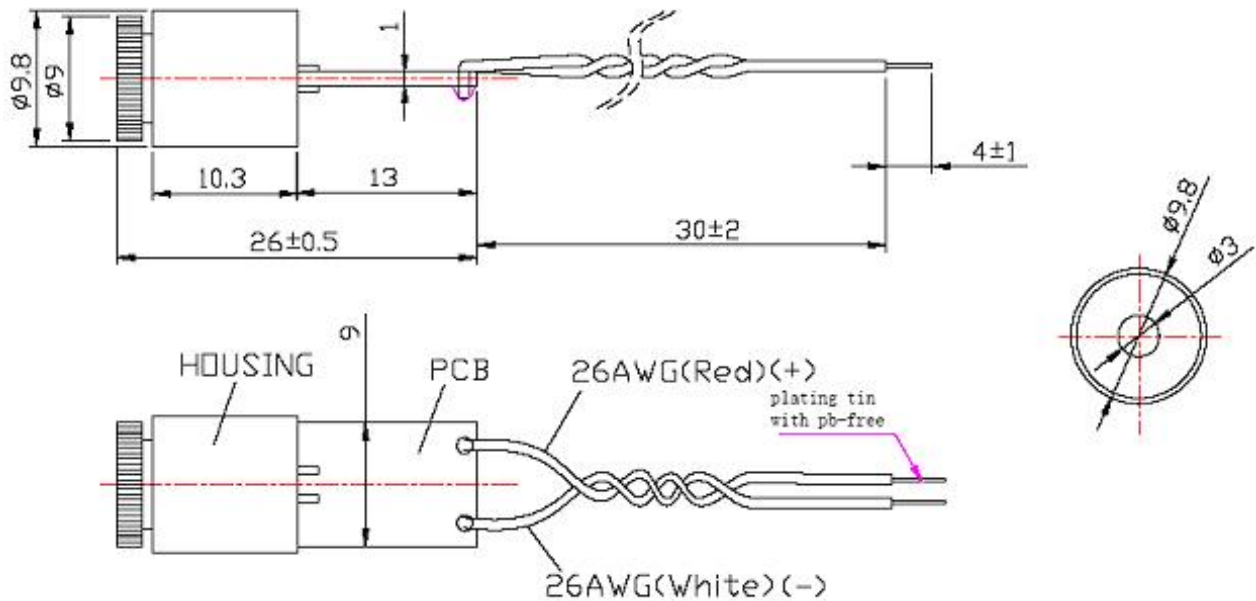
	Min.	Typ.	Max.	Unit
Optical				
CW Output Power P_o	1.5	-	3.0	mW
Center Wavelength λ_c	870	880	890	nm
Output Aperture	3.5 x 1.7 (± 0.5 mm)			mm
Beam Size at 6M	10 ... 15			mm
Electrical				
Current draw	-	25	35	mA
Supply voltage	2.7	-	3.3	V
General				
Body	Brass			
Dimensions	9.8 x 26			mm
Lens	Acryl			
Life time				h
Wire	26 AWG PVC-Free			
Solder	Nihon Genma Solder (Lead-Free)			
	NP303YS RMA 0.8mm			
	NP601SZ 555 GK			
Operating temperature	0 ... +40			$^\circ\text{C}$
Operating humidity (relative humidity)	40 ... 95			%
Storage temperature	-25 ... +70			$^\circ\text{C}$
Storage humidity (relative humidity)	20 ... 80			%

The above specifications are for reference purpose only and subjected to change without prior notice



Outline Dimension

Unit: mm, default tolerance : ± 0.3



Cautions

1. Do not operate the device above the maximum rating condition, even momentarily. It may cause unexpected permanent damage to the device.
2. Semiconductor laser device is very sensitive to electrostatic discharge. High voltage spike current may change the characteristics of the device, or malfunction at any time during its service period. Therefore, proper measures for preventing electrostatic discharge are strongly recommended.
3. Do not look into the laser beam directly with the naked eyes. The laser beam may cause severe damage to human eyes.
4. The laser module is emitting invisible light.

