



LDI P-FP-1550-50P

1550nm 50mW FP PULSE LASER DIODE MODULES

These laser diode modules are 1550nm pulse FP laser-diode coaxial modules with single-mode fiber pigtailed. These modules are optimal light sources for optical time domain reflectometer (OTDR).

Absolute maximum ratings

LD pulse forward current, I_{fl}	500mA
LD reverse voltage, V_{rl}	2V
PD reverse voltage, V_{rd}	30V
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	1530	1550	1580	nm	Pulse*, P=50mW
Threshold current	I_{th}	6	10	15	mA	CW
Operating current	I_{op}		450	500	mA	Pulse*, P=50mW
Operating voltage	V_{op}		2	3	V	Pulse*, P=50mW
Spectral width	$\Delta\lambda$		35	40	nm	Pulse*, P=50mW, -3dB
Monitoring output current (PD)	I_m	1	1.5	2	mA	CW, P=15mW, $V_{rd}=5V$
Capacitance (PD)	C_t		10	20	pF	$V_{rd}=5V$, f=1MHz
Tracking error	E_r^{**}		0.6	0.8	dB	CW, P=15mW, $I_m=const$, $T_c=-20\div+50^\circ C$

* Pulse Conditions: Pulse width - 10 μ s, Duty - 1%

** $E_r = MAX |10\log(P_f / P_{f25^\circ C})|$

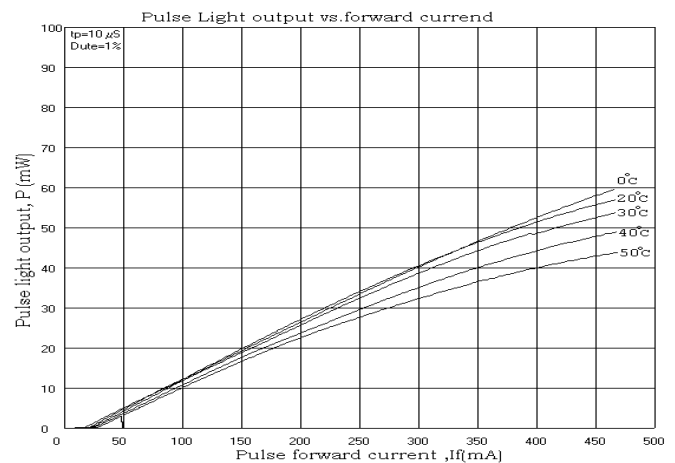
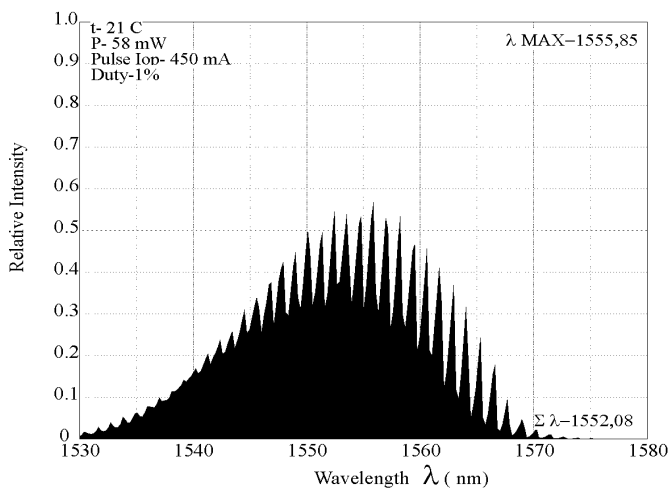
Ordering information

LDI P-FP-1550-50P-X-SM-X

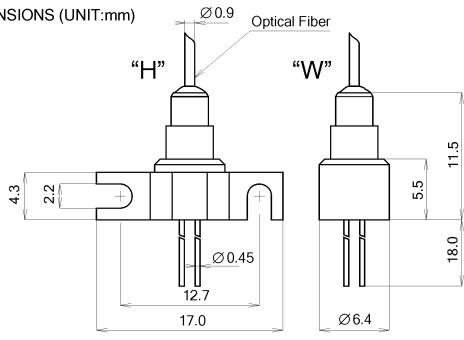
Case type: W, H

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

SPECTRUM



PACKAGE DIMENSIONS (UNIT:mm)



PIN Assignment (Bottom View)

