Single Mode 1310/1550nm Bi-directional Single Fiber Module with PD

Laser Diode (T= 25°C)

Parameter	Symbol	Test Conditions	Min	Typical	Max	Units
Data Rate			-		1.25G	b/s
Center Wavelength	λ	P_0 -40 to 85ºC	1260	1310	1360	nm
			1491	1550	1606	
Spectral Width	Δλ	P_0, (RMS, -20dB)	-	1	2	nm
			-	1	3	
Threshold Current	I_{th}	P_0, 25ºC		5	15	mA
				10	15	
Operating Voltage	V_{op}	P_0	-	1.1	1.5	V
			-	1.1	1.5	
Rise/fall Time	t_r / t_f	10-90%	-	0.3	0.7	ns
			-	0.3	0.7	
Optical Output Power	P_0	1310nm,I_{th}+20mA1 1550nm,I_{th}+30mA				
-1			0.1	-	0.4	mW
-2			0.4	-	0.7	mW
-3			0.7	-	1.2	mW
Monitor Current (PD)	I_m	P_0 ,V_{RD} =1V	0.1	0.5	-	mA
Dark Current (PD)	I_d	V_{RD}=10V	-	-	0.1	uA
Tracking Error	E_t	-40 to 85ºC	-	±1.0	-	dB

PIN PD (T=25ºC, V= 4.75 to 5.25V DC or 3.1 to 3.5V DC)

Parameter	Symbol	Min.	Typical	Max.	Unit
Data Rate	B	100M	-	1.25G	b/s
Optical Input Responsivity	R	0.7			A/W.
Dark Current (V_R=2V)	Id	-	-	1	nA

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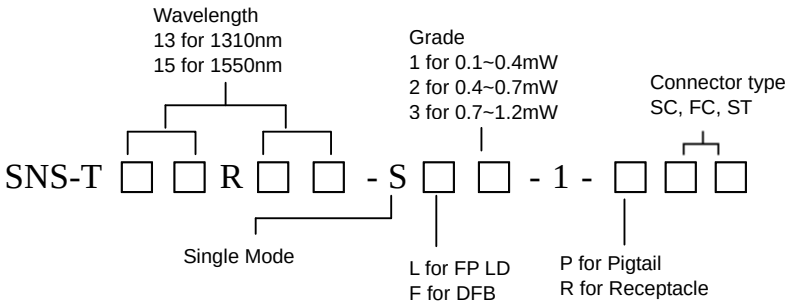
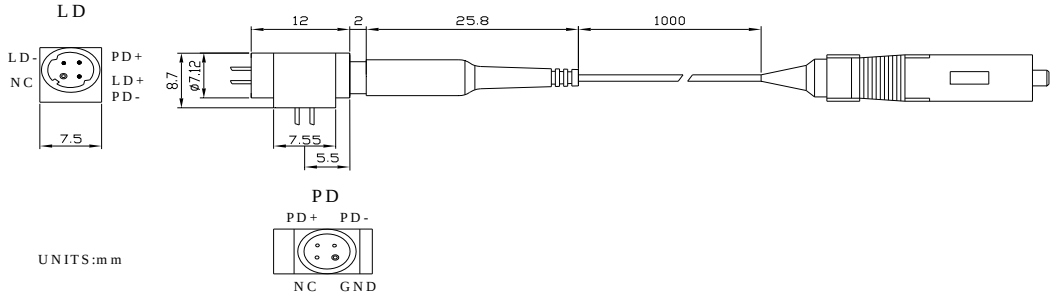
Absolute Maximum Ratings (T=25ºC)

Parameter	Symbol	Min.	Max.	Unit
Forward Current (LD)	I_{op}	-	85	mA
Reverse Voltage (LD)	V_{RL}	-	2	V
Forward Current (PD)	I_{FD}	-	2	mA
Reverse Voltage (PD)	V_{RD}	-	20	V
Operating Temperature	T_O	-40	85	ºC
Storage Temperature	T_{stg}	-40	125	ºC
Lead Soldering Temperature (10 sec)	T_L	-	260	ºC

