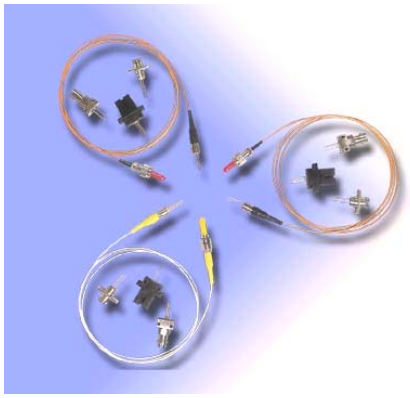
GaAs PIN-TIA Module

Features

- High sensitivity
- Wide dynamic range
- Differential output
- Operating temperature range 0°C to 70°C
- Single supply 3.3V/5V
- Hermetically sealed TO-46 package in pigtailed or receptacle housing with FC, ST or SC connector



Applications

- LANS
- ATM
- FDDI
- SONET/SDH
- Gigabit Ethernet

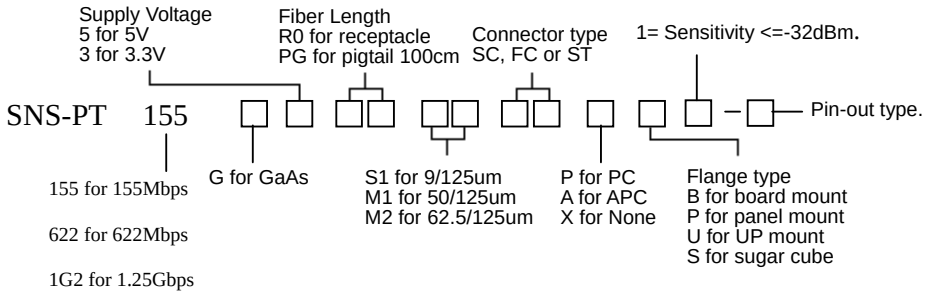
Specifications (T=25°C +5V or +3.3V)

Parameter		Symbol	Min.	Typ.	Max.	Unit
Bit Rate		B				
155 Mbps				155		Mbps
622 Mbps				622		Mbps
1.25 Gbps				1250		Mbps
Spectral Range		λ	850	-	950	nm
Sensitivity		S				
155 Mbps					-32	dBm
622 Mbps					-23	dBm
1.25 Gbps					-20	dBm
Input overload		P_{OL}	-3	0	-	dBm
Rise/Fall Time		T_R / T_F		3	4.5	ns
Common mode output voltage	for 3.3V	V_{CM}		1.7		V
	for 5.0V		1.5	2.5	3.5	V
Differential output voltage	for 3.3V	V_D			0.8	V
	for 5.0V				1.2	V
Power supply	for 3.3V	Vcc	3	3.3	3.6	V
	for 5V		4.5	5	5.5	V
Power supply current	3.3V	Iop	-	-	32	mA
	5 V				40	

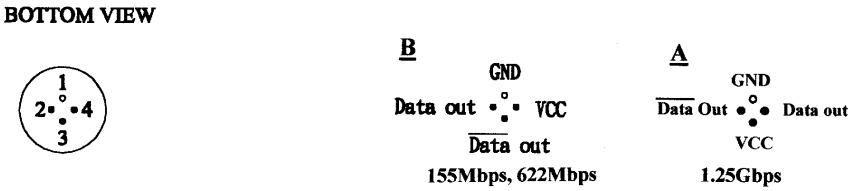
Absolute Maximum Rating

	Symbol	Min.	Max.	Unit
Operating temperature	To	-40	85	°C
Storage temperature	T_{stg}	-55	85	°C
Operating voltage	V_F	0	6.0	V
Optical input power	P_{OL}	-	+3	dBm
Lead Soldering Temperature (10 sec)	T_L	-	260	°C

