



R13-RYZ-1

1.25Gbps Receptacle InGaAs/InP PIN Photodiode Receivers

Description

The Lasermate R13-RYZ-1 is a 1100-1630nm wavelength range, InGaAs PIN photodiode receiver module. The InGaAs/InP PIN photodiode optical module is available in receptacle style housing with FC or ST connector. The detector module is capable of reaching up to 1.25Gbps data rate operation.



Features

- Plane structure InGaAs PD with high linearity
- High speed
- High Responsivity at 1310nm and 1550nm
- Low dark current
- Low capacitance
- Low return loss

Packaging

- FC/ST receptacle package

Applications

- SONET OC3, OC-12 / SDH STM-1, STM-4
- LAN

Ordering Information

Read Model No.	R13-RYZ-1
R13 = Receiver	InGaAs/InP PIN photodiode
R = Package	Receptacle
Y = Connector	FC/PC (FC) ; ST/PC (ST)
Z = Fiber	9/125um SM fiber (1) , 50/125um MM fiber (2) , 62.5/125um MM fiber (3)

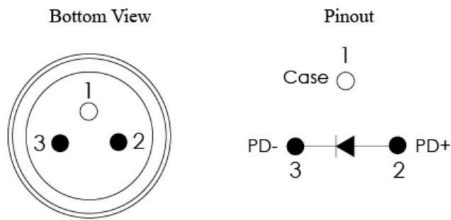


Specifications

Absolute Maximum Ratings			
Parameters	Symbol	Min.	Unit
Storage Temperature	Tstg	-40 to +85	°C
Operating Case Temperature	Top	-40 to +85	°C
Peak Optical Power	Po	3	mW
PD Reverse Voltage	V _{RD}	20	V
PD Forward Current	I _{FD}	10	mA
Soldering Temperature	Stemp	260	°C
Soldering Time	Stime	10	sec

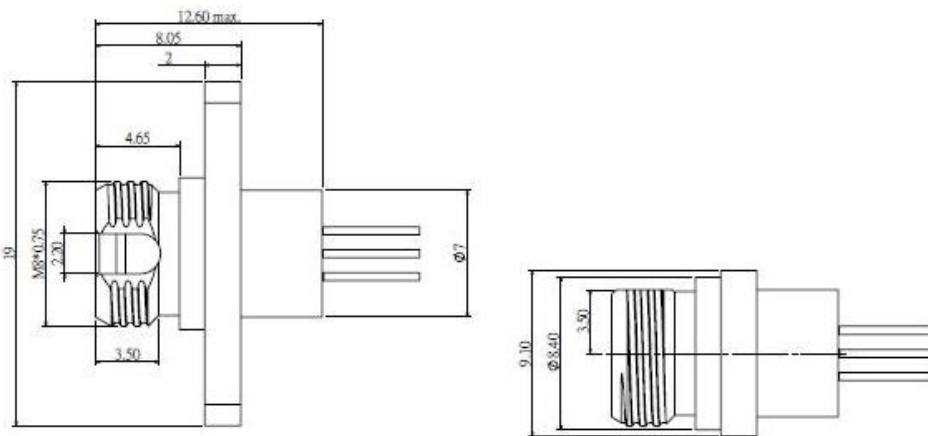
Electro-Optical Characteristics (CW @ T _C = 25°C unless otherwise noted)						
Parameters	Symbol	Min.	Typ.	Max.	Unit	Conditions
Optical Wavelength Range	λ	1100	-	1630	Nm	
Bandwidth	BW	-	1.5	-	GHz	V _R =5V
Responsivity	R	0.8	0.9	-	A/W	λ=1310nm, V _R =5V, P _{in} = 100uW
Dark current	I _d	—	0.2	2.0	nA	V _R =5V
Capacitance	C	—	—	0.5	pF	V _R =5V
Rise/Fall Time	τ _r /τ _f	—	—	300	ps	V _R =5V, 20%~80%

Pin Configuration

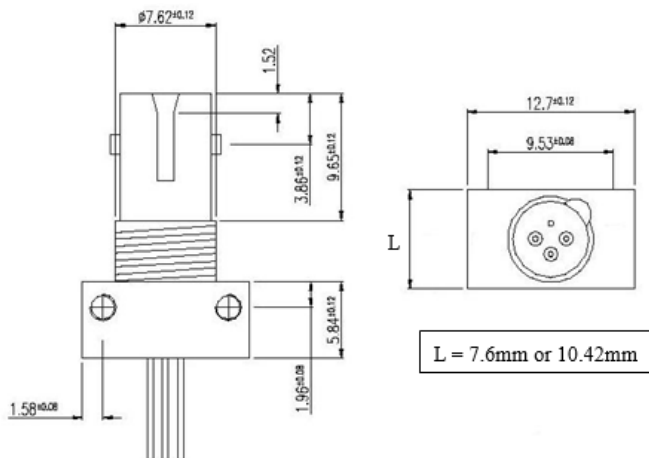


Outline Dimensions (unit: mm)

FC Receptacle



ST Receptacle



Note: Specifications are subject to change without notice.