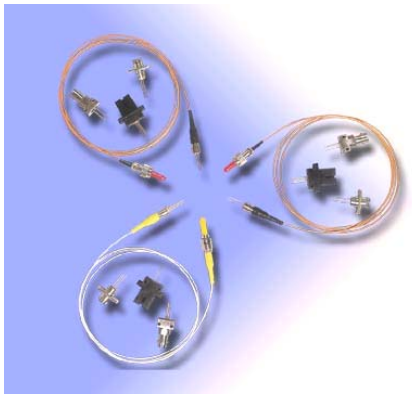
1550nm ELED Module

1550nm ELED Module

Features

- High coupled power
- Peak wavelength 1550 nm
- 3 dB bandwidth >40 nm
- Cut off frequency > 150 MHz
- Operating temperature range 0°C to 70°C
- Hermetically sealed TO package in pigtailed or receptacle housing with FC, ST or SC connector



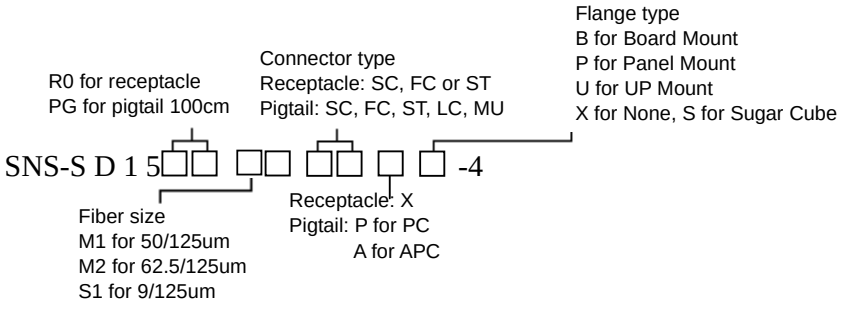
Specifications (100mA forward current, 25 °C)

Parameter	Symbol	Min	Typical	Max	Units
Peak Wavelength	λ	1530	1550	1570	nm
Spectral width FWHM	Δλ	-	-	40	nm
Coupled power to 62.5 μm fiber	Po	-	300	-	μW
Coupled power to 50 μm fiber	Po	-	300	-	μW
Coupled power to 9 μm fiber	Po	200	-	-	μW
Forward voltage	V_F	-	-	2	V
Rise/fall time (10% to 90%)	tr/tf	-	-	3	ns
Cut off frequency (Iop=100 mA, 20mA p-p)	B	150	-	-	Mb/s

Absolute Maximum Ratings

Parameter	Symbol	Min.	Max.	Unit
Operating temperature	To	0	+70	°C
Storage temperature	T_{stg}	-40	+85	°C
Reverse voltage	V_R	-	2	V
Forward current	Iop	-	150	mA
Lead Soldering Temperature (10sec)	T_L	-	260	°C

