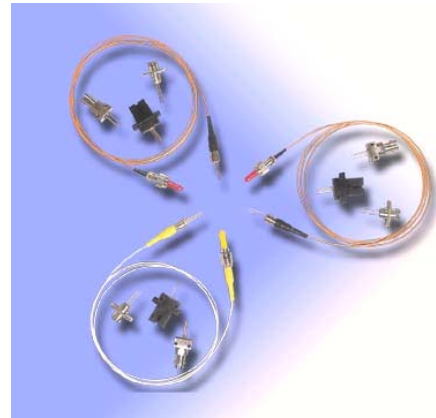


850nm LED Module

Features

- High coupled power
- Peak wavelength 850 nm
- High reliability
- Data rate up to 200 Mb/s
- Operating temperature range -40°C to 85°C
- Hermetically sealed To-46 package in pigtailed or receptacle housing with FC, ST or SC connector



850nm LED Module

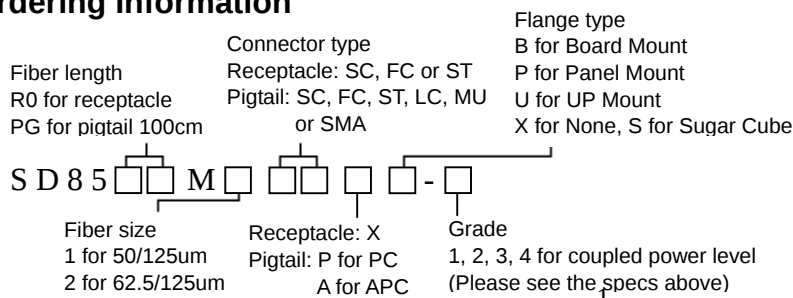
Specifications (100mA forward current, 25°C)

Parameter	Symbol	Min	Typical	Max	Units
Peak Wavelength	λ	820	850	870	nm
Spectral Width FWHM	$\Delta\lambda$	-	60	-	nm
Coupled Power (62.5/125 μ m fiber)					
-1	Po	20	25	40	μ W
-2	Po	40	55	70	μ W
-3	Po	100	125	150	μ W
-4	Po	150	175	-	μ W
Coupled Power (50/125 μ m fiber)					
-1	Po	10	13	20	μ W
-2	Po	20	27	35	μ W
-3	Po	50	60	75	μ W
-4	Po	75	100	-	μ W
Forward Voltage	V _F	-	1.8	2.2	V
Rise/Fall Time	-1 & -2	tr/tf	-	7	ns
	-3 & -4	tr/tf	-	4	ns
Bandwidth	-1 & -2	fc	-	60	MHz
	-3 & -4	fc	-	175	MHz
Data Rate	-1 & -2	B	-	155	Mb/s
	-3 & -4	B	-	230	Mb/s

Absolute Maximum Ratings

Parameter	Symbol	Min.	Max.	Unit
Operating Temperature	T _o	-40	+85	°C
Storage Temperature	T _{stg}	-55	+125	°C
Reverse Voltage	V _R	-	1.5	V
Continuous Forward Current	I _{co}	-	120	mA
Peak Forward Current (duty cycle < 50%, f>1MHz)	I _{po}	-	150	mA
Lead Soldering Temperature (10 sec)	T _L	-	260	°C

