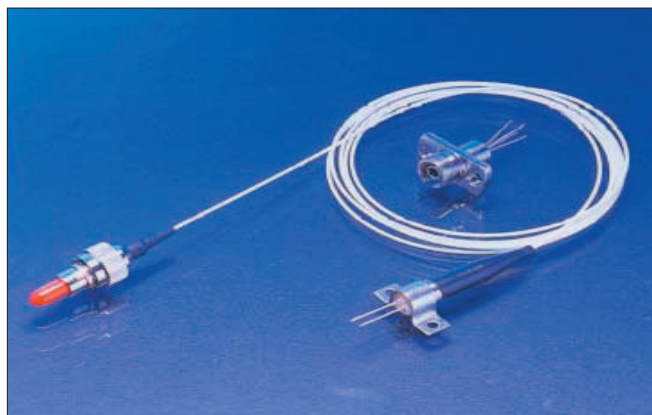


C-15-001-XX-SXXXX/XXX-X-XX

**Features**

- Laser diode with multi-quantum-well structure
- Un-cooled operation at -40~+85°C
- 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
- Un-cooled fiber pigtailed with optional FC/ST/SC/MU/LC connector
- Design for fiber-optics 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}	2.0	mA
Operating Temperature	T_{opr}	-40 ~ +85	°C
Storage Temperature	T_{stg}	-40 ~ +85	°C

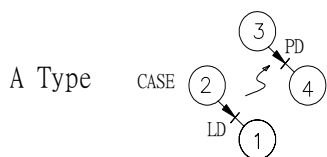
(All optical data refer to a coupled 9/125μm SM fiber)**Optical and Electrical Characteristics (Tc=25°C)**

Parameter	Symbol	Min	Typ	Max	Unit	Test 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 1.0 - -	mW	CW, $I_{th}+25mA$, kink free
Peak Wavelength	λ	1530	1550	1570	nm	CW, $P_f = P_f$ (Min)
Spectrum Width (RMS) Receptacle TOSA Pigtail	$\Delta \lambda$	- - -	2 - -	5 3 3	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	-	-	0.3	ns	$I_{bias} = I_{th}$, 10~90%
Tracking Error	$\Delta P / P_f$	-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	$V_{RPD}=5V$, $f=1MHz$

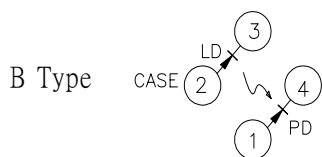
Note: 1.Pin assignment can be customized.**2.Specifications subject to change without notice.**

C-15-001-XX-SXXXX/XXX-X-XX

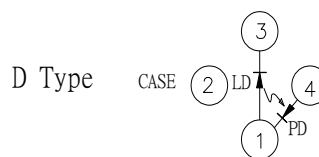
LD Pin Assignment



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

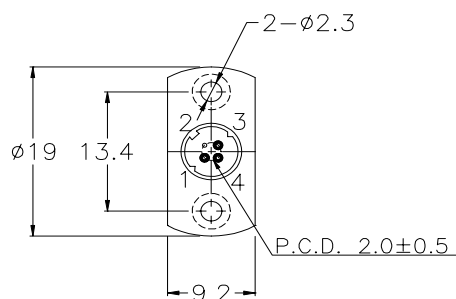


Pin 1 : Laser Anode and Monitor Diode Cathode
Pin 2 : Case Gnd
Pin 3 : Laser Cathode
Pin 4 : Monitor Diode Anode

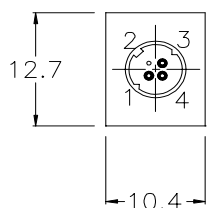
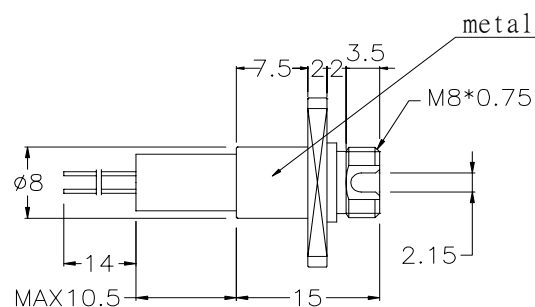
Packaging Dimension

Units in mm.

