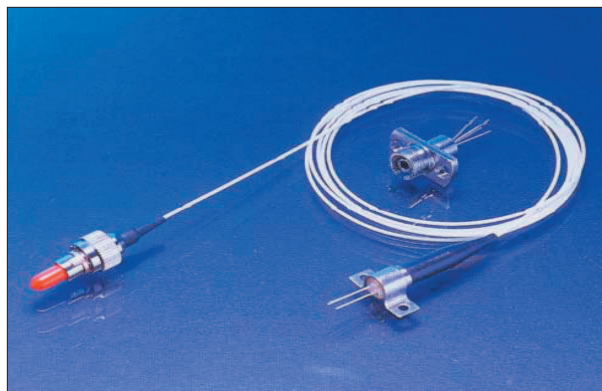


C-13-002-XX-SXXXX/XXX-X-XX



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 optic networks
- RoHS Compliant available

Absolute Maximum Ratings (Tc=25°C)

Parameter	Symbol	Rating	Unit
Fiber Output Power L/M/H/2	P_f	1(L) / 1.5(M) / 2.5(H) / 3(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
Soldering Temperature (<10sec)	Stamp	260	°C

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

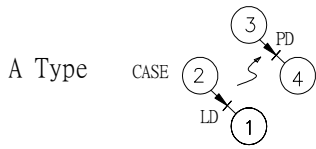
Optical and Electrical Characteristics (Tc=25°C)

Parameter	Symbol	Min	Typ	Max	Unit	Test Conditions
Threshold Current	I_{th}	-	10	15	mA	CW
Fiber Output Power	P_f	0.2 0.5 1 2	- - 1.6 2.5	0.5 1.0 - -	mW	CW, $I_{th}+20mA$, kink free
Peak Wavelength	λ	1290	1310	1330	nm	CW, $P_f = P_f$ (Min)
Spectrum Width (RMS)	$\Delta \lambda$	-	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 Time/Fall Time	t_r / t_f	-	-	150	ps	$I_{bias} = I_{th}$, 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	$V_{RPD}=5V$, $f=1MHz$

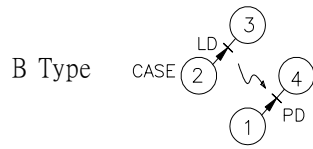
- Note:**
- 1.Pin assignment can be customized.
 - 2.Specifications subject to change without notice.

C-13-002-XX-SXXXX/XXX-X-XX

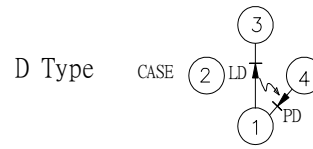
LD Pin Assignment



A Type
 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

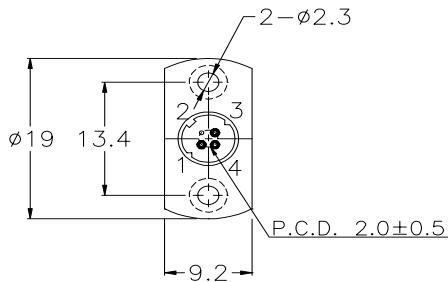


D Type
 Pin 1 : Laser Anode and Monitor Diode Cathode
 Pin 2 : Case Gnd
 Pin 3 : Laser Cathode
 Pin 4 : Monitor Diode Anode

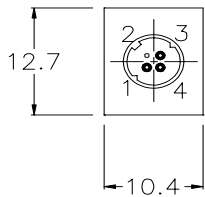
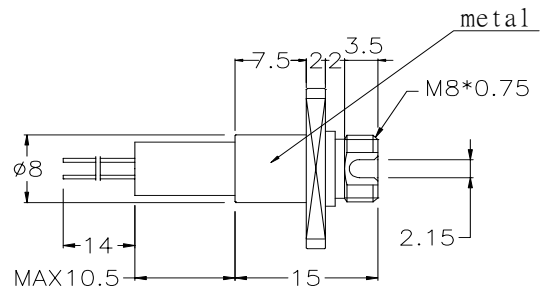
Packaging Dimension

Units in mm.

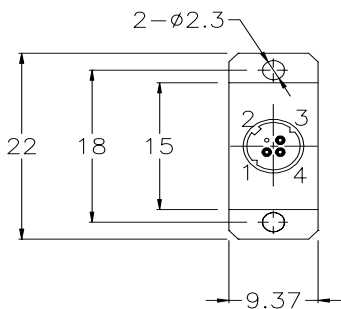
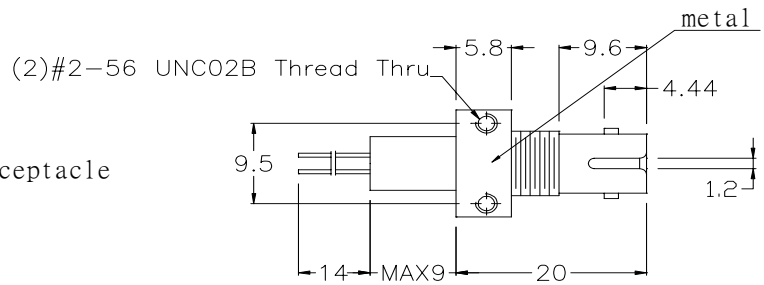
Part Number: C-13-002-RX-SXXXX-XX



