LASERSCOM
Coupling Light to Your Success

LDI-450-FP-30

450 nm, FP, 30 mW CW

DESCRIPTION

The module is equipped with an SM fiber and provides a Gaussian beam with the field diameter 3.6 μm and optical power up to 30 mW in CW. Small size and weight allow for installing it on a PCB without additional mounting.

Application: biomedical systems.

ABSOLUTE MAXIMUM RATINGS

Parameter	Value	Unit
LD forward current, I_{fl}	140	mA
LD reverse voltage, V_{rl}	2	V
Operating temperature, T_c	-10 ÷ +40	°C
Storage temperature, T_{stg}	-20 ÷ +60	°C

ELECTRICAL-OPTICAL CHARACTERISTICS (SINGLE MODE, T = 25 °C)

Parameter		Min	Typ	Max	Unit	Test conditions
Wavelength	λ	440	450	460	nm	CW, P = 30 mW
Threshold current	I_{th}		20	60	mA	CW
Operating current	I_{op}		25	70	mA	CW, P = 5 mW
			65	110		CW, P = 30 mW
Spectral width	Δλ		2	3	nm	CW, P = 30 mW, FWHM
Operating voltage	V_{op}		5.5	6	V	CW, P = 30 mW
Slope efficiency	S_e	0.4	0.6		mW/mA	CW, P = 30 mW

The provided values hold true for SM regime at ambient temperature 25 °C providing heat removal from the module case.

ORDERING INFORMATION

LDI-450-FP-30-X-21-X-X-X

Package
BR – flange BR
F – thermal stabilization, radiator

Fiber type
SM03 – S405-XP
Typical fiber length = 100 cm

Certification
CW – CW

Connector type
FU – FC/UPC

This document was updated on 31.08.2017

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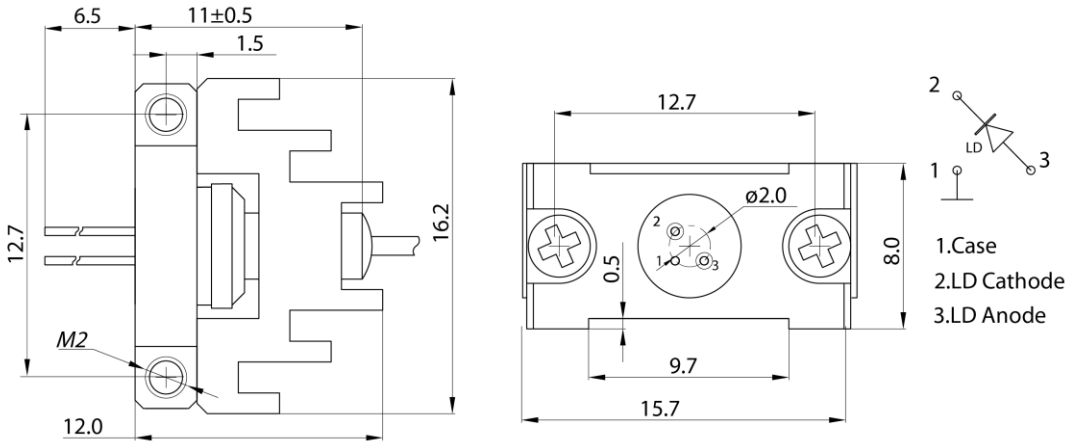
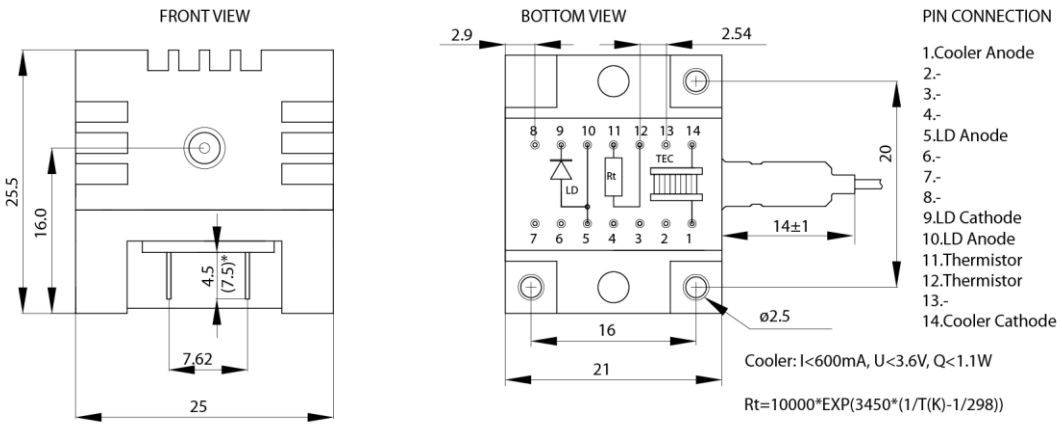
BR



F



*Possible pins length 4.5 mm or 7.5 mm.

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