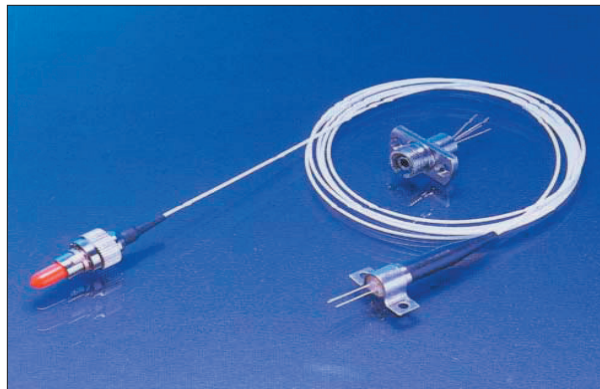


C-15-002-XX-SXXXX/XXX-X-XX



Features

- Laser diode with multi-quantum-well structure
- Un-cooled operation at -40~+85°C
- High temperature operation without active cooling
- 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 2.5G high speed optical networks
- RoHS compliant available

Absolute Maximum Ratings (Tc=25°C)

Parameter	Symbol	Rating	Unit
Fiber Output Power L/M/H/2	P_f	0.6(L) / 1(M) / 2(H) / 2.6(2)	mW
Reverse Voltage	V_{RLD}	2	V
PD Reverse Voltage	V_{RPD}	10	V
PD Forward Current	I_{FPD}	2	mA
Operating Temperature	T_{opr}	-40 ~+85	°C
Storage Temperature	T_{stg}	-40 ~ +85	°C
Soldering Temperature (<10sec)	T_{smp}	260	°C

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

Optical and Electrical Characteristics (Tc=25°C)

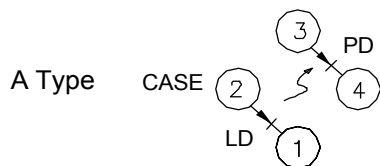
Parameter	Symbol	Min	Typ	Max	Unit	Test Conditions
Threshold Current	I_{th}	-	10	15	mA	CW
Fiber Output Power L M H 2	P_f	0.2 0.5 1 2	- - 1.6 2.5	0.5 1 - -	mW	CW, I_{th} +25mA, kink free
Peak Wavelength	λ	1530	1550	1570	nm	CW, $P_f = P_f$ (Min)
Spectrum Width (RMS)	$\Delta \lambda$	-	-	3	nm	CW, $P_f = P_f$ (Min)
Forward Voltage	V_F	-	1.2	1.5	V	CW, $P_f = P_f$ (Min)
Rise Time/Fall Time	t_r / t_f	-	-	150	ps	$I_{bias} = I_{th}$, 10~90%
Tracking Error	$\Delta P_f / P_f$	-1.5	-	1.5	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	$V_{RPD}=5V$, $f=1MHz$

Note: 1.Pin assignment can be customized.

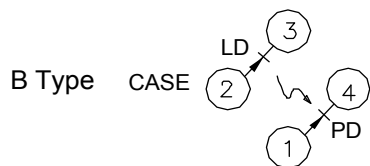
2.Specifications subject to change without notice.

C-15-002-XX-SXXXX/XXX-X-XX

LD Pin Assignment



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



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

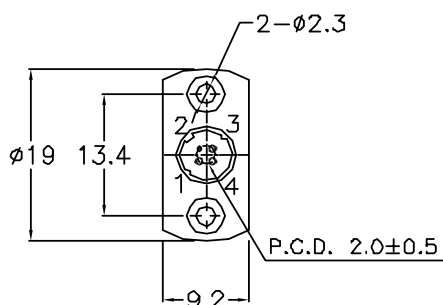


Pin 1 : Laser Anode and Monitor Diode Cathode
Pin 2 : Case Gnd
Pin 3 : Laser Cathode
Pin 4 : Monitor Diode Anode

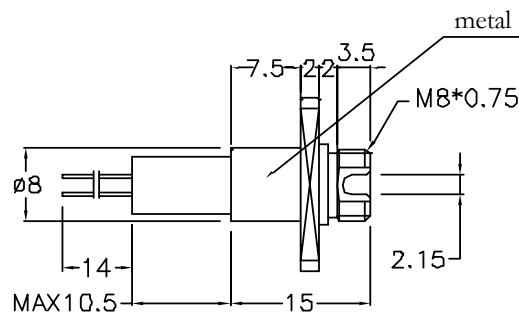
Packaging Dimension

Units in mm.