Ordering Information



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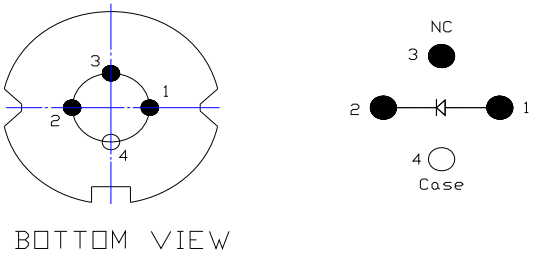
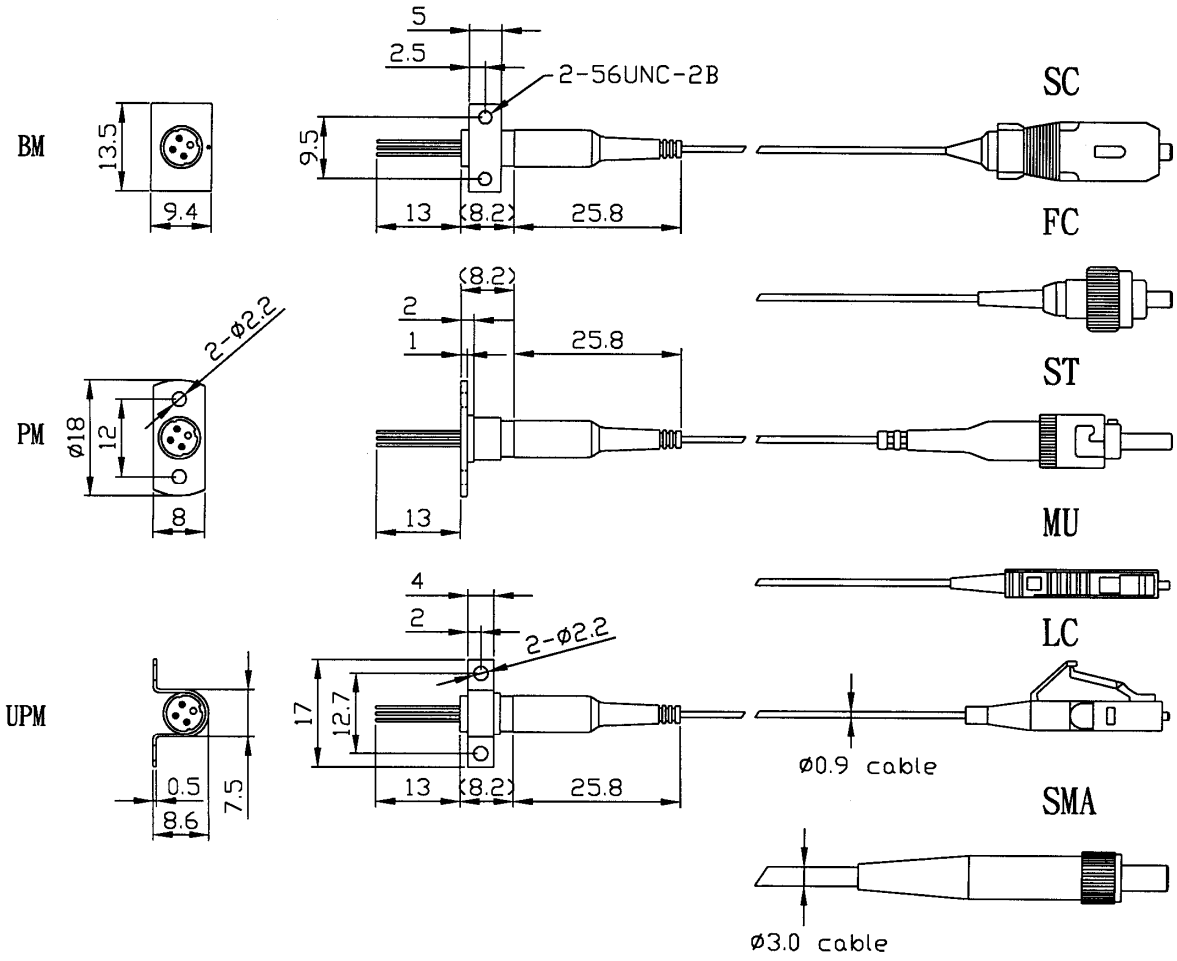
Pin Connections