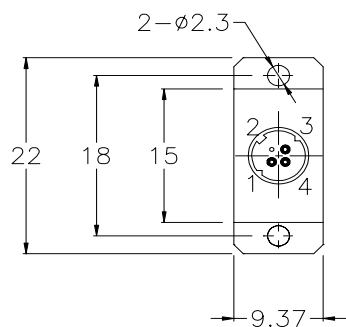
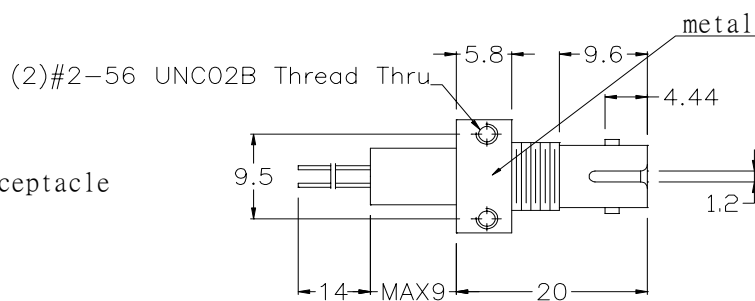
Part Number: C-15-001-RX-SXXXX-XX



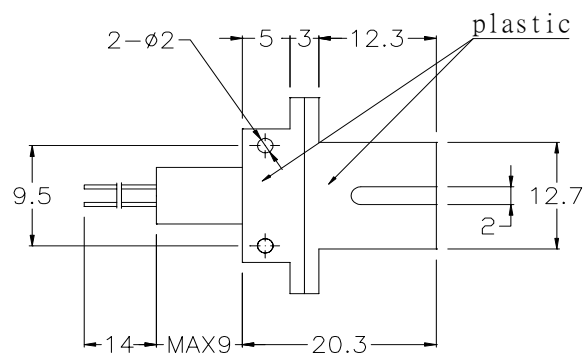
FC Receptacle



ST Receptacle



SC Receptacle

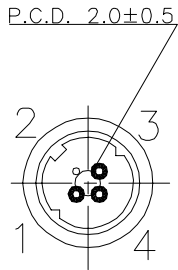


C-15-001-XX-SXXXX/XXX-X-XX

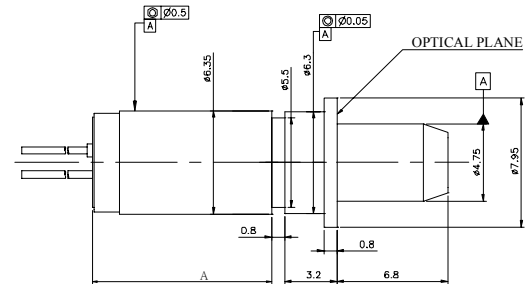
Packaging Dimension

Units in mm.

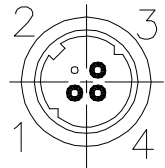
Part Number: C-15-001-TX-SSCXX-XX



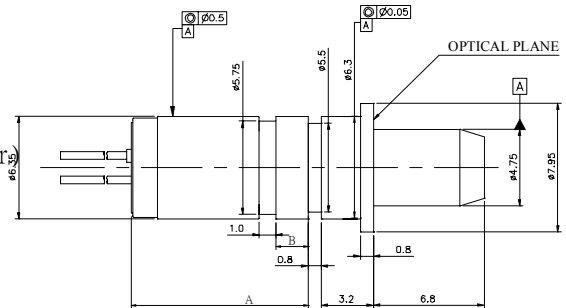
SC TOSA (L Power)
C-15-001-TX-SSCL-XX



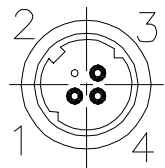
DIMENSION A: 7.77~8.37mm



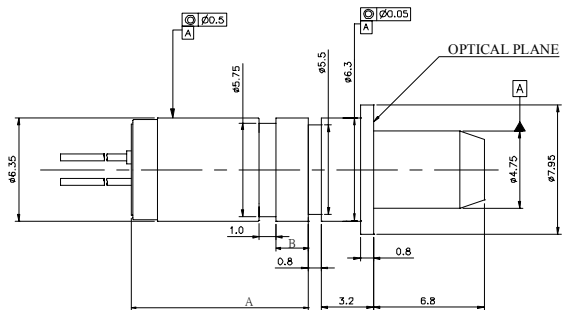
SC TOSA (L Power with Isolator)
C-15-001-TX-SSCLI-XX



