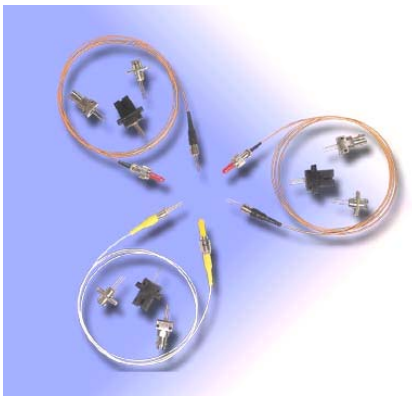
850nm VCSEL MM Module

Features

- High coupled power
- Peak wavelength 850nm
- Low threshold current 3mA
- High speed t_r, t_f < 0.3ns
- Operating temperature range 0°C to 70°C
- Hermetically sealed To -46 package in pigtailed or receptacle housing with FC, ST or SC connector



Applications

- Gigabit Ethernet

Specifications (T=25 °C)

Parameter	Symbol	Test Conditions	Min	Typical	Max	Units
Peak wavelength	λ	I_{op}=12mA	830	850	860	nm
Spectral width FWHN	Δλ	P_0	-	-	0.85	nm
Threshold current	I_{th}	-	-	3	6	mA
Threshold current temperature variation (0 to 70°C)	-	-	-1	-	1	mA
Coupled power (62.5/125µm fiber)	P_0	12mA				
-1			0.5	0.65	-	mW
-2			2	2.5	-	mW
Coupled power (50/125µm fiber)	P_0	12mA				
-1			0.25	0.35	-	mW
-2			1.2	1.5	-	mW
Slope efficiency	SE	P_0	-	0.25	-	mW/mA
Slope efficiency temperature dependence	SE	P_0	-	-0.15	-	%/°C
Monitor Current (PD)	I_m	P_0	0.03	0.1	-	mA
Forward voltage	V_f	P_0	1.7	1.9	2.2	V
Series Resistance	R_s	P_0	-	30	-	Ω

Absolute Maximum Ratings

Parameter	Symbol	Min.	Max.	Unit
Continuous forward current (LD)	I_{op}	-	15	mA
Continuous reverse voltage (LD)	V_{RL}	-	10	V
Operating temperature	T_O	0	85	°C
Storage temperature	T_{stg}	-40	100	°C
Lead soldering temperature (10 sec)	T_L	-	260	°C

Ordering Information

Fiber length
R0 for receptacle
PG for pigtail 100cm

Connector type
Receptacle: SC, FC or ST
Pigtail: SC, FC, ST, LC, MU or SMA

Flange type
B for Board Mount
P for Panel Mount
U for UP Mount
X for None

SNS-V D 8 5 □□ M 2 □□ □ □ - □

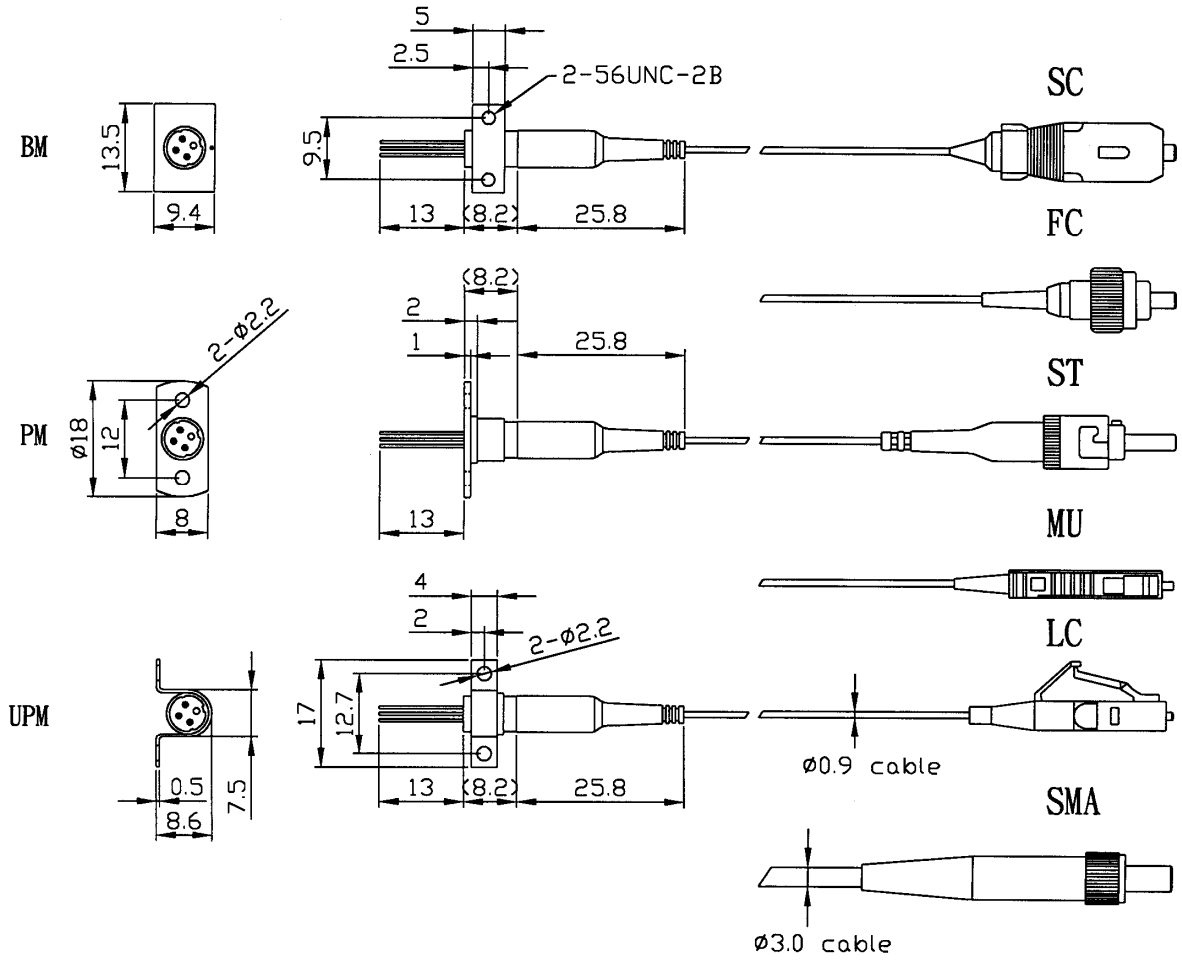
Receptacle: X
Pigtail: P for PC
A for APC

