Laser Diodes

Laser Module
LC-LMD-635-03

Ø 8 mm, 635 nm Laser Module

Features

1. APC (auto power control) IC inside
2. Low current consumption of the APC circuit
3. Surge current protection
4. High quality lens for output beam

Part No. Indications

LC-LMD – 635 – 03 – XX – A

Output Power:
01 - < 1 mW
03 - < 2 ~ 3 mW

Absolute Maximum Ratings

Item	Symbol	Rating	Unit
Power supply voltage	V_{CC}	3.3	V
Laser Module optical output power	P_o	< 3	mW
Operation temperature	T_{opr}	0 ~ 40	°C
Storage temperature	T_{stg}	0 ~ 60	°C

Germany & Other Countries
Laser Components GmbH
Tel: +49 8142 2864 – 0
Fax: +49 8142 2864 – 11
info@lasercomponents.com
www.lasercomponents.com

USA
Laser Components USA, Inc.
Tel: +1 603 821 – 7040
Fax: +1 603 821 – 7041
info@laser-components.com
www.laser-components.com

United Kingdom
Laser Components (UK) Ltd.
Tel: +44 1245 491 499
Fax: +44 1245 491 801
info@lasercomponents.co.uk
www.lasercomponents.co.uk

France
Laser Components S.A.S.
Tel: +33 1 39 59 52 25
Fax: +33 1 39 59 53 50
info@lasercomponents.fr
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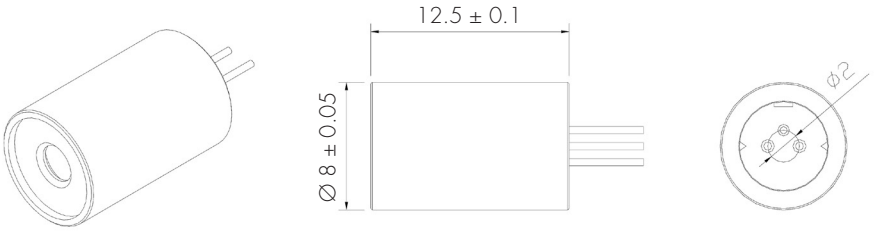
Electrical and Optical Characteristics (T_C = 25 °C)

Item	Symbol		Min.	Typ.	Max	Unit	Condition
Wavelength	λ		630	634	640	nm	P_o = < 3 mW
Output power	P_{out}	01	-	0.6	0.9	mW	V_{cc} = 3 V
		03	2.2	-	3.0	mW	V_{cc} = 3 V
Operation current	I_{op}		30	40	50	mA	P_o = 3 mW
							V_{cc} = 3 V
Operation voltage	V_{op}		2.5	-	3.3	Volt	
Laser Beam spot size at 10 m	< 10 mm						
Divergence angle	1.1 mrad						
Mean time to failure (MTTF) 3 mW 25 °C	>5000 hrs						

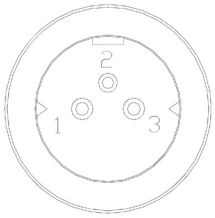
Outline Dimensions (Units: mm)



Aperture size 2.5 mm

Pin Assignment

Pin 1: V_{cc}
Pin 2: GND
Pin 3: NC



A type: Heat sink stand (-)

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