

1550nm

C-15-002-R-SFCL/M/H
C-15-002-P-SFCL/M/H**1550nm 2.5Gbps Laser Diode Modules****Features**

- Uncooled laser diode with MQW structure
- High temperature operation without active cooling
- Hermetically sealed active component
- Built-in InGaAs monitor photodiode
- Complies with Bellcore TA-NWT-000983
- Single frequency operation with high SMSR

Application

- Design for 2.5G high speed, optical networks

**Note:**

1. Pin assignment can be customized.
2. Specifications subject to change without notice.

Handling Precautions

This device is susceptible to damage as a result of electrostatic discharge (ESD). A static free environment is highly recommended. Follow guidelines according to proper ESD procedures.

Absolute Maximum Ratings(Tc=25°C)

Parameter	Symbol	Value	Unit
Fiber Output Power Receptacle / Pigtailed L/M/H	P _f	0.4(L)/0.9(M)/1.6(H)	mW
LD Reverse Voltage	V _{RLD}	2	V
PD Reverse Voltage	V _{RPD}	10	V
PD Forward Current	I _{FPD}	1.0	mA
Operating Temperature	T _{opr}	-40~+85	°C
Storage Temperature	T _{stg}	-40~+85	°C

(All optical data refer to a coupled 9/125μm SM fiber)

Optical and Electrical Characteristics(Tc=25°C)

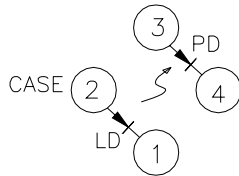
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test condition
Threshold Current	I _{th}	-	10	15	mA	CW
Fiber Output Power L M H	P _f	0.2 0.5 1	-	-	mW	CW, I _{th} +25mA, kink free
Peak Wavelength	λ	1530	1550	1570	nm	CW, P _f =P _f (Min)
Spectrum Width	Δλ	-	2	5	nm	CW, P _f =P _f (Min)
Forward Voltage	V _F	-	1.2	1.5	V	CW, P _f =P _f (Min)
Rise/Fall Time	t _r / t _f	-	-	150	ps	I _{bias} =I _{th} , 10~90%
Tracking Error	ΔP _i /P _i	-	-	±0.5	dB	APC, -40~+85°C
PD Monitor Current	I _m	100	-	-	μA	CW, P _f =P _f (Min), V _{RPD} =2V
PD Dark Current	I _{DARK}	-	-	0.1	μA	V _{RPD} =5V
PD Capacitance	C _t	-	6	15	pF	V _{RPD} =5V,

Connector Option

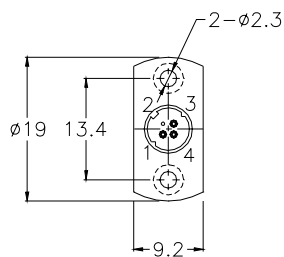
Model	Package	Fiber	Connector
C-15-002-R-SFCL(M/H) C-15-002-R-SSTL(M/H) C-15-002-R-SSCL(M/H)	Receptacle	-	FC ST SC
C-15-002-P-SFCL(M/H) C-15-002-P-SSTL(M/H) C-15-002-P-SSCL(M/H)	Pigtailed	SM	FC ST SC
C-15-002-P-SL(M/H)			No

2.5Gbps LD Modules-*receptacle*

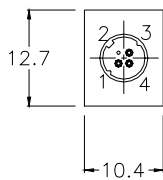
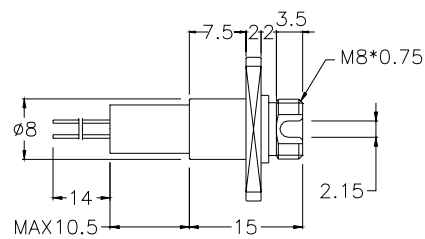
LD Pin Assignment



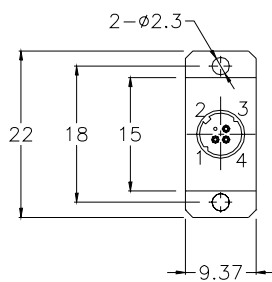
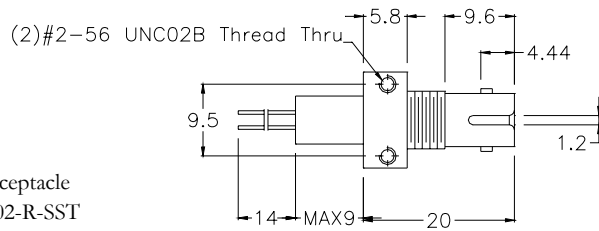
- Pin 1 : Laser Cathode
- Pin 2 : Laser Anode and Case Gnd
- Pin 3 : Monitor Diode Anode
- Pin 4 : Monitor Diode Cathode



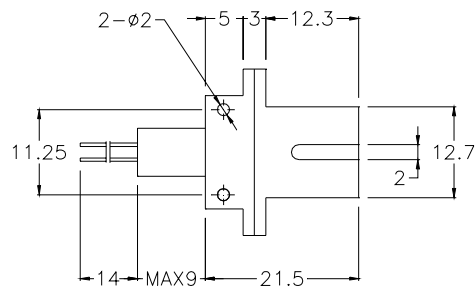
FC Receptacle
C-15-002-R-SFC



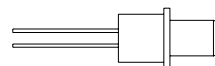
ST Receptacle
C-15-002-R-SST



SC Receptacle
C-15-002-R-SSC



Customer Specified



2.5Gbps LD Modules-pigtailed

Units in mm.