Part Number: C-15-002-RX-SXXXX-XX

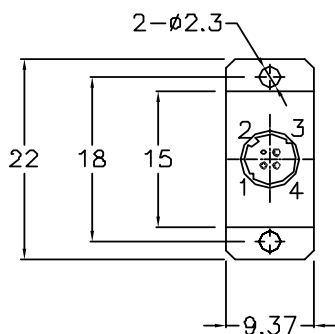
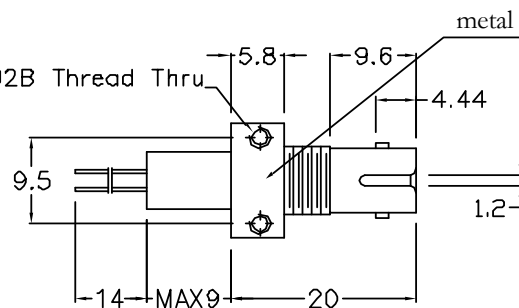


FC Receptacle

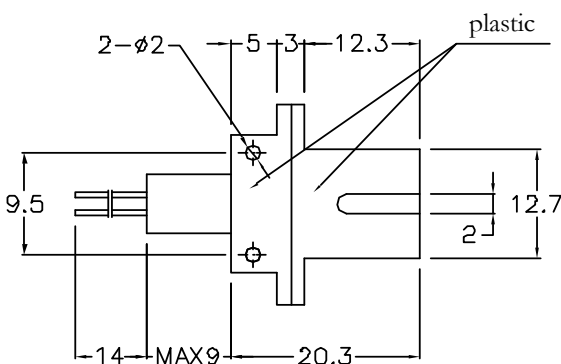


(2)#2-56 UNC02B Thread Thru

ST Receptacle



SC Receptacle

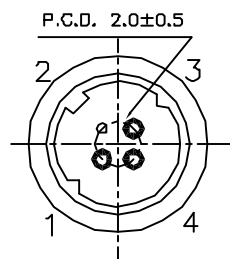


C-15-002-XX-SXXXX/XXX-X-XX

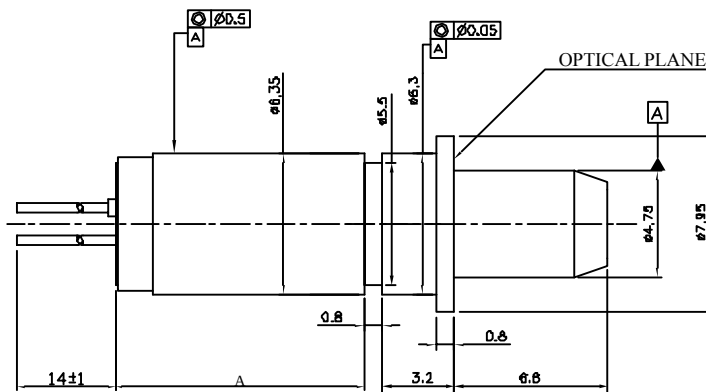
Packaging Dimension

Units in mm.

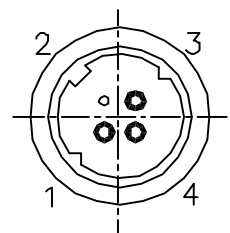
Part Number: C-15-002-TX-SSCXX-XX



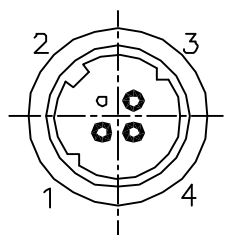
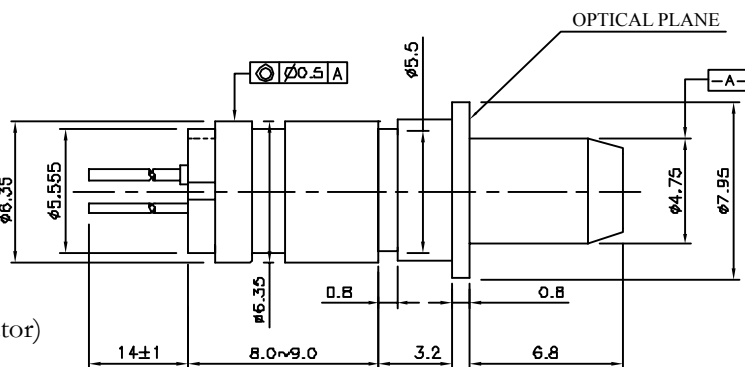
SC TOSA (L Power)
C-15-002-TX-SSCL-XX



