

## FPL-850-9MM

Single mode Fabry-Perot laser diode module designed for optical measurement and communication.



Optical and electrical characteristics:

Parameter	Symbol	Test condition	Min.	Typ.	Max.	Unit
Optical Power	$P_f$	CW	50			mW
Pulsed Optical Power	$P_{fp}$	Pulse, $\tau=10\mu s$ , $D=1\%$		150		mW
Threshold Current	$I_{th}$		20		60	mA
Forward Current	$I_f$	$P_f$		150	170	mA
Pulsed Forward Current	$I_{fp}$	$P_{fp}$ , $\tau=10\mu s$ , $D=1\%$		250		mA
Forward Voltage	$V_f$	$P_f$			2.5	V
Center Wavelength	$\lambda_c$	$P_f$	840	850	860	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	$\mu A$
TEC Voltage	$V_t$	$TC=70^\circ C$			2.7	V

Absolute maximum ratings:

Parameter	Symbol	Rating	Unit
Forward Current	$I_f$	250	mA
Reverse Voltage	$V_r$	1.8	V
Reverse Voltage	$V_{rd}$	7	V
Minimum Operation Case Temperature	$T_{ol}$	-40	°C
Maximum Operation Case Temperature	$T_{oh}$	70	°C
Minimum Storage Temperature	$T_{sl}$	-40	°C
Maximum Storage Temperature	$T_{sh}$	70	°C

Packaging:

9mmTO:	
№	Parameter
1	LD anode +
2	LD -, PD -, case
3	PD cathode +