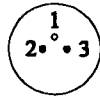
Ordering Information



850nm LED Module

Pin Connections

BOTTOM VIEW

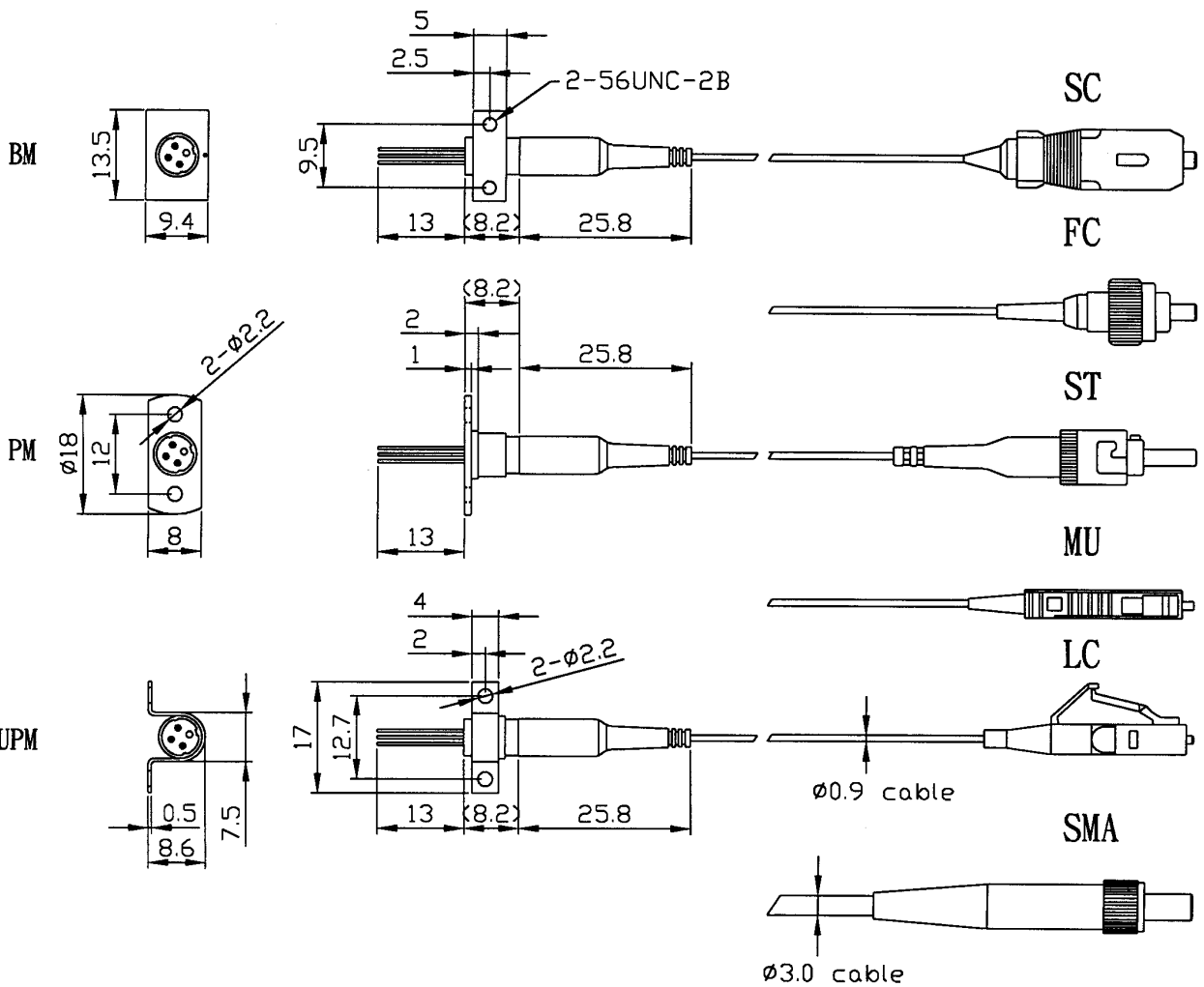


UNIT : MM

1 CASE

2 ← → 3

Dimension

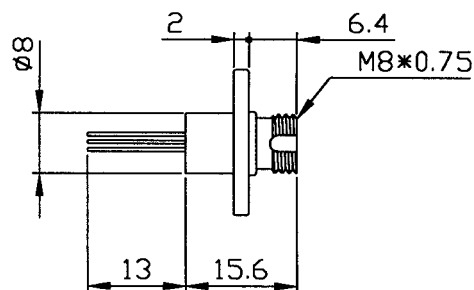
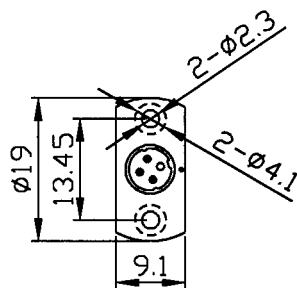