Dimension

Pigtail Type



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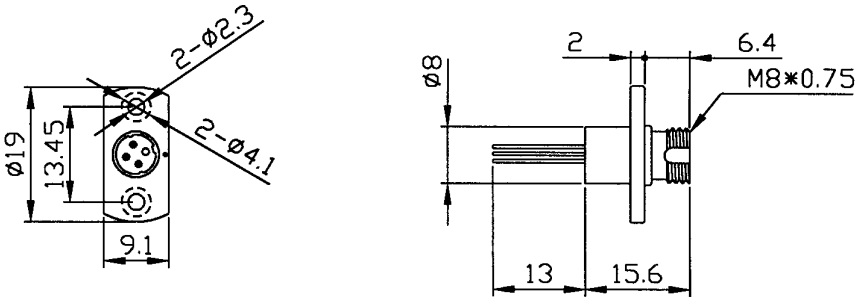
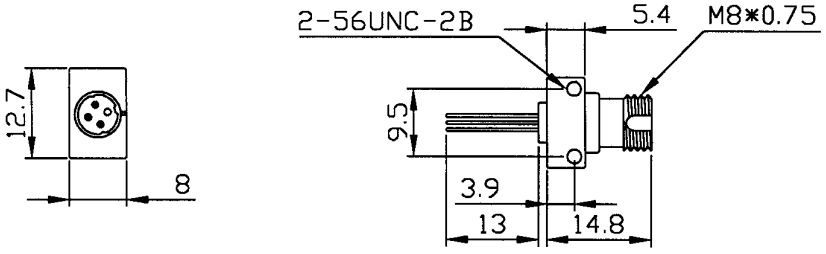
Receptacle Type

