INSTITUTE OF INFORMATION TECHNOLOGIES

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LDI H-FP-1625-30P

1625nm 30mW FP LASER DIODE MODULES

These laser diode modules are high stability FP laser-diode modules with single-mode fiber pigtails, fan and built-in Peltier cooler, thermistor. These modules are optimal 1625nm 30mW (CW) light sources for measuring instruments.

Absolute maximum ratings

LD forward current, I_{fl}	320mA
LD reverse voltage, V_{rl}	2V
Operating case temperature, T_c:	-20 ÷+50°C
Storage temperature, T_{stg}	-30 ÷+60°C

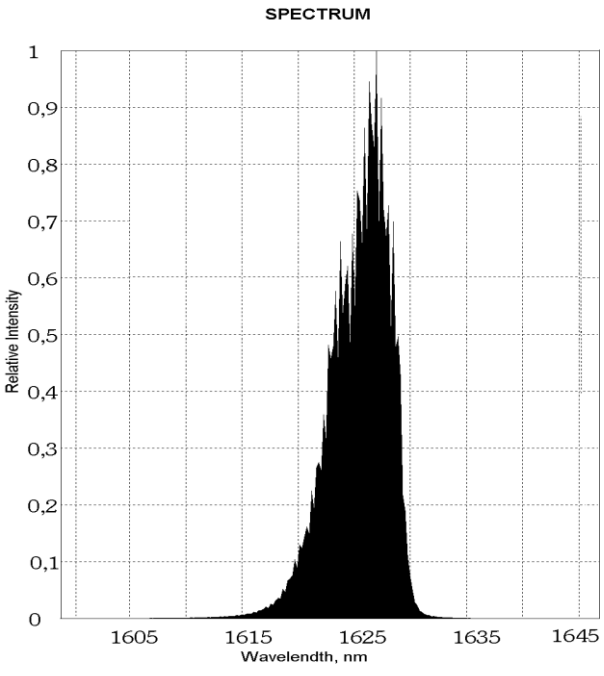
Electrical / optical characteristics (SM, T=25°C)

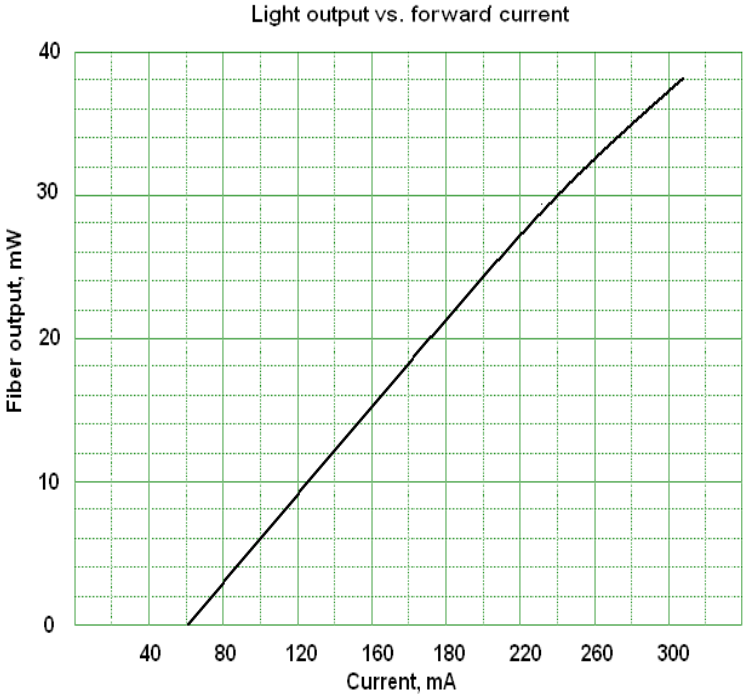
Parameter		Min.	Typ.	Max.	Unit	Test conditions
Wavelength	λ	1615	1625	1635	nm	CW, P=30mW
Threshold current	I_{th}		60		mA	CW
Operating current	I_{op}		300		mA	CW, P=30mW
Operating voltage	V_{op}		1	2	V	CW, P=30mW
Slope efficiency	η	0.12	0.18		mW/mA	CW, P=30mW
Spectral width	Δλ		5	10	nm	CW, P=30mW, FWHM

Ordering information

LDI H-FP-1625-30P-T2-SM-X

Connector type: **FC/UPC, FC/APC, N** – without connector

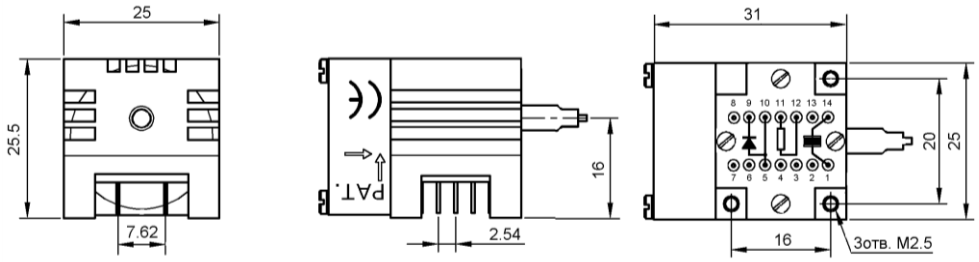




ATTENTION: ELECTROSTATIC SENSITIVE DEVICES

PACKAGE DIMENSIONS (UNIT:mm)

T2



1.Cooler anode
2.
3.
4.
5.Laser anode
6.
7.
8.
9.Laser cathode
10.Laser anode
11.Thermistor
12.Thermistor
13.
14.Cooler cathode

Thermistor: $Rt=10000EXP(3450(\frac{1}{t+273}-\frac{1}{298}))$ Cooler: Imax=600mA Vmax=3.5V Fan: DC12V=0.5W