850nm LED Module

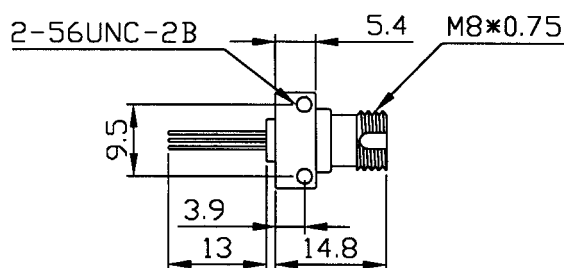
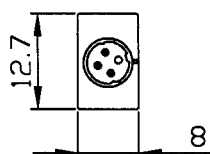
Receptacle Type

850nm LED Module

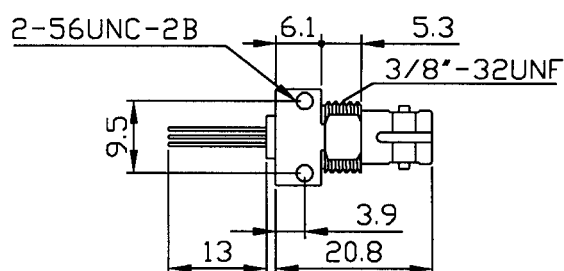
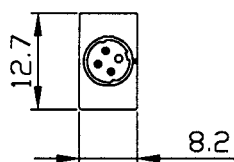
FC-PM



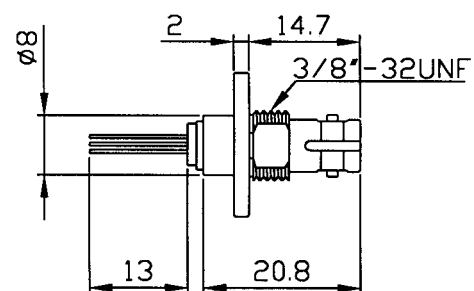
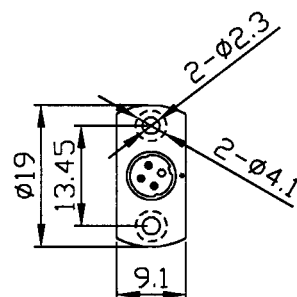
FC-BM



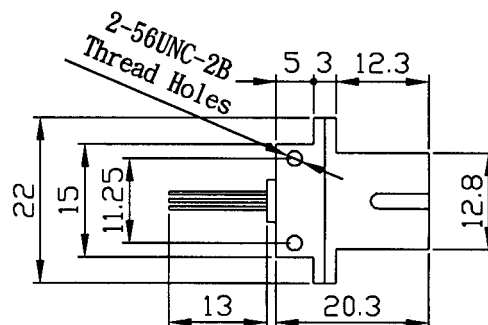
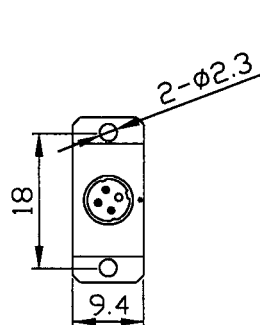
ST-BM