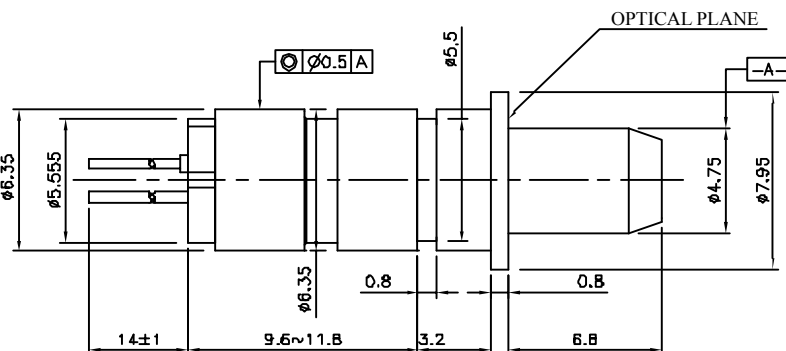
DIMENSION A: 7.77~8.37mm



SC TOSA (L Power with Isolator)
C-15-002-TX-SSCLI-XX



SC TOSA (M&H&2 Power)
C-15-002-TX-SSCXX-XX

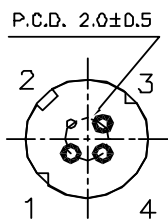


C-15-002-XX-SXXXX/XXX-X-XX

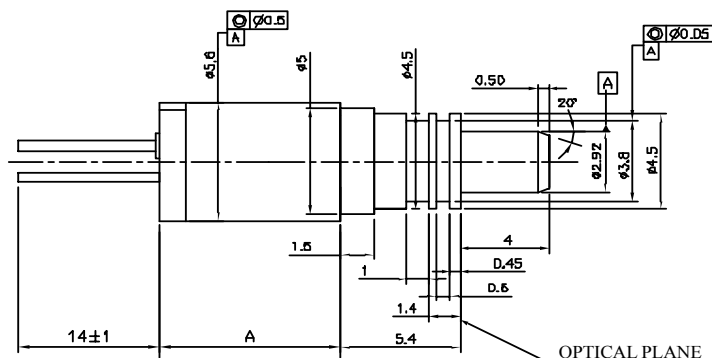
Packaging Dimension

Units in mm.

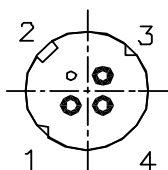
Part Number: C-15-002-TX-SLCXX-XX



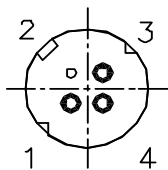
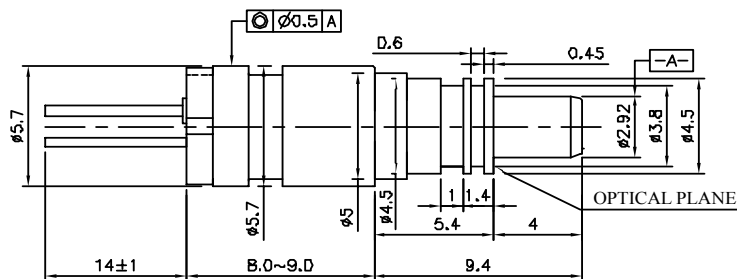
LC TOSA (L Power)
C-15-002-TX-SLCL-XX



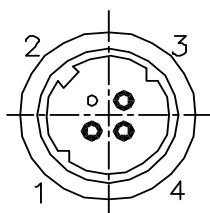
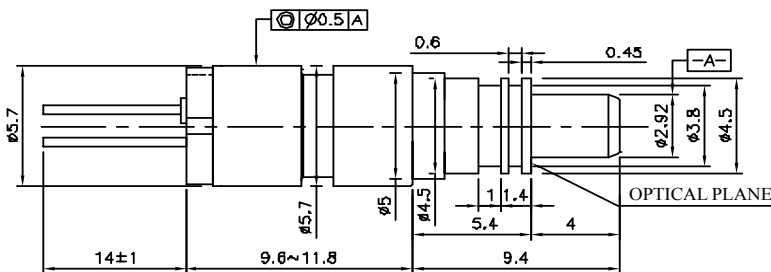
DIMENSION A: 7.77~8.37mm



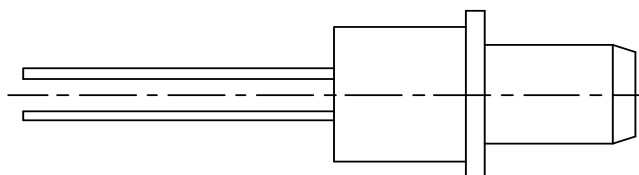
LC TOSA (L Power with Isolator)
C-15-002-TX-SLCLI-XX