Ordering Information

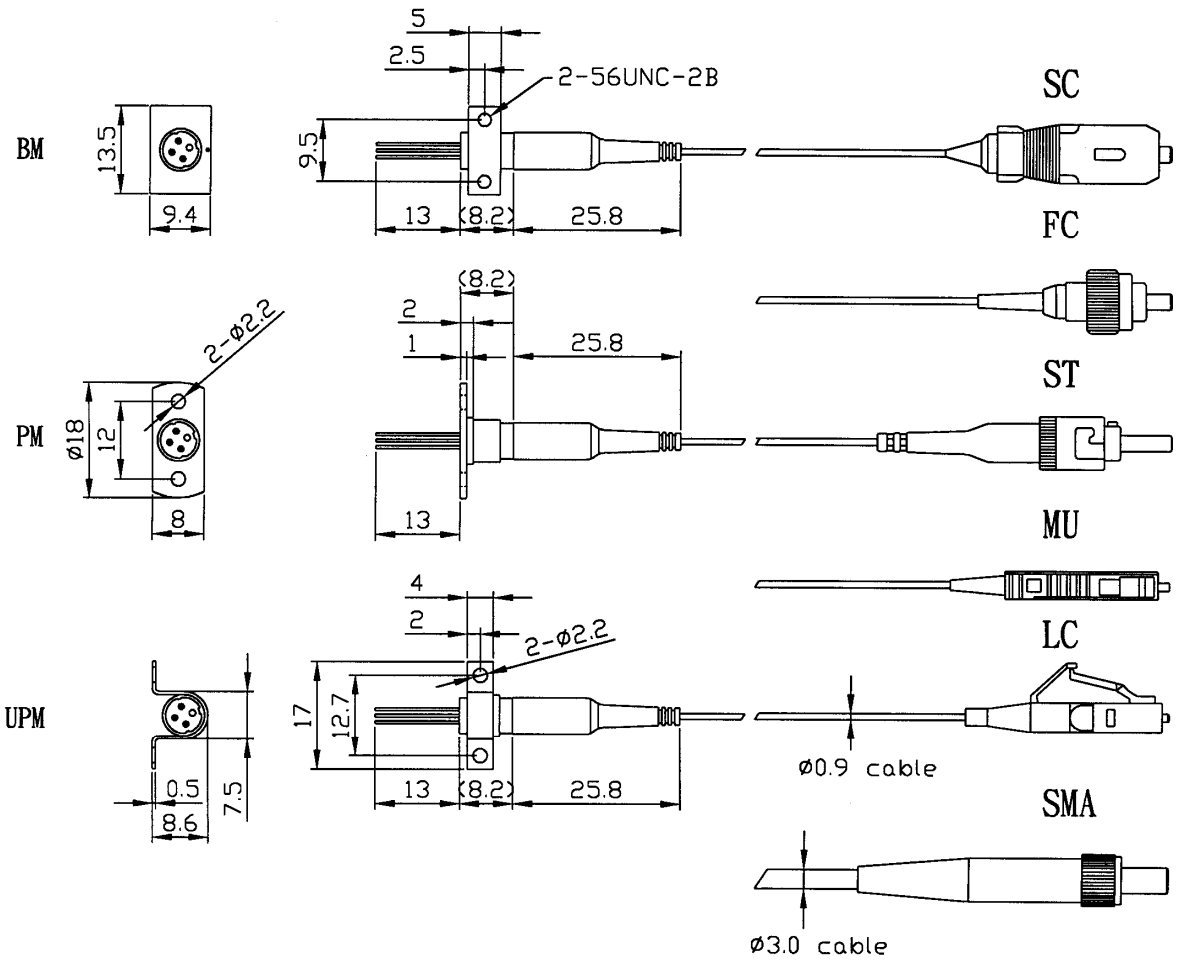


Pin Connections



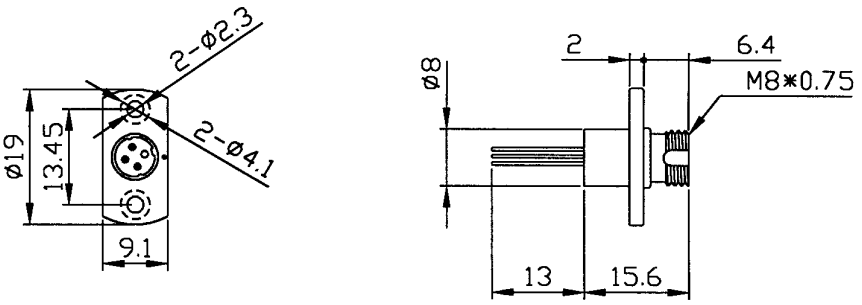
Dimension

Pigtail Type

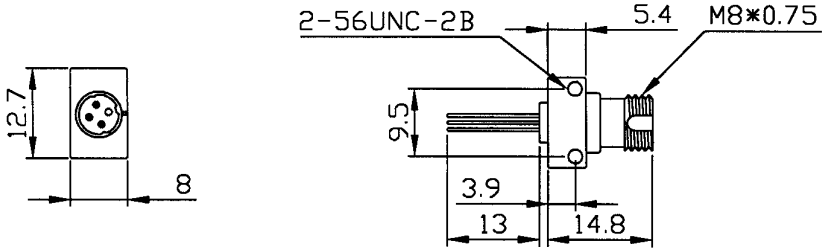


Receptacle Type

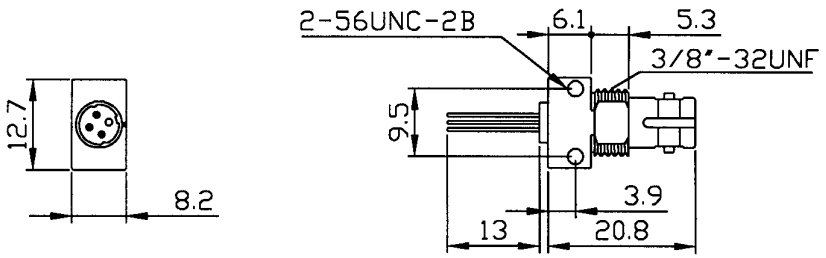
FC-PM



