

LDI P-DFB(CWDM)-λ-70P

70mW DFB PULSE LASER DIODE MODULES

These laser diode modules are pulse DFB laser-diode coaxial modules with single-mode fiber pigtailed.

Wavelength: 1310nm, 1470nm, 1490nm, 1510nm, 1530nm, 1550nm, 1570nm, 1590nm, 1610nm

Absolute maximum ratings

LD pulse forward current, I_{fl}	350mA
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, $T=25^\circ\text{C}$)

Parameter		Min.	Typ.	Max.	Unit	Test conditions
Wavelength	λ	$\lambda - 5$	λ^*	$\lambda + 5$	nm	Pulse*, $P=70\text{mW}$
Threshold current	I_{th}	4	8	12	mA	CW
Operating current	I_{op}		250	300	mA	Pulse*, $P=70\text{mW}$
Operating voltage	V_{op}		2	3	V	Pulse*, $P=70\text{mW}$
Spectral width	$\Delta\lambda$		0.15	0.25	nm	Pulse*, $P=70\text{mW}$, 3dB
Monitoring output current (PD)	I_m	0.5	1	2	mA	CW, $P=15\text{mW}$, $V_{rd}=5\text{V}$
Capacitance (PD)	C_t		10	20	pF	$V_{rd}=5\text{V}$, $f=1\text{MHz}$
Tracking error	E_r ***		0.6	0.8	dB	CW, $P=15\text{mW}$, $I_m=\text{const}$, $T_c=-20\div+50^\circ\text{C}$

* λ , nm: **1310, 1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610**

** Pulse Conditions: Pulse width - 10 μs , Duty - 1%

*** $E_r = \text{MAX} |10\log(P_f / P_{f, 25^\circ\text{C}})|$

Ordering information

LDI P-DFB(CWDM)-X-70P-X-SM-X

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

Case type: **W, H**

Wavelength, nm: **1310, 1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610**