LC TOSA (M&H&2 Power)
C-15-002-TX-SLCXX-XX



Customer Specified
TOSA

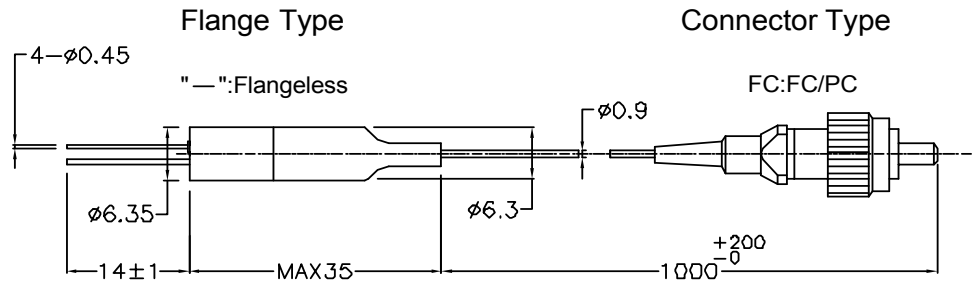
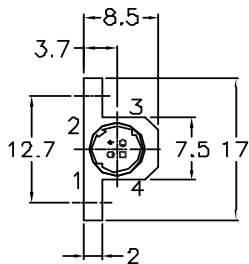
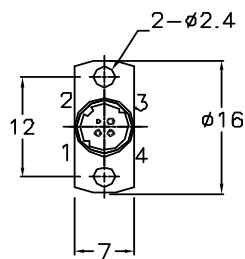
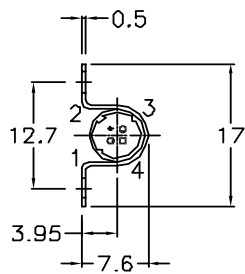
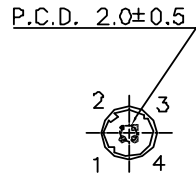


C-15-002-XX-SXXXX/XXX-X-XX

Packaging Dimension

Units in mm.

Part Number: C-15-002-PX-SXXXX/XXX-X-XX



Flange Type

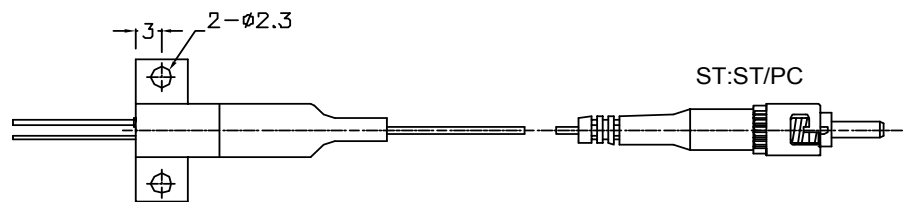
"—": Flangeless

Connector Type

FC:FC/PC

SC:SC/PC

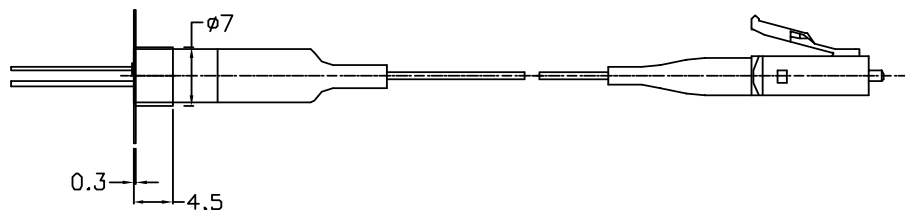
"O": Horizontal (Omega Housing)



ST:ST/PC

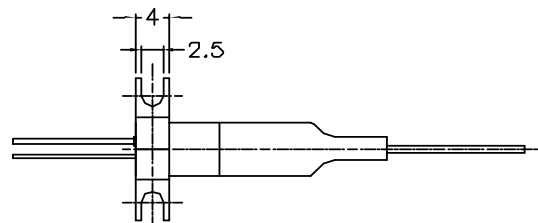
MU CONNECTOR

"V": Vertical



LC:LC/PC

"K": Horizontal (KX Housing)



C-15-002-XX-SXXXXX/XXX-X-XX

Ordering Information

C-15-002-XX-SXXXXX/XXX-X-XX

Wavelength
15=1550nm

Package
T=TOSA
R=Receptacle
P=Pigtail

Pin Assignment
"- " =A Type
B =B Type
D =DType

Connector
FC/ST/SC/MU/LC/-

Fiber Output Power
L/M/H/2

"I" = Isolator
"- " = No isolator

- = PC Fiber
APC = APC Fiber

Flange type (-;O;V;K)

RoHS Compliant
-/G5/GR

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

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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