

EGISMOS *DATASHEET*

650nm Compact Laser Diode Modules Key features

Visible light $\lambda = 650\text{nm}$

Output powers =5mW

Package type=5.6mm ϕ

High reliability

Applications

General Purpose Infrared Red Laser Light Source

Printer Scanner Unit & Infrared Red Laser Module for Industry Application

Optical Storage & High Precision Engineering Instruments

Laser Diode Solutions

RN-D6-5-650-5 is a MOCVD grown 650nm band laser diode. It's an attractive light source, with a typical light output power of CW 5mW . It's suitable for use as high reliability laser diode in a wide range of industrial application.



RN-D6-5-650-5

Electrical and Optical Characteristics at Tc=25°C

Item	Symbols	Min.	Typ.	Max.	Unit	Condition
Optical Output Power	Po	-	7	-	mW	-
Threshold Current	Ith	-	20	25	mA	-
Operating Current	Iop	-	25	35	mA	Po=5mW
Differential Efficiency	η	0.4	0.7	1.1	mW/mA	Po=3~5mW
Operating Voltage	Vop	-	2.2	2.5	V	Po=5mW
Peak Wavelength	λ_p	645	655	660	nm	Po=5mW
Beam Divergence	$\Theta_{//}$	6	8	11	deg	Po=5mW
	Θ_{\perp}	24	28	38	deg	Po=5mW
Beam Angle	$\Delta\Theta_{//}$	-	-	± 3.0	deg	Po=5mW
	$\Delta\Theta_{\perp}$	-	-	± 3.0	deg	Po=5mW
Optical Distance	$\Delta X, \Delta Y, \Delta Z$	-	-	± 80	μm	Po=5mW
Monitor Current	I _m	0.05	0.25	0.4	mA	Po=5mW

EGISMOS

<http://www.egismos.com>

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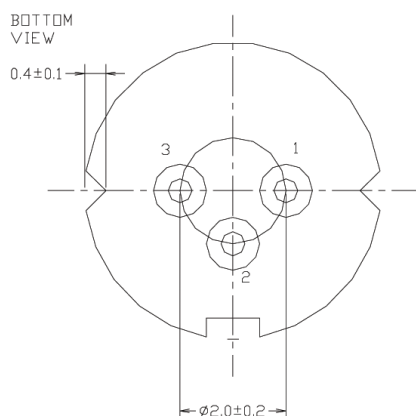
Absolute Maximum Rating at $T_c=25^{\circ}\text{C}$

Items	Symbols	Values	Unit
Optical Output Power	Po	5	mW
Laser Diode Reverse Voltage	V	2	V
Operating Temperature	To	-10~+50	$^{\circ}\text{C}$
Storage Temperature	Ts	-40~+85	$^{\circ}\text{C}$



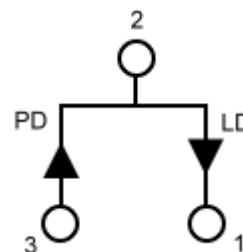
RN-D6-5-650-5

Electrical Connection



Package Type

N type (N,L,A)



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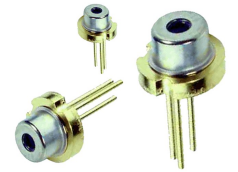
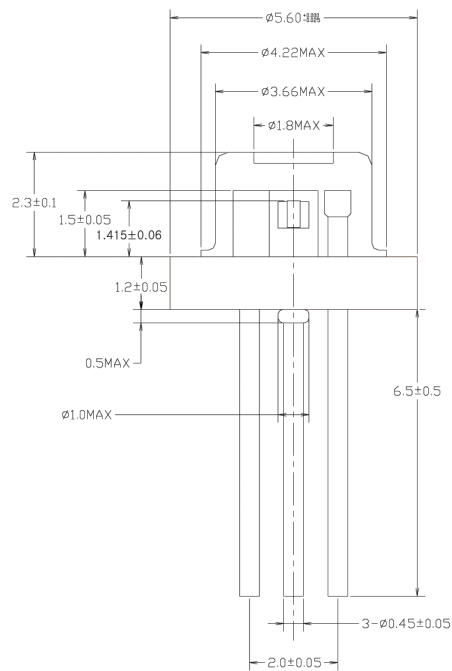
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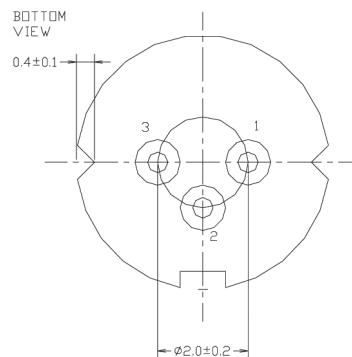
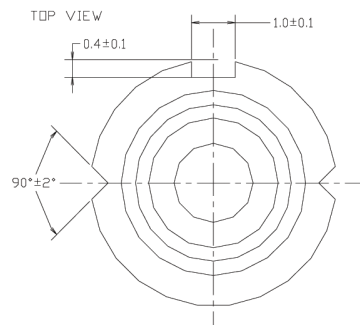
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Egismos *DATASHEET*

Laser Diode Package Drawing



RN-D6-5-650-5



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