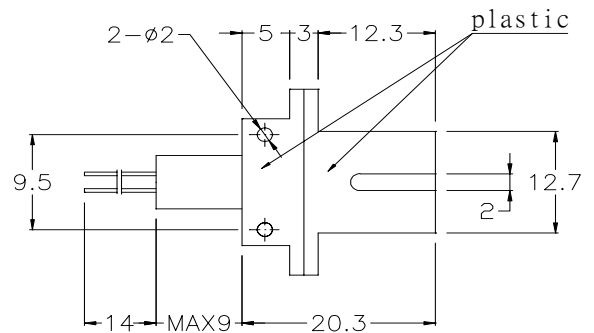
FC Receptacle



ST Receptacle



SC Receptacle



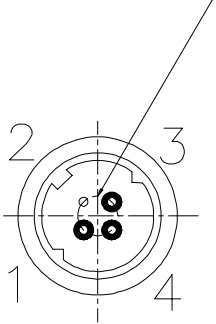
C-13-002-XX-SXXXX/XXX-X-XX

Packaging Dimension

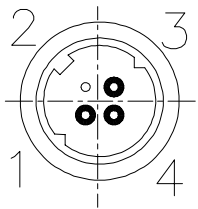
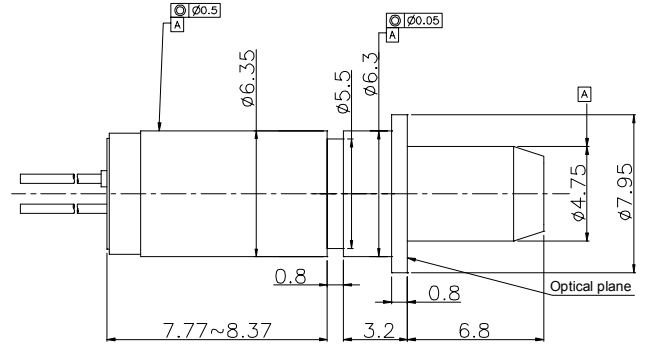
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Part Number: C-13-002-TX-SSCXX-XX

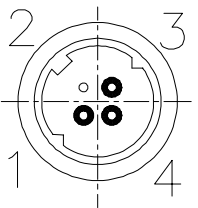
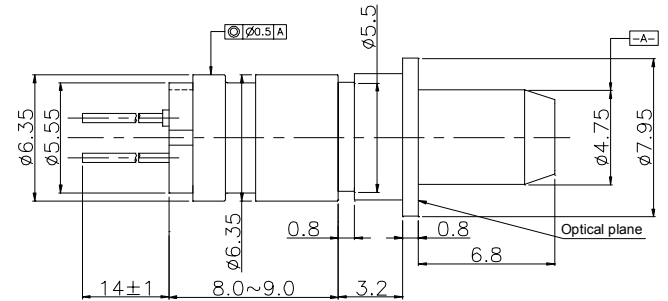
P.C.D. 2.0 ± 0.5



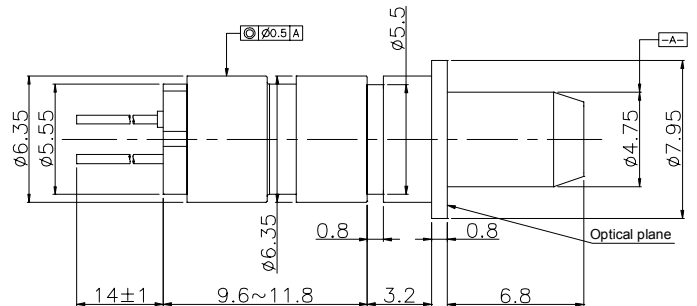
SC TOSA (L&M Power)
C-13-002-TX-SSCX-XX



SC TOSA (L&M Power with Isolator)
C-13-002-TX-SSCXI-XX



SC TOSA (H&2 Power)
C-13-002-TX-SSCXX-XX



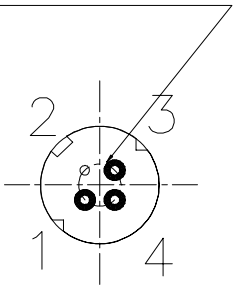
C-13-002-XX-SXXXX/XXX-X-XX

Packaging Dimension

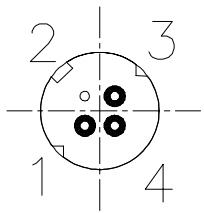
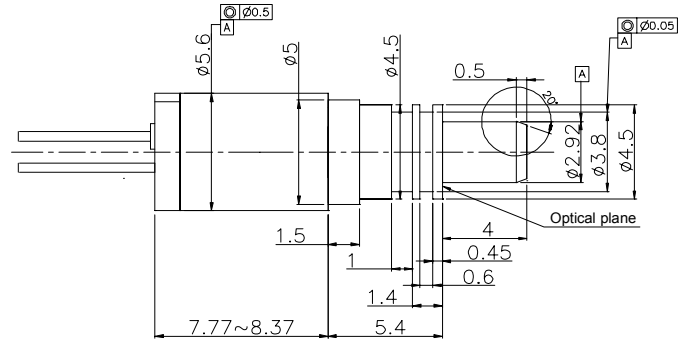
Units in mm.

Part Number: C-13-002-TX-SLCXX-XX

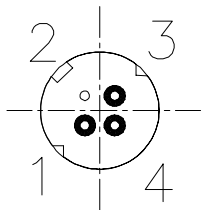
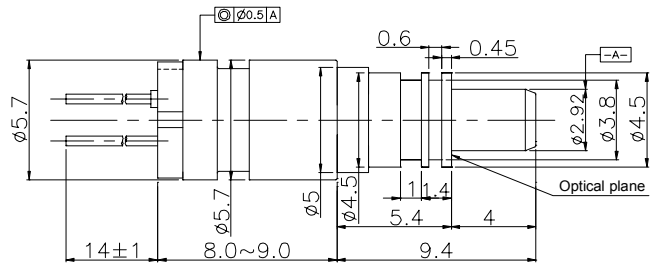
P.C.D. 2