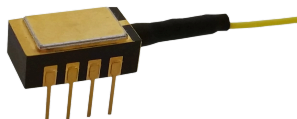


## FPL-1030-8DL



Single mode Fabry-Perot laser diode module designed for optical measurement and communication. The laser is packaged in miniDIL package with monitor photodiode. Module is pigtailed with 0.5-0.9 m of single mode or polarization maintaining (optional) fiber and connectorized by FC/PC connector.

### Optical and electrical characteristics:

Parameter	Symbol	Test condition	Min.	Typ.	Max.	Unit
Optical Power	$P_f$	CW	10			mW
Pulsed Optical Power	$P_{fp}$	Pulse, $\tau=10\mu s$ , $D=1\%$		60		mW
Threshold Current	$I_{th}$		20		50	mA
Forward Current	$I_f$	$P_f$		70	100	mA
Pulsed Forward Current	$I_{fp}$	$P_{fp}$ , $\tau=10\mu s$ , $D=1\%$		300		mA
Forward Voltage	$V_f$	$P_f$			2.5	V
Center Wavelength	$\lambda_c$	$P_f$	1020	1030	1040	nm
Spectral Width	$\Delta\lambda_c$	$P_f$		1	3	nm
Monitor Current	$I_m$	$P_f$	20		500	$\mu A$
PD Dark Current	$I_d$	$V_{rd}=5V$			0.1	$\mu A$
Extinction Ratio (PM fiber)	$X_p$	$P_f$	20			dB

### Absolute maximum ratings:

Parameter	Symbol	Rating	Unit
Forward Current	$I_f$	150	mA
Reverse Voltage	$V_r$	1.8	V
Reverse Voltage	$V_{rd}$	7	V
Minimum Operation Case Temperature	$T_{ol}$	-40	$^{\circ}C$
Maximum Operation Case Temperature	$T_{oh}$	70	$^{\circ}C$
Minimum Storage Temperature	$T_{sl}$	-40	$^{\circ}C$
Maximum Storage Temperature	$T_{sh}$	70	$^{\circ}C$

Packaging:

miniDIL:			
№	Parameter	№	Parameter
1	NC	5	PD anode -
2	LD anode +	6	LD -, case
3	LD -, case	7	NC
4	PD cathode +	8	NC

