



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
- TOSA
- FC/ST/SC Receptacle package with 2-hole flange
- Fiber pigtailed with optional FC/ST/SC/MU/LC connector
- Design for fiber-optics networks
- RoHS Compliant available

Absolute Maximum Ratings (Tc=25 €)

Parameter	Symbol	Rating	Unit						
Fiber Output Power L/M/H/2	Pf	0.6(L)/1(M)/2(H)/2.6(2)	mW						
LD Reverse Voltage	V _{RLD}	2	V						
PD Reverse Voltage	V _{RPD}	10	V						
PD Forward Current	IFPD	2	mA						
Operating Temperature	Topr	-40 ~ 85							
Storage Temperature	Tstg	-40 ~ 85							

(All optical data refer to a coupled 9/125 μ m SM fiber) Optical and Electrical Characteristics (Tc=25 \mathbb{C})

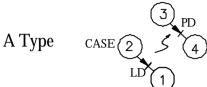
Parameter		Symbol	Min.	Тур.	Max.	Unit	Notes		
Threshold Current		lth	-	10	15	mA	CW		
Fiber Output Power H 2		Pf	0.2	-	0.5	mW	CW, lth+25mA, kink free		
			0.5	-	1				
		Н		1	1.6	-		,	
		2		2	2.5	-			
Peak Wavelength			1530	1550	1570	nm	CW, $P_f = P_f(Min)$		
Spectrum	Receptacle TOSA			-	2	5	nm	CW, P _f = P _f (Min)	
Width				-	-	3			
(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		I _{dark}	-	-	0.1	μA	V _{RPD} = 5V		
PD Capacitance		Ct	-	6	15	pF	$V_{RPD} = 5V, f = 1MHz$		

Note:



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

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

Pin 1: Monitor Diode Anode Pin 2: Laser Anode and Case Gnd

Pin 3: Laser Cathode

Pin 4: Monitor Diode Cathode

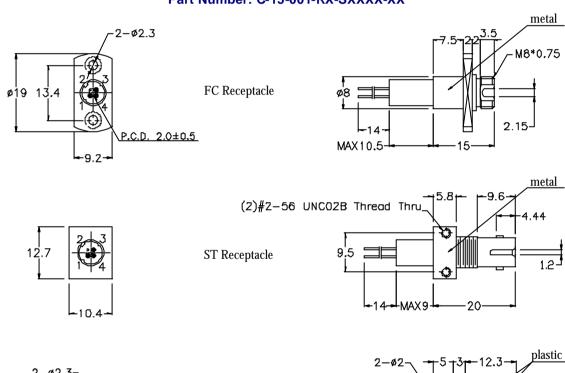
D Type CASE (

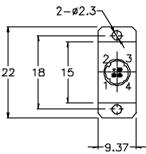
Pin 1: Laser Anode and Monitor Diode Cathode

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

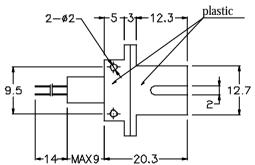
Packaging Dimensions (Units in mm)

Part Number: C-15-001-RX-SXXXX-XX





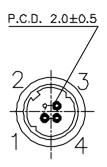
SC Receptacle



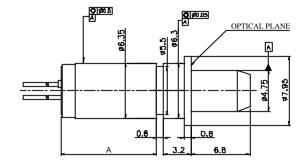


Packaging Dimensions (Units in mm)

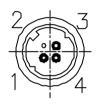
Part Number: C-15-001-TX-SSCXX-XX



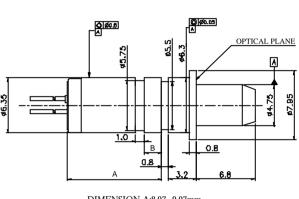
SC TOSA (L Power) C-15-001-TX-SSCL-XX



DIMENSION A:7.77~8.37mm



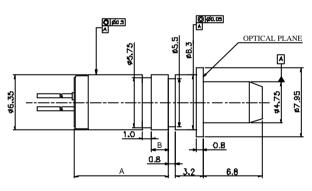
SC TOSA (L Power with Isolator) C-15-001-TX-SSCLI-XX



