

Multimode 850/1310nm Bi-directional Single Fiber Module with PD



Multimode Single Fiber Bi-Directional Optical Module

Laser Diode ($T = 25^\circ\text{C}$)

Parameter	Symbol	Test Conditions	Min	Typical	Max	Units
Center Wavelength	λ	P_0 -40 to 85°C	1260	1310	1360	nm
			830	850	860	
Spectral Width	$\Delta\lambda$	P_0 , (RMS, -20dB)	-	1	2	nm
			-	-	1	
Threshold Current	I_{th}	P_0 , 25°C	-	5	15	mA
			-	3	6	
Operating Voltage	V_{op}	P_0	-	1.1	1.5	V
			-	1.9	2.2	
Rise/fall Time	t_r / t_f	10-90%	-	0.3	0.7	ns
			-	0.3	0.7	
Optical Output Power(50/125um)	P_0	1310nm, $I_{\text{th}}+20\text{mA}$ 850nm, $I_{\text{th}}+10\text{mA}$				
-1					0.9	mW
					0.7	mW
-2				0.9		mW
				0.7		mW
Monitor Current (PD)	I_m	P_0 , $V_{RD} = 1\text{V}$	0.1	0.5	-	mA
Dark Current (PD)	I_d	$V_{RD}=10\text{V}$	-	-	0.1	uA

PIN Photodiode($T=25^\circ\text{C}$)

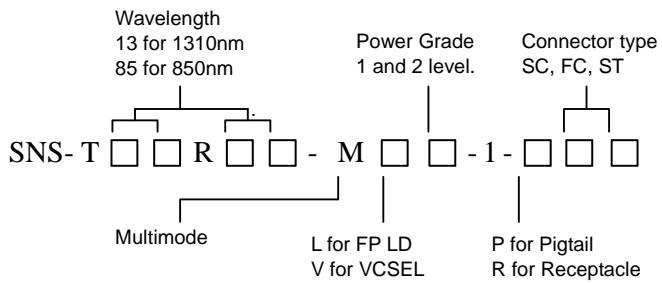
Parameter	Symbol	Test Conditions	Min.	Typical	Max.	Unit
Responsivity(50/125um)	R	1310nm 850nm	0.6 0.3			A/W
Dark Current	I_d				1	nA
Capacitance	C_t			0.7	0.8	pF

Absolute Maximum Ratings ($T=25^\circ\text{C}$)

Parameter	Symbol	Min.	Max.	Unit
Forward Current (LD)	I_{op}	-	85 15	mA
Reverse Voltage (LD)	V_{RL}	-	2 10	V
Forward Current (PD)	I_{FD}	-	2	mA
Reverse Voltage (PD)	V_{RD}	-	20	V
Operating Temperature	T_o	-40	85	°C
Storage Temperature	T_{sta}	-40	100	°C
Lead Soldering Temperature (10 sec)	T_L	-	260	°C

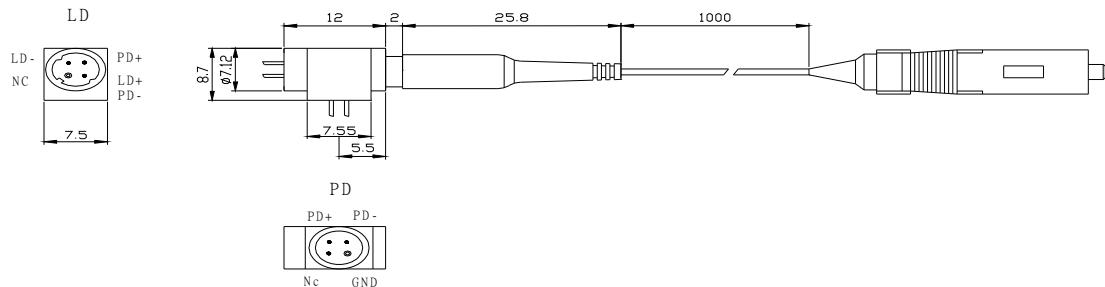
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Ordering Information:

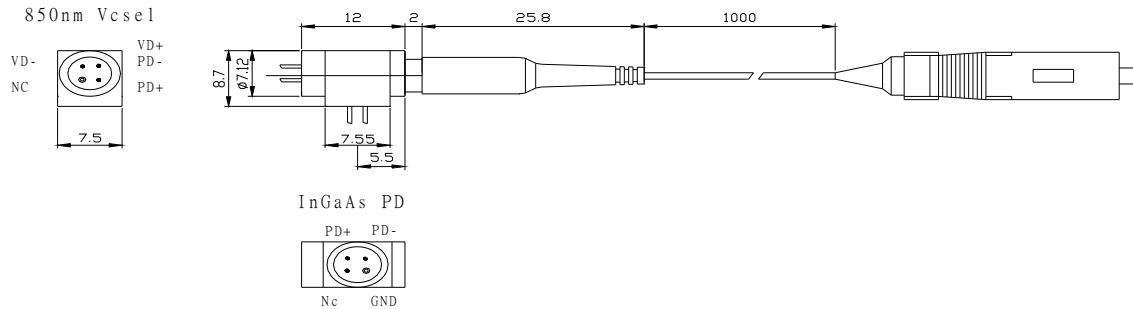


Outline Dimension :

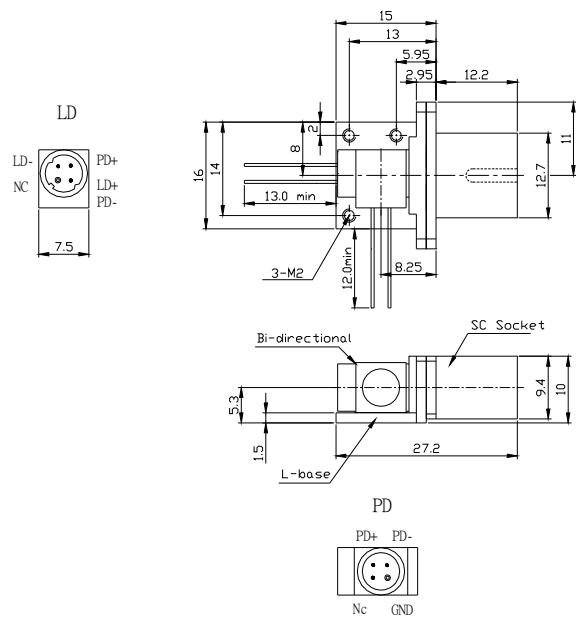
Pigtailed :



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Receptacle (SC) :



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