Ordering Information



Pigtailed：



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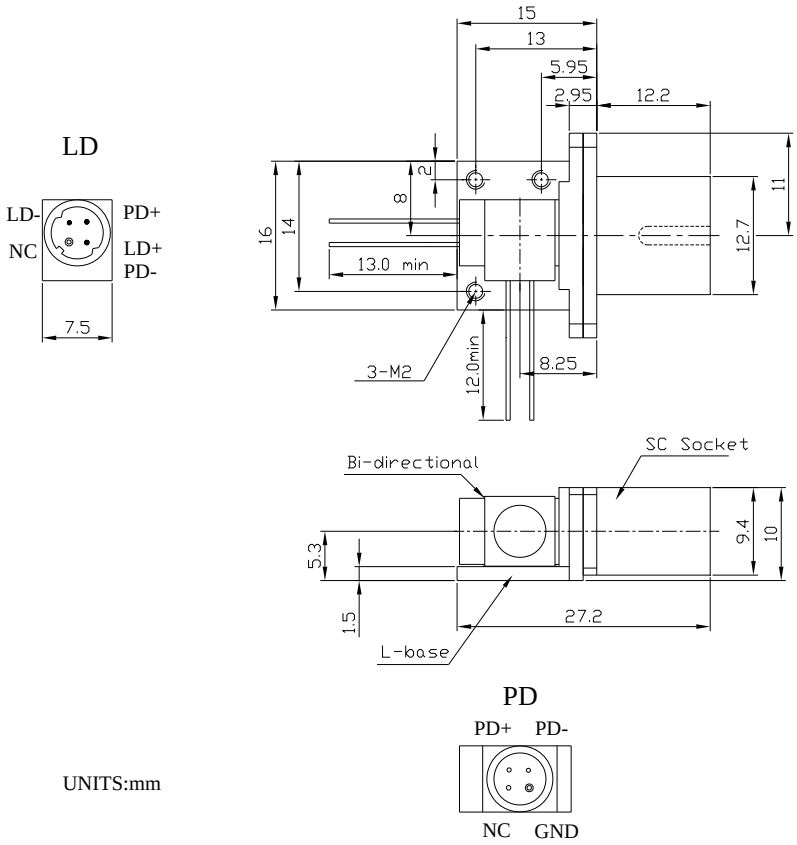
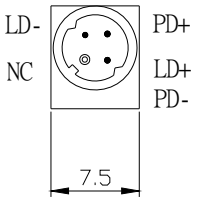
Receptacle（SC）:

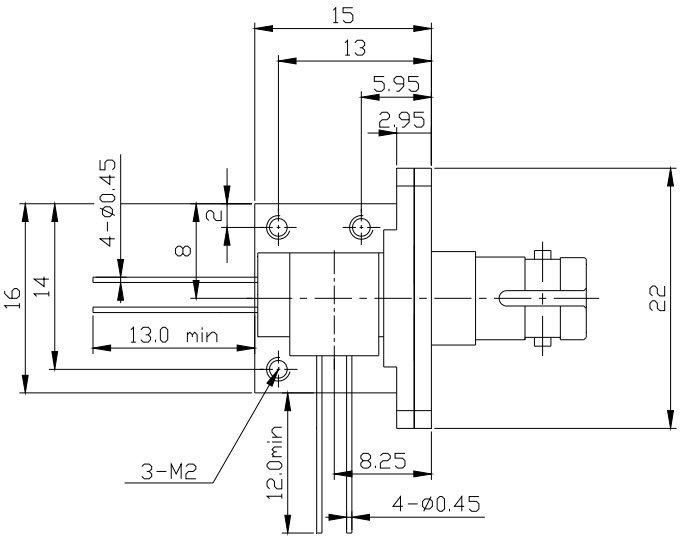


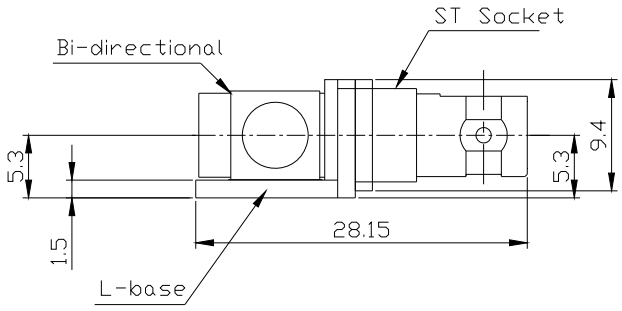
UNITS:mm

Single Mode 1310/1550nm Single Fiber Module (PD)