ST-PM



SC



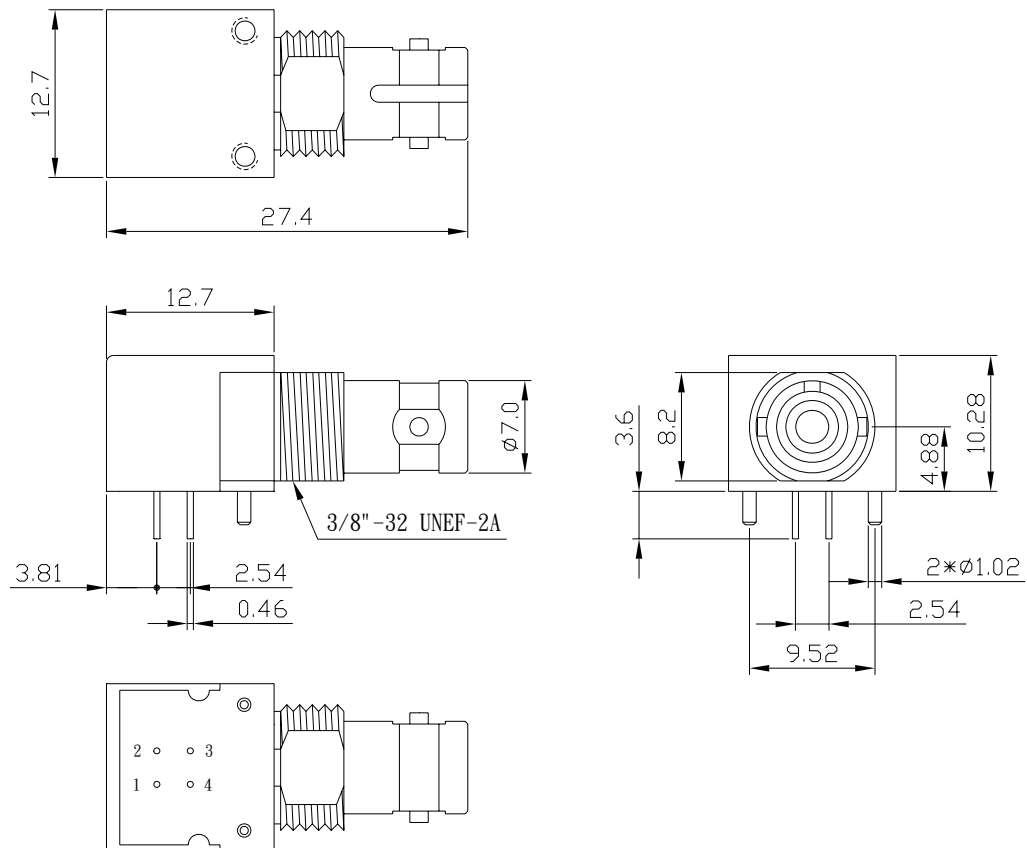
850nm LED Module

Sugar Cube

Pin Connections

PIN	FUNCTION
1	ANODE
2	CATHODE
3	ANODE
4	ANODE

Dimension (ST Receptacle) Unit mm

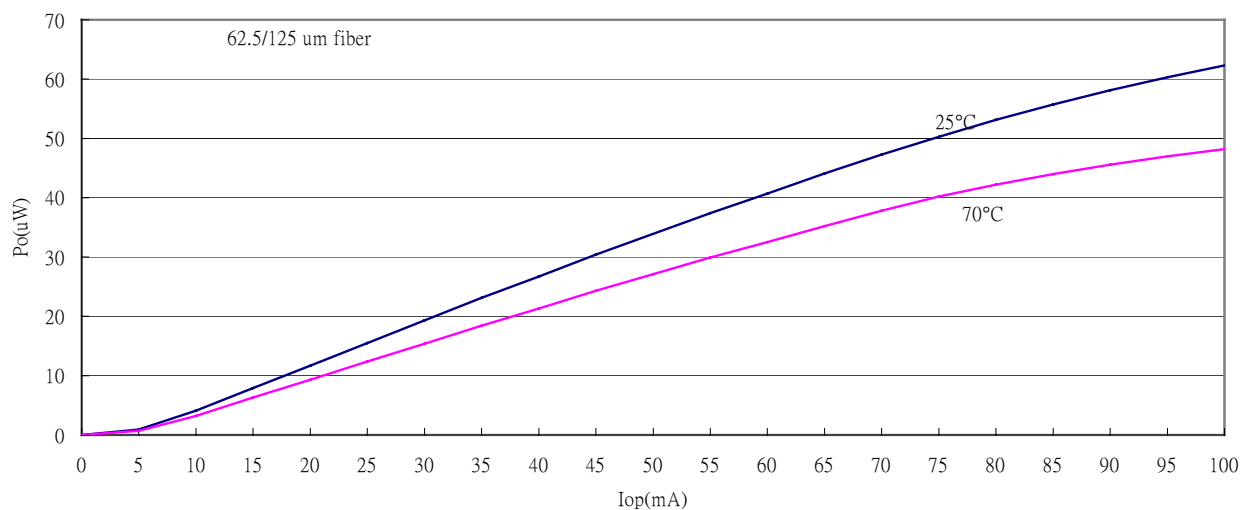


Units:mm

850nm LED Module

850nm LED Module

850nm LED (-2 Grade)
Po vs Iop



850nm LED (-4 Grade)
Iop-Po Curve