DIMENSION A:8.07~9.07mm B:1.0~2.0mm



SC TOSA (M&H&2 Power) C-15-001-TX-SSCXX-XX

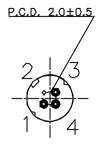


DIMENSION A:10.2~11.2mm B:2.35~3.35mm

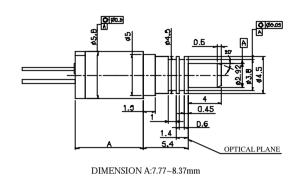


Packaging Dimensions (Units in mm)

Part Number: C-15-001-TX-SLCXX-XX

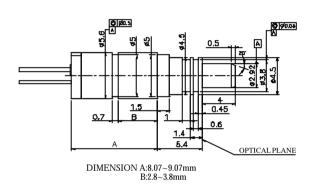


LC TOSA (L Power) C-15-001-TX-SLCL-XX



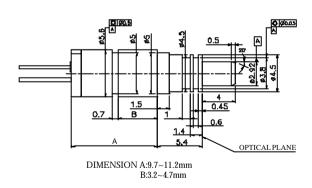


LC TOSA (L Power with Isolator) C-15-001-TX-SLCLI-XX



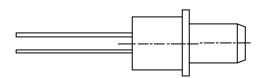


LC TOSA (M&H&2 Power) C-15-001-TX-SLCXX-XX





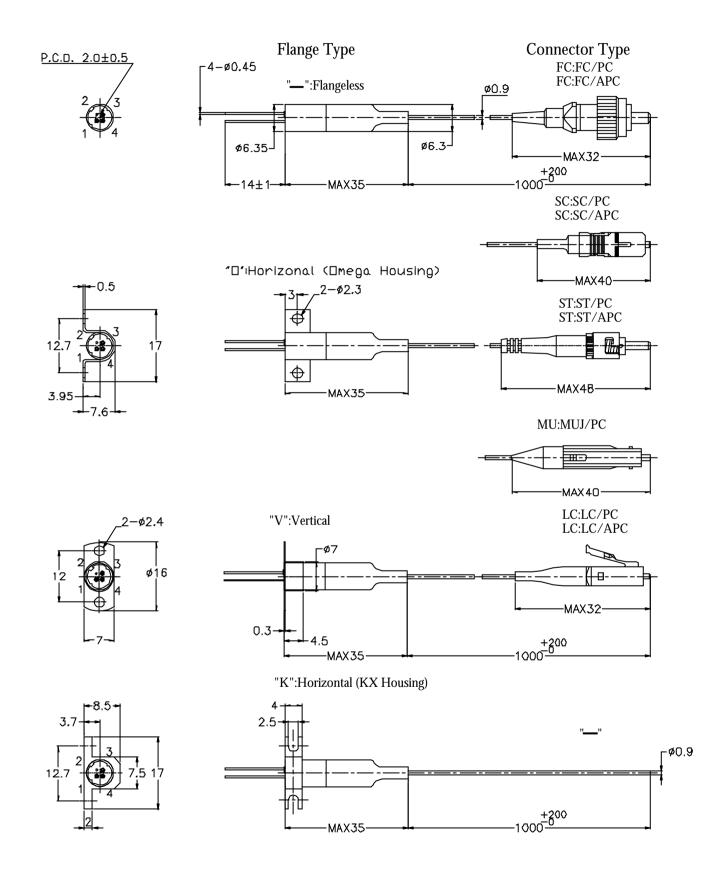
Customer Specified TOSA



1550nm Laser Diode Module

Packaging Dimensions (Units in mm)

Part Number: C-15-001-PX-SXXXX/XXX-X-XX





Ordering Information



Wavelength 15=1550nm

Package
T=TOSA
R=Receptacle
P=Pigtail

Connector FC/ST/SC/MU/LC/Blank Fiber Output Power L/M/H/2

Pin Assignment

Blank=A Type
B=B Type
D=D Type

Isolator
I=Isolator
Blank=No isolator

Blank=PC Fiber APC=APC Fiber

Flange type (Blank;O;V;K)

RoHS Compliant • Blank/G5/GR

Blank = RoHS non-compliant product G5 = RoHS 5/6-compliant product (lead exemption) GR = Full RoHS compliant product (no exemption)

P/N: C-15-001-XX-SXXXX/XXX-X-XX 1550nm 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.

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