



Features

- Laser diode with Multi-quantum-well structure
- Un-cooled operation at -40 to +85 €
- Built-in InGaAs monitor photodiode
- Hermetically sealed active component
- Complies with Telcordia Technologies GR-468-CORE
- FC/ST/SC Receptacle package with 2-hole flange
- Fiber pigtailed with optional FC/ST/SC/MU connector
- Design for fiber-optics networks
- RoHS Compliant available

Absolute Maximum Ratings (Tc=25 €)

Parameter	Symbol	Rating	Unit
Fiber Output Power L/M/H	Pf	0.6(L)/1 (M)/2.5(H)	mW
LD Reverse Voltage	V _{RLD}	2	V
PD Reverse Voltage	V _{RPD}	10	V
PD Forward Current	I _{FPD}	2	mA
Operating Temperature	Topr	-40 ~ 85	
Storage Temperature	Tstg	-40 ~ 85	



Parameter		Symbol	Min.	Тур.	Max.	Unit	Notes			
Threshold Current		lth	-	10	15	mA	CW			
Fiber Output Power M			0.2	-	0.5					
		Pf	0.5	-	1	mW	CW, lth+25mA, kink free			
			1	-	2					
Peak Wavelength			1490	1510	1530	nm	CW, $P_f = P_f(Min)$			
Spectrum Width	Receptacle			-	2	5	nm	CW, P _f = P _f (Min)		
(RMS)	Pigtail			-	-	3				
Forward Voltage		VF	-	1.2	1.5	V	CW, $P_f = P_f(Min)$			
Rise Time / Fall Time		T _r / T _f	-	-	0.3	ns	lbias=lth, 10%~90%			
Tracking Error		Pf /Pf	-1.5	-	1.5	dB	APC, -40 ~ 85			
PD Monitor Current		I _m	100	-	-	μA	CW, $P_f = P_f(Min)$, $V_{RPD} = 2V$			
PD Dark Current		l _{dark}	-	-	0.1	μA	V _{RPD} = 5V			
PD Capacitance		Ct	-	6	15	pF	V _{RPD} = 5V, f = 1MHz			

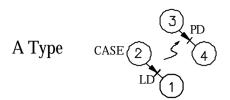
Note:

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

P/N: C-151-001-XX-SXXXX/XXX-X-XX 1510nm Laser Diode Module



Pin Assignment



Pin 1: Laser Cathode

Pin 2 : Laser Anode and Case Gnd Pin 3 : Monitor Diode Anode Pin 4 : Monitor Diode Cathode B Type case (

Pin 1 : Monitor Diode Anode

Pin 2 : Laser Anode and Case Gnd Pin 3 : Laser Cathode

Pin 4: Monitor Diode Cathode

D Type CASE 2 LDT 4

Pin 1: Laser Anode and Monitor Diode Cathode

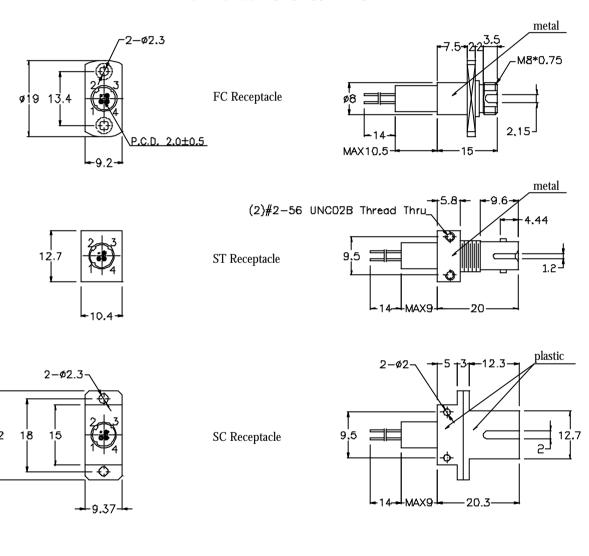
 $Pin\ 2: Case\ Gnd$

Pin 3: Laser Cathode

Pin 4: Monitor Diode Anode

Packaging Dimensions (Units in mm)

Part Number: C-151-001-RX-SXXXX-XX

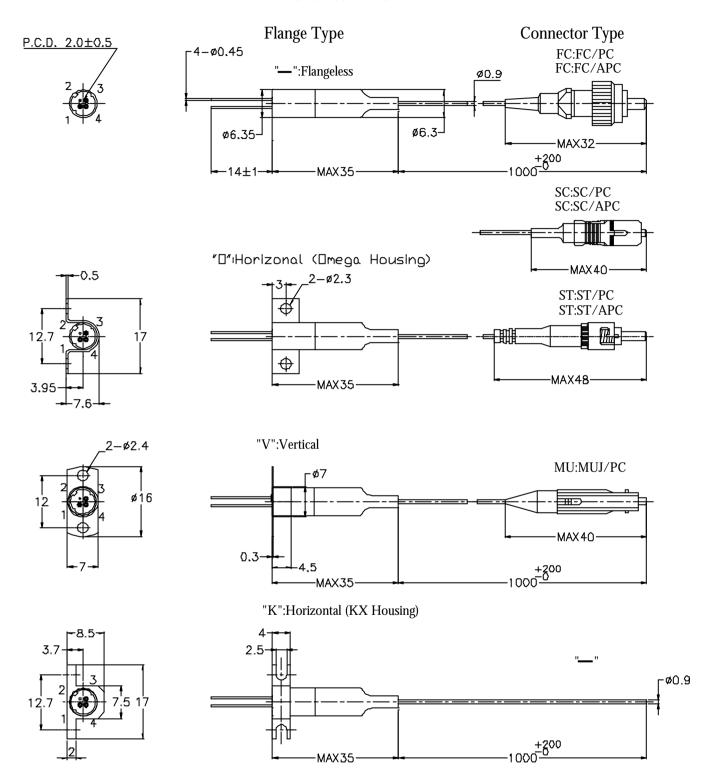


Customer Specified



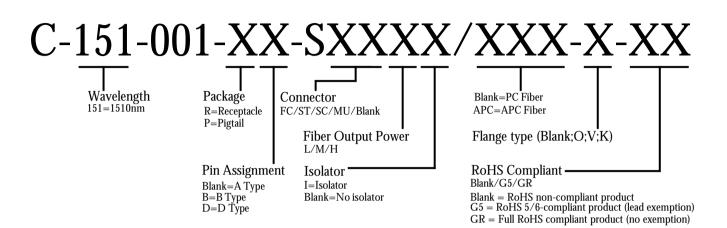
Packaging Dimensions (Units in mm)

Part Number: C-151-001-PX-SXXXX/XXX-X-XX





Ordering Information



P/N: C-151-001-XX-SXXXX/XXX-X-XX 1510nm Laser Diode Module



Warnings

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.

Laser Safety: Radiation emitted by laser devices can be dangerous to human eyes. Avoid eye exposure to direct or indirect radiation.

Legal Notice

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