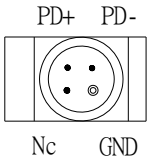
LD







PD



UNITS:mm

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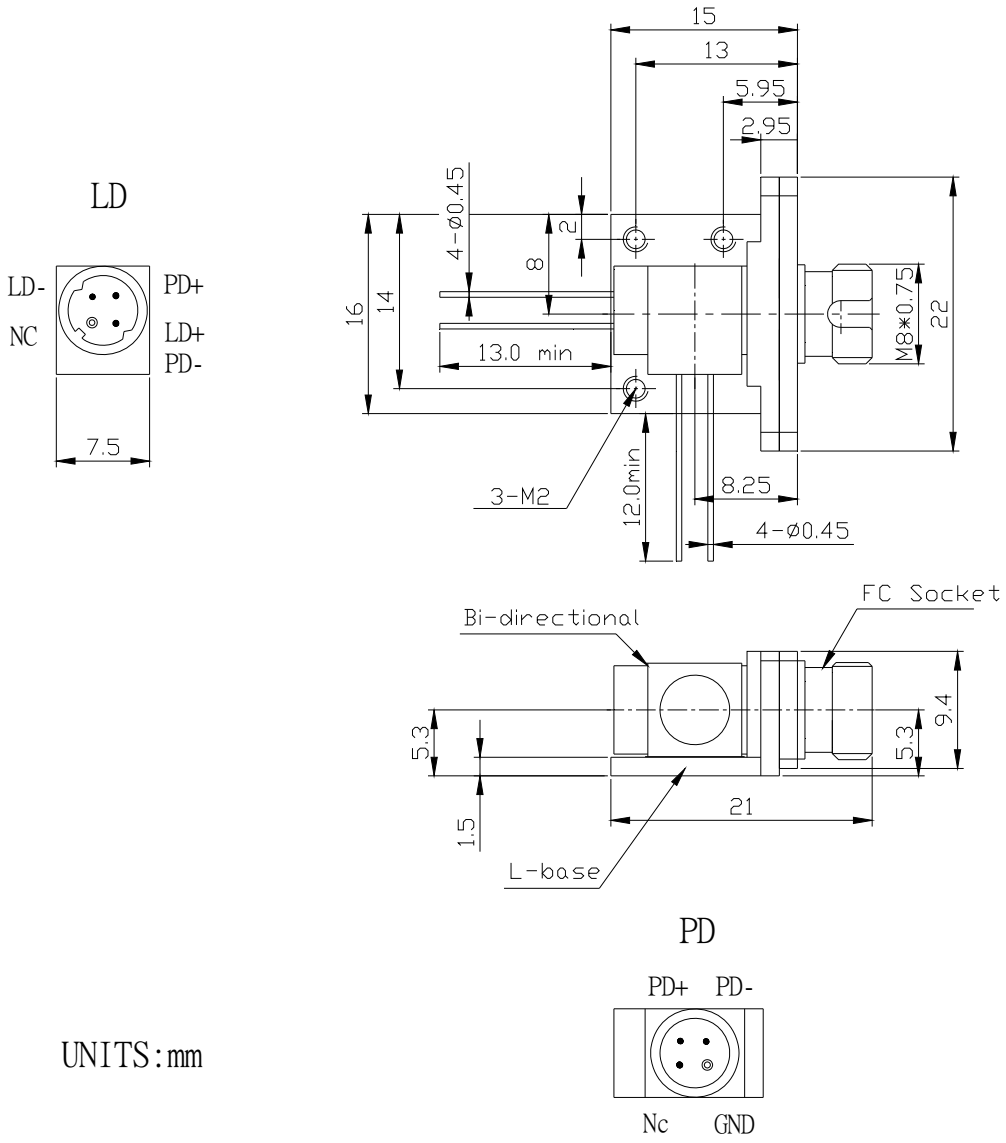

UNITS:mm