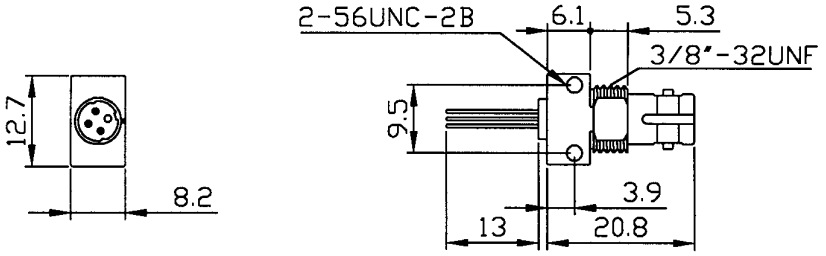
FC-PM



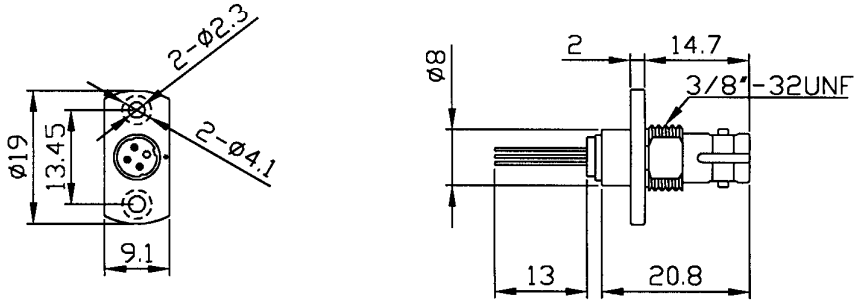
FC-BM



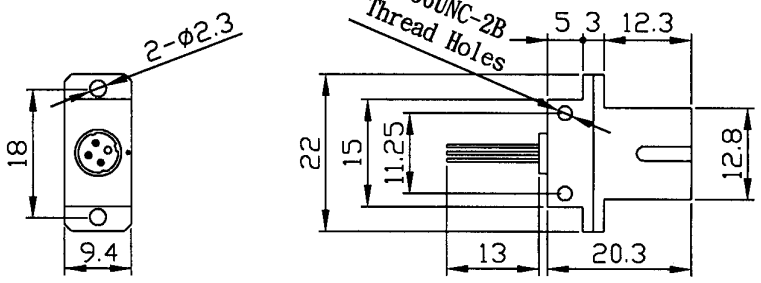
ST-BM



ST-PM



SC

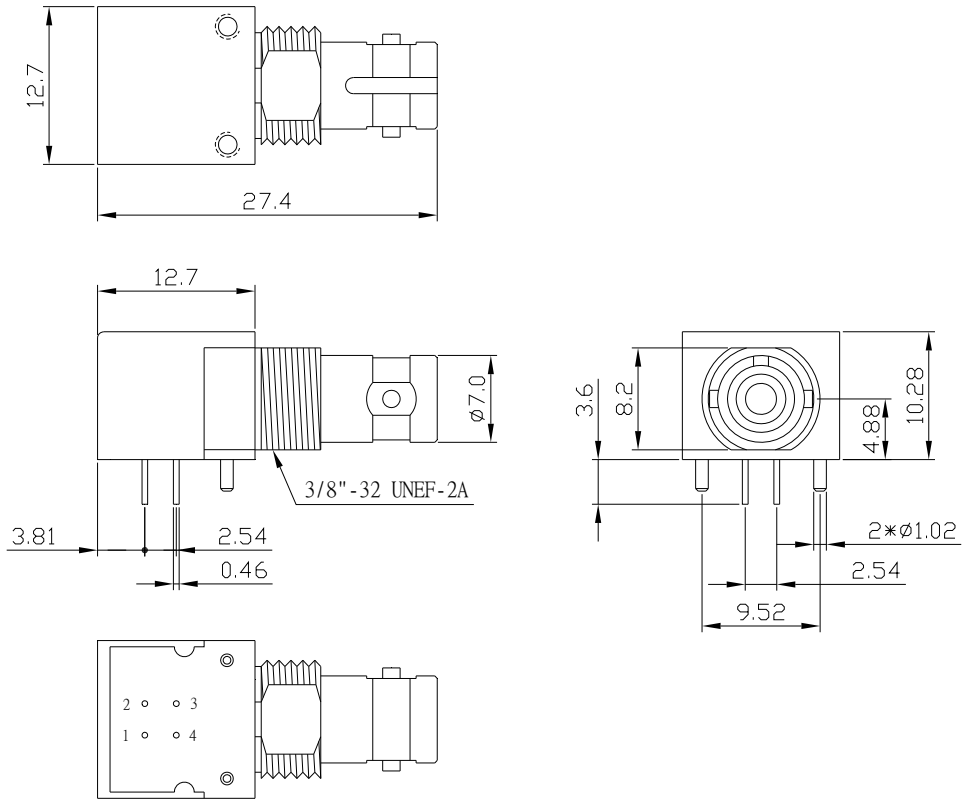


Sugar Cube

Pin Connections

PIN No.	FUNCTION
1	ANODE
2	CATHODE
