INSTITUTE OF INFORMATION TECHNOLOGIES

oeciit@gmail.com www.beliit.com

SLDI-1310-1P
SLDI-1550-1P

1310nm, 1550nm SUPERLUMINESCENT DIODE MODULES

These modules are 1310(+/-20)nm and 1550(+/-20)nm high stability superluminescent diode modules with single-mode fiber pigtails. These modules are light sources for optical measuring instrument and fiber optic gyroscope.

Absolute maximum ratings

Forward current, I_f	150mA
Reverse voltage, V_r	2V
Forward voltage, V_f	2.5V
Operating case temperature, T_c: SLDI -1310-1P-T, SLDI -1550-1P-T SLDI -1310-1P-T2, SLDI -1550-1P-T2	 -20 ÷+40°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 SLDI-1310-1P SLDI-1550-1P	λ	 1290 1530	 1310 1550	 1330 1570	nm	CW, P=1mW
Operating current	I_{op}			110	mA	CW, P=1mW
Forward voltage	V_f			2	V	CW, P=1mW
Optical power	P_o		1		mW	CW, I_{op}
Spectral width	Δλ	40			nm	CW, P=1mW , FWHM
Spectrum modulation	R		0.15	0.35	dB	CW, P=1mW

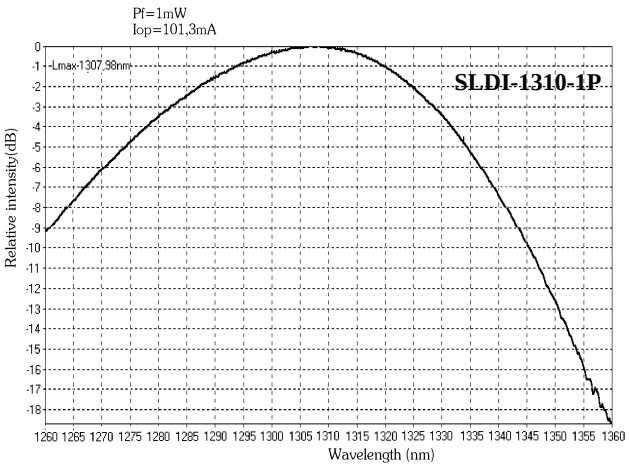
Ordering information

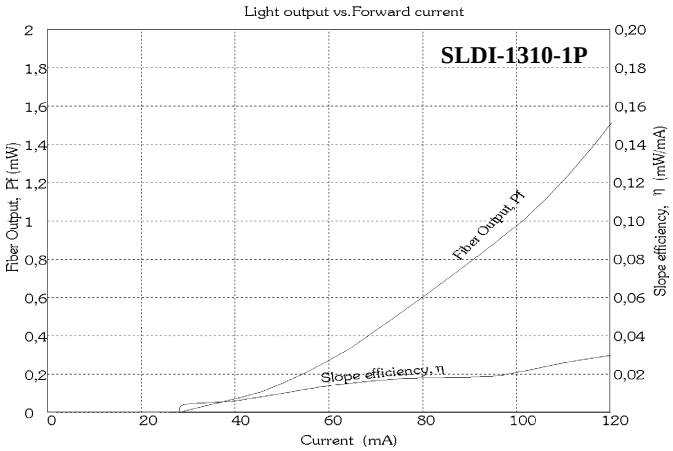
SLDI-X-1P-X-SM-X

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

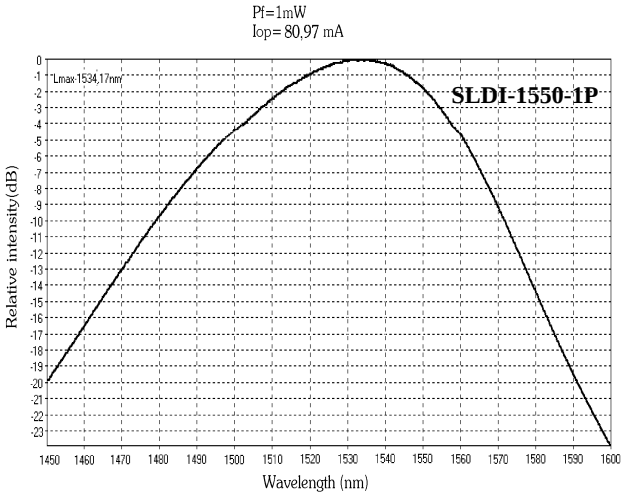
Case type: **T, T2**

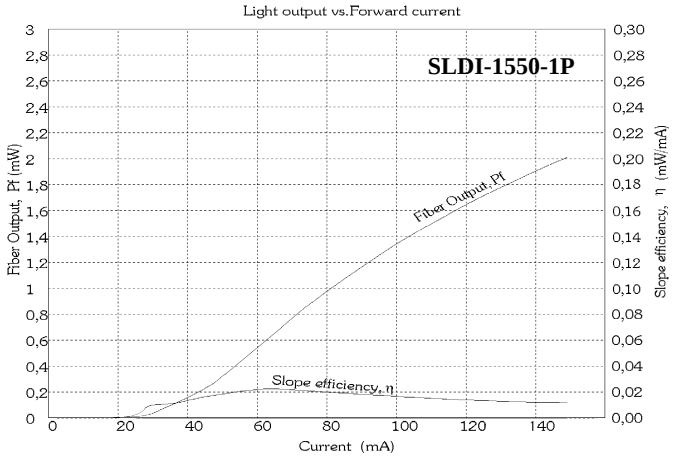
Wavelength, nm: **1310, 1550**





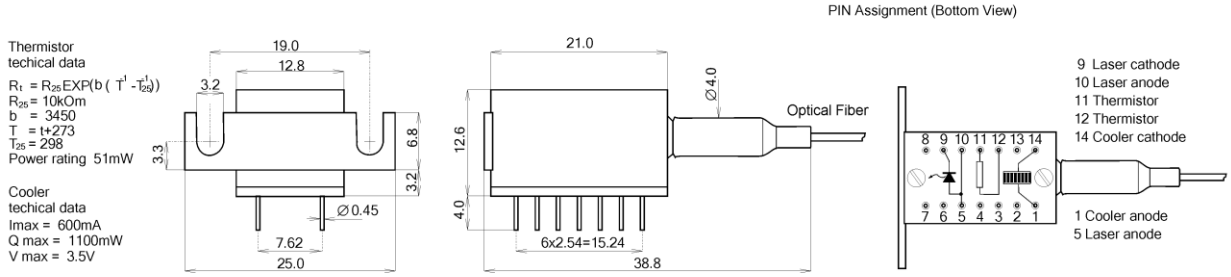
ATTENTION: ELECTROSTATIC SENSITIVE DEVICES





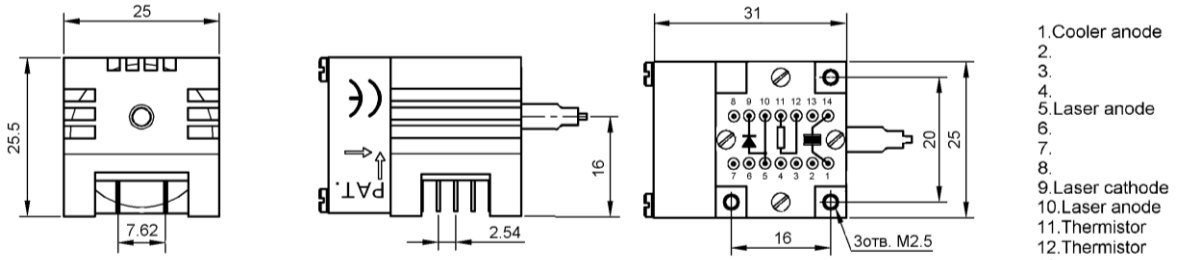
PACKAGE DIMENSIONS (UNIT:mm)

T



PACKAGE DIMENSIONS (UNIT:mm)

T2



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