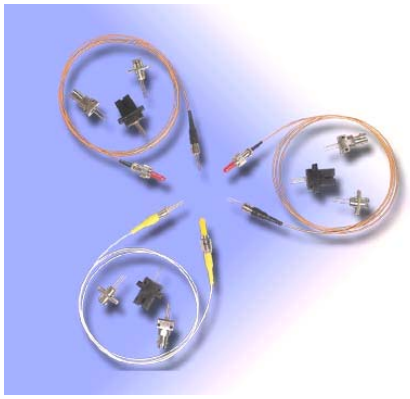
650nm Laser Diode SM Module

Features

- Center wavelength 650nm
- Built-in monitor detector
- Operating temperature -10°C to 50°C
- Hermetically sealed TO-18 package in pigtailed or receptacle housing with FC, ST or SC connector



Applications

- Test instruments

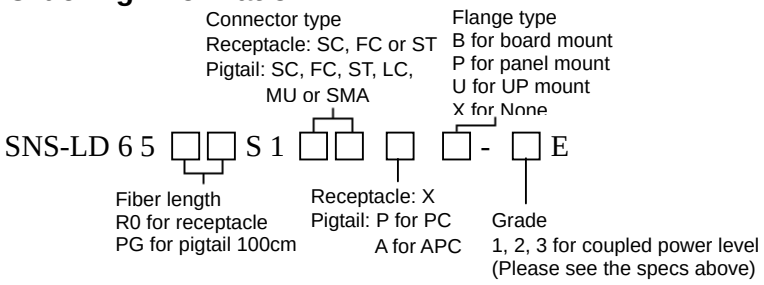
Specifications (T=25°C)

Parameter	Symbol	Test Conditions	Min	Typical	Max	Units
Center Wavelength	λ	P_0	645	650	660	nm
Threshold Current	I_{th}	-	-	20	40	mA
Operating Voltage	V_{op}	P_0	-	2.2	2.6	V
Optical Output Power	P_0	I_{op} =30mA				
-1			0.1	0.25	-	mW
-2			0.4	0.55	-	mW
-3			0.7	0.85	-	mW
-4			2	-	-	mW
Monitor Current (PD)	I_m	P_0 ,V_{RD} =5V	0.05	0.2	-	mA
Tracking Error	E_t	-40 to 85 °C	-	±1.0	-	dB

Absolute Maximum Ratings (T=25°C)

Parameter	Symbol	Min.	Max.	Unit
Forward Current (LD)	I_{op}	-	50	m A
Reverse Voltage (LD)	V_{RL}	-	2	V
Reverse Voltage (PD)	V_{RD}	-	30	V
Operating Temperature	To	-10	+50	°C
Storage Temperature	T_{stg}	-40	+85	°C
Lead Soldering Temperature (10 sec)	T_L	-	260	°C