3	ANODE
4	ANODE

Dimension (ST Receptacle) Unit mm



Units:mm

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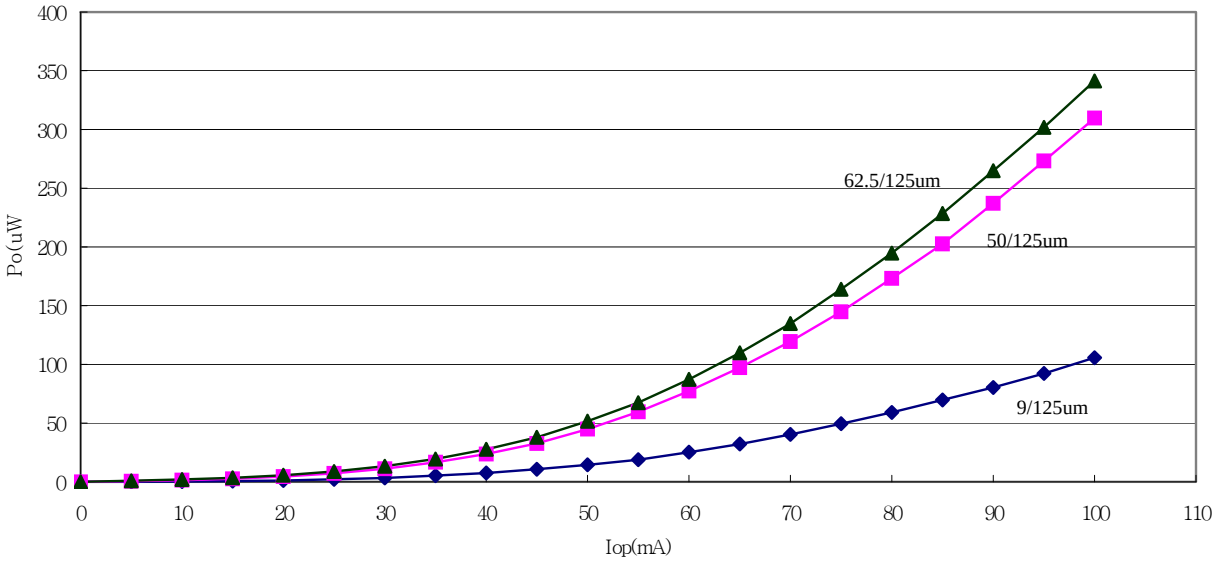
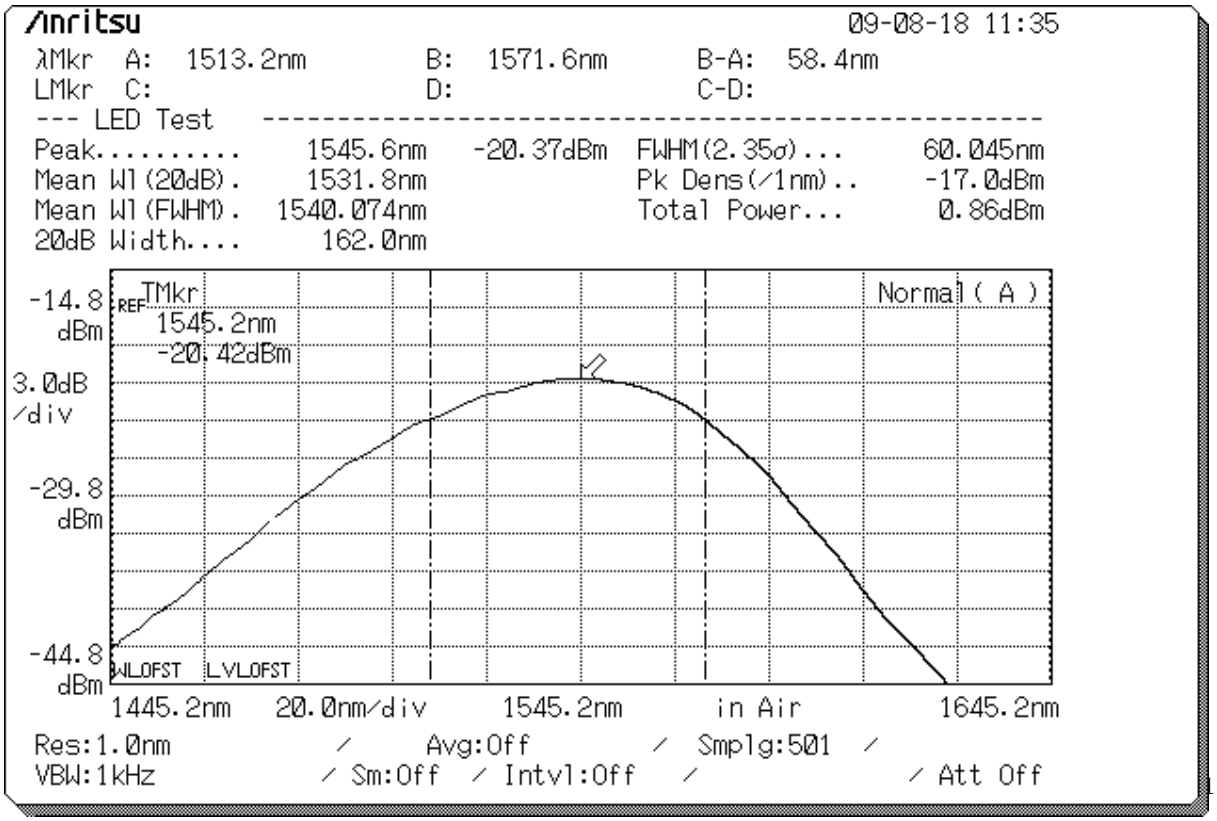
1550nm ELED Module Power-Iop Curve



1550 ELED Optical Spectrum