



LDI H-FP-1310-100P

1310nm 100mW 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 1310nm 100mW (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

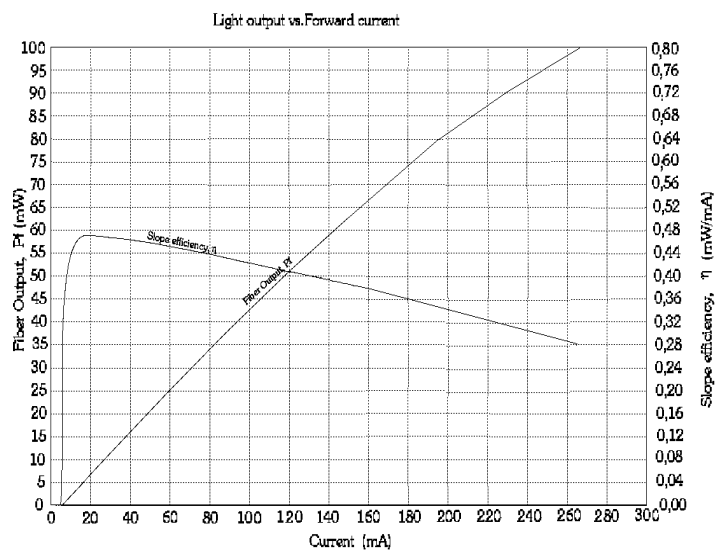
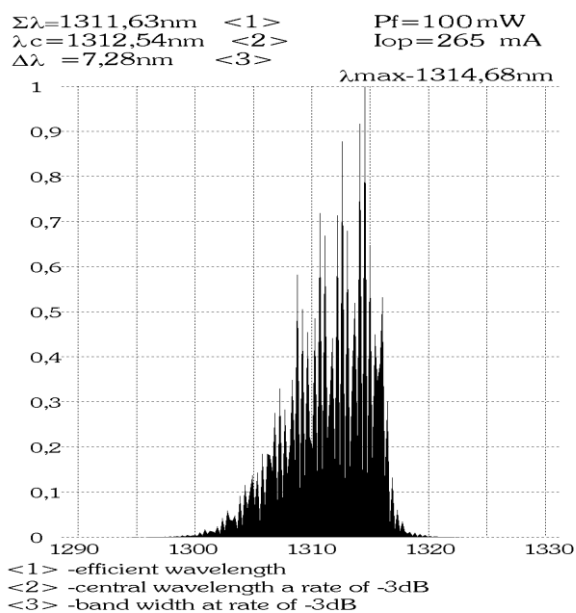
Electrical / optical characteristics (SM, T=25°C)

Parameter		Min.	Typ.	Max.	Unit	Test conditions
Wavelength	λ	1290	1310	1340	nm	CW, P=100mW
Threshold current	I_{th}		20	50	mA	CW
Operating current	I_{op}		250	300	mA	CW, P=100mW
Operating voltage	V_{op}		3	4.5	V	CW, P=100mW
Slope efficiency	η	0.2	0.25	0.35	mW/mA	CW, P=100mW
Spectral width	$\Delta\lambda$		10	15	nm	CW, P=100mW, FWHM

Ordering information

LDI H-FP-1310-100P-T2- SM - X

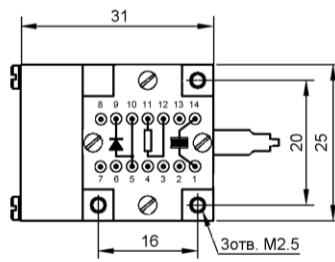
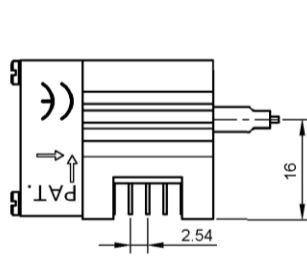
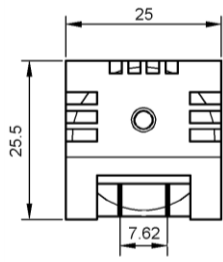
Connector type: **FC/UPC, FC/APC, N** – without connector



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