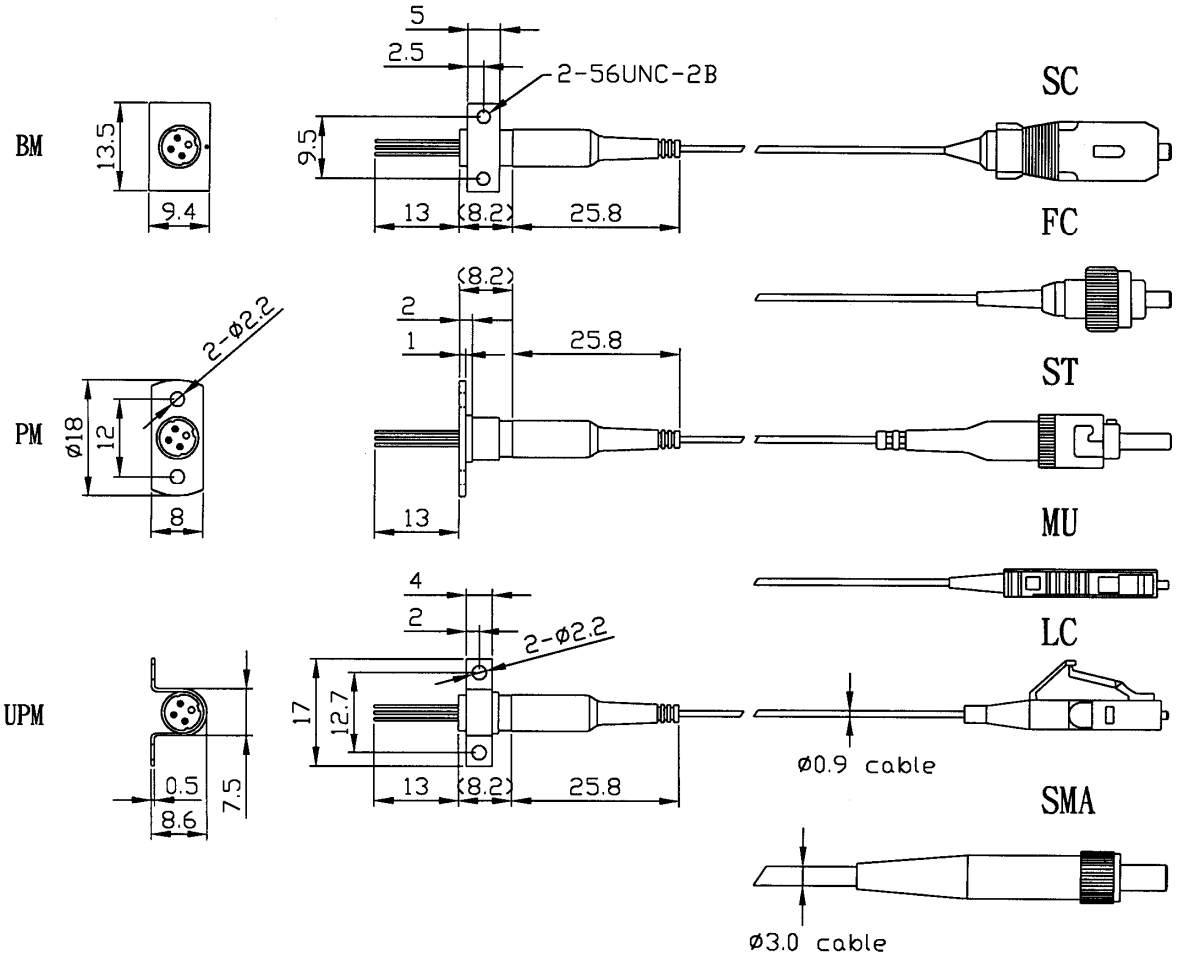
Ordering Information



Pin Connections

Dimension

Pigtail Type



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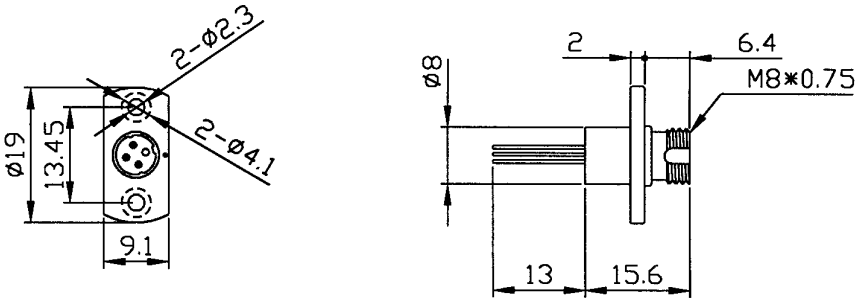
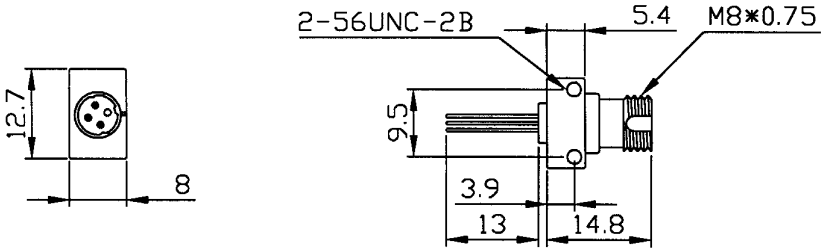
Receptacle Type

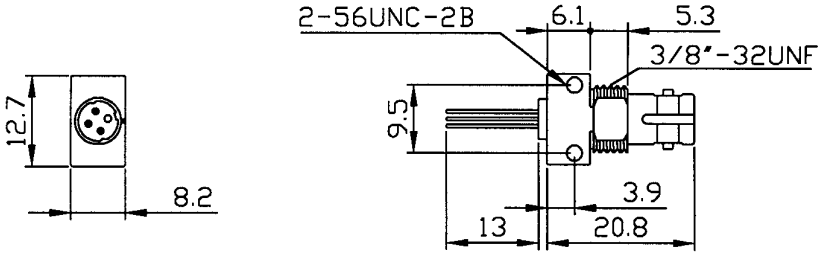
FC-PM



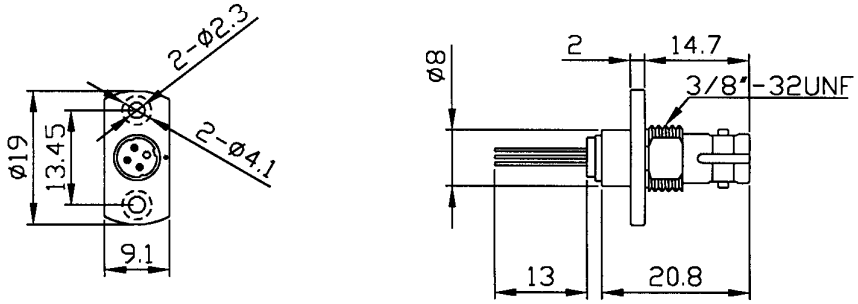
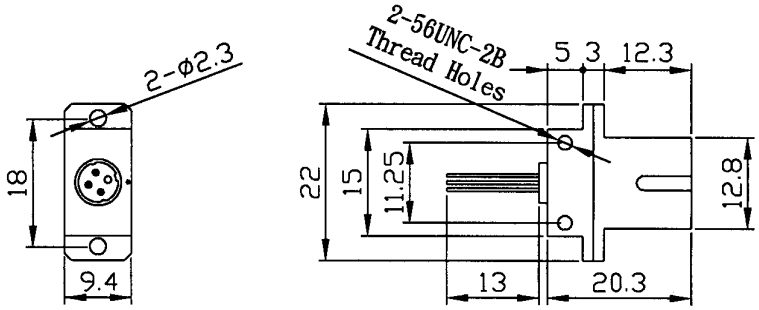
FC-BM



ST-BM



ST-PM



SC