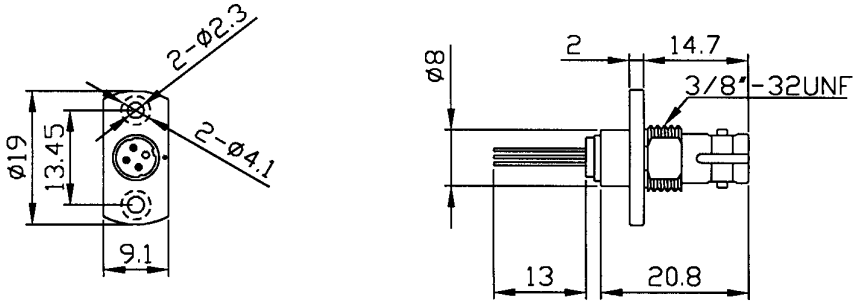
FC-BM



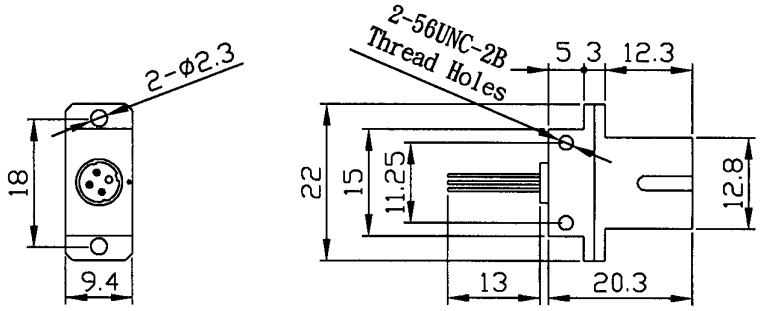
ST-BM



ST-PM

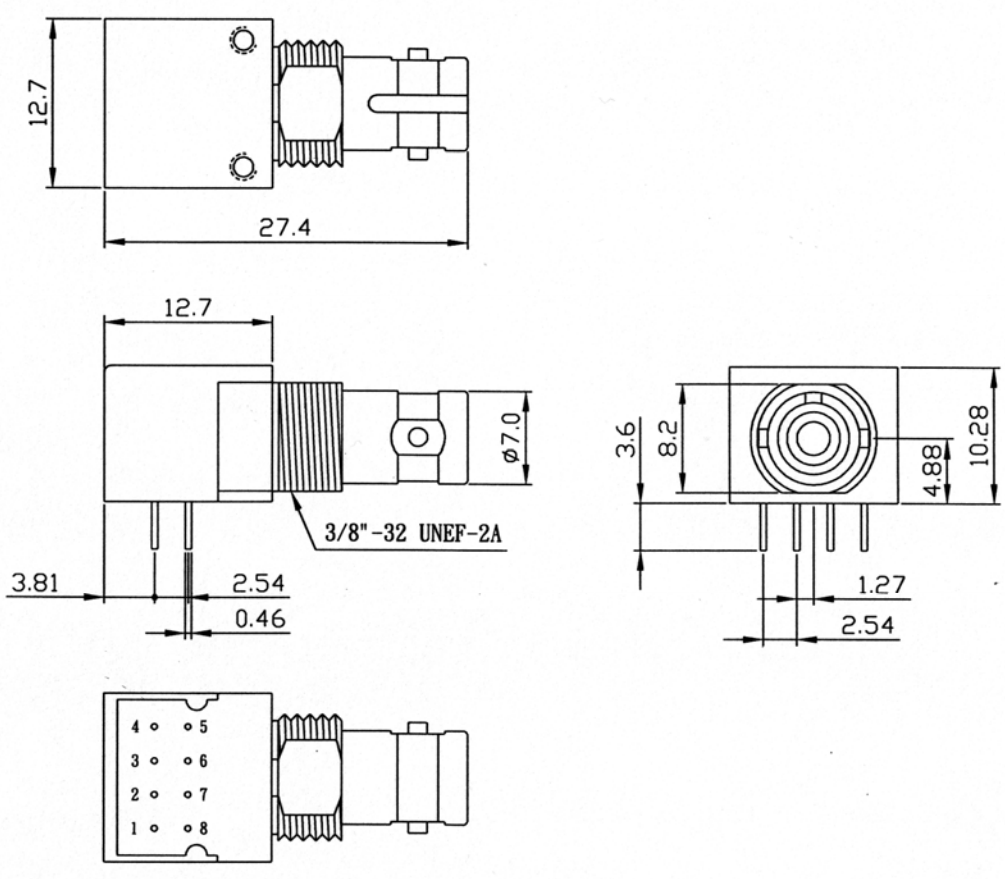


SC



Sugar Cube

Pin Connections

PIN No.	FUNCTION
1	NC
2	SIGNAL
3	Vee (Gnd)
4	NC
5	NC
6	Vcc
7	Vee (Gnd)
8	NC

Dimension (ST Receptacle) Unit mm