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

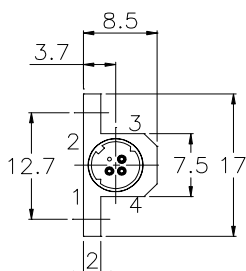
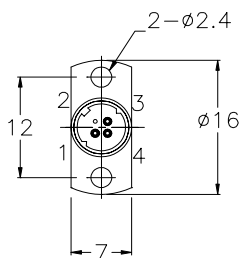
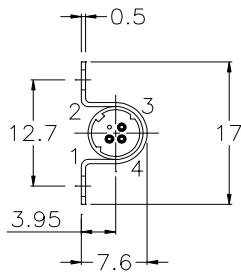
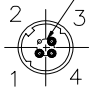
C-15-001-XX-SXXXX/XXX-X-XX

Packaging Dimension

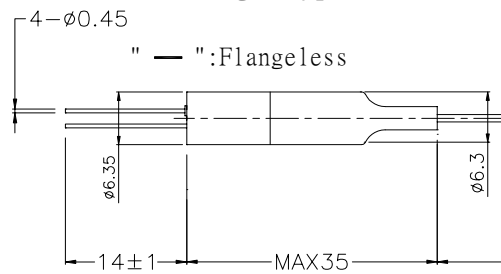
Units in mm.

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

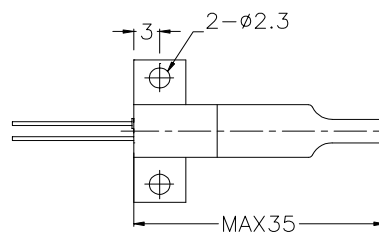
P.C.D. 2.0 ± 0.5



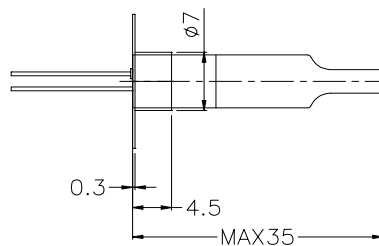
Flange Type



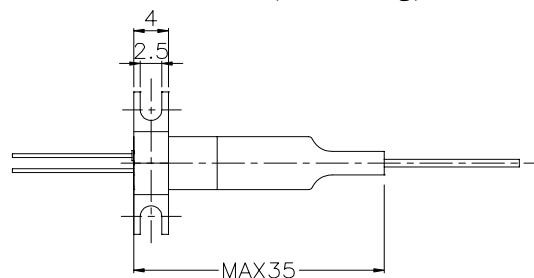
"O": Horizontal (Omega Housing)



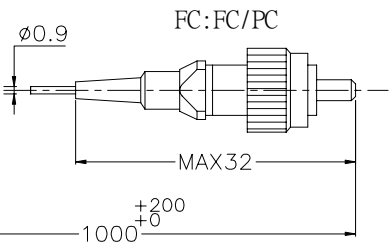
"V": Vertical



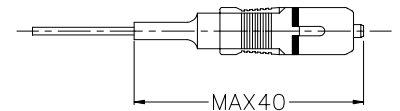
"K": Horizontal (KX Housing)



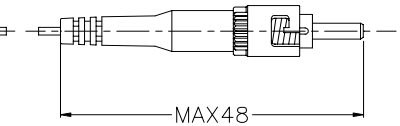
Connector Type



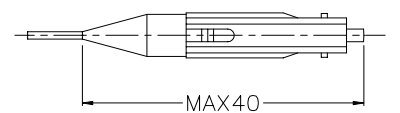
SC: SC/PC



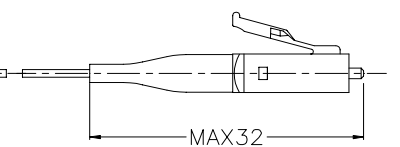
ST: ST/PC



MU: MUJ /PC



LC: LC/PC



C-15-001-XX-SXXXXX/XXX-X-XX

Ordering Information

C-15-001-XX-SXXXXX/XXX-X-XX

Wavelength
15=1550nm

Package
T=TOSA
R=Receptacle
P=Pin

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

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

Isolator
"I" = Isolator
"N" = No isolator

- = PC Fiber
APC = APC Fiber

Flange type (-;O;V;K)

RoHS Compliant
-/G5/R5
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.

Legal Notice

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