Grade
1,2 for coupled power level
(please see the specs above)

Pin Connections

Dimension

Pigtail Type



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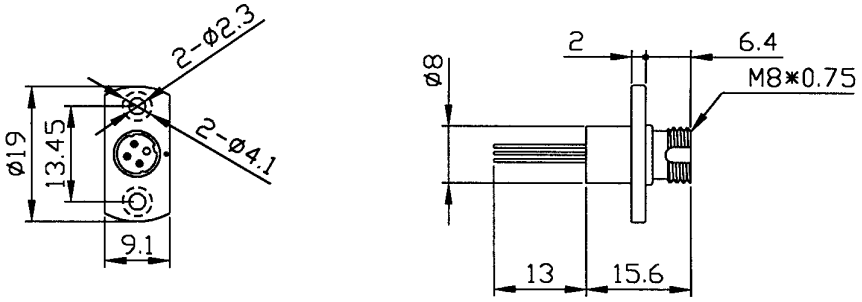
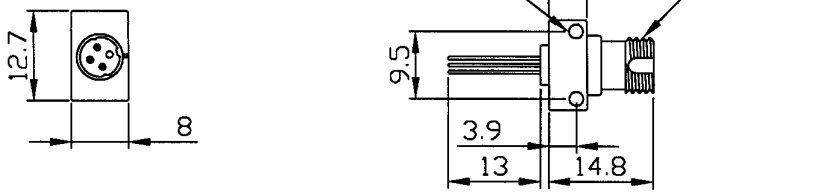
Receptacle

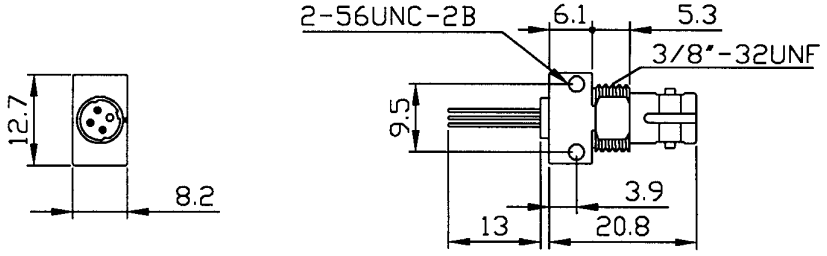
FC-PM



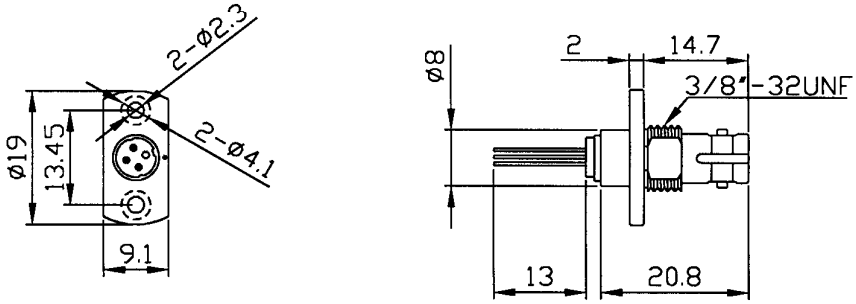
FC-BM



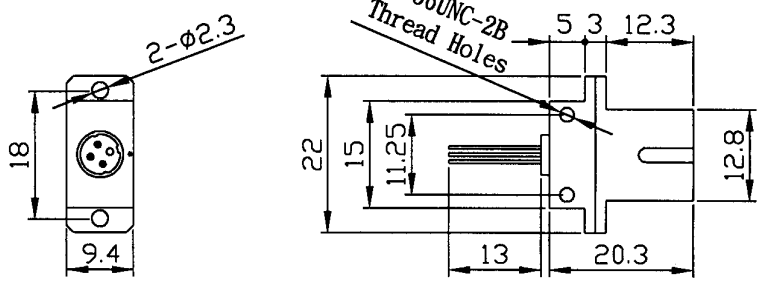
ST-BM



ST-PM



SC



Type