



# LDI H-FP-1650-30P

## 1650nm 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 1650nm 30mW (CW) light sources for measuring instruments.

### Absolute maximum ratings

LD forward current, $I_{f1}$	320mA
LD reverse voltage, $V_{r1}$	2V
Operating case temperature, $T_c$ :	-20 ÷ +50°C
Storage temperature, $T_{stg}$	-30 ÷ +60°C

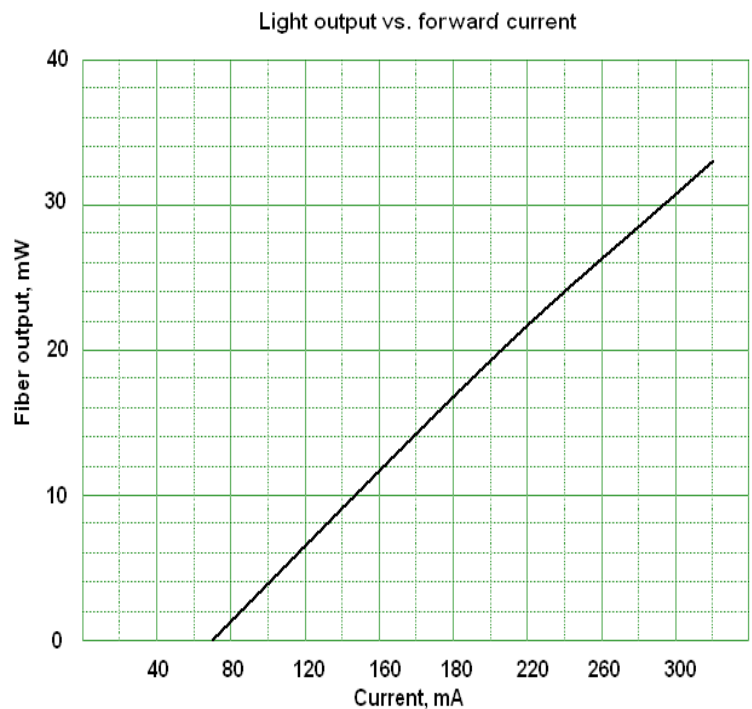
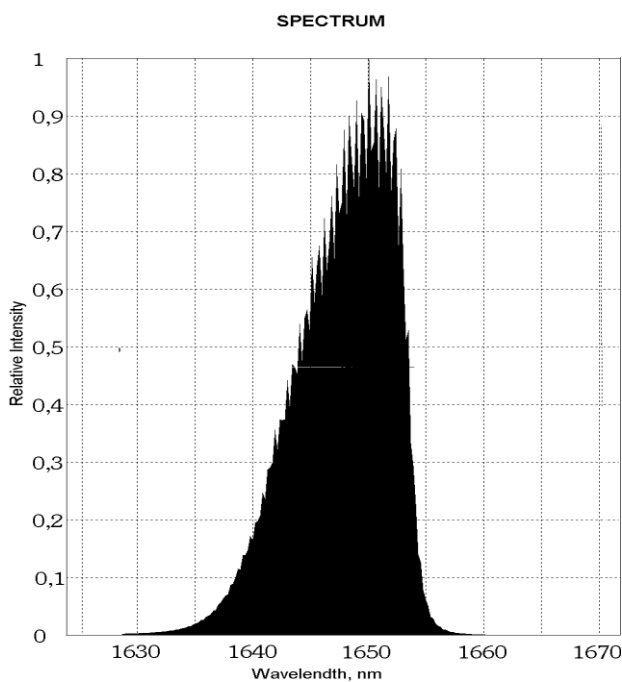
### Electrical / optical characteristics (SM, T=25°C)

Parameter		Min.	Typ.	Max.	Unit	Test conditions
Wavelength	$\lambda$	1640	1650	1660	nm	CW, P=30mW
Threshold current	$I_{th}$		65		mA	CW
Operating current	$I_{op}$		300		mA	CW, P=30mW
Operating voltage	$V_{op}$		1	2	V	CW, P=30mW
Slope efficiency	$\eta$	0.1	0.15		mW/mA	CW, P=30mW
Spectral width	$\Delta\lambda$		10	15	nm	CW, P=30mW, FWHM

### Ordering information

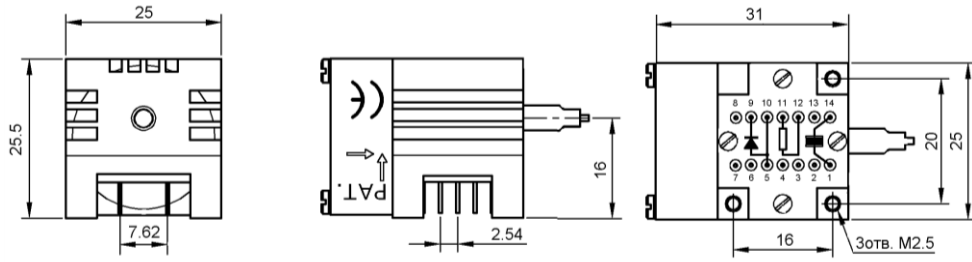
## LDI H-FP-1650-30P-T2-SM-X

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



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:  $R_t = 10000 \exp\left(3450 \left(\frac{1}{T} - \frac{1}{298}\right)\right)$  Cooler:  $I_{max} = 600 \text{mA}$   $V_{max} = 3.5 \text{V}$  Fan:  $\text{DC } 12 \text{V} = 0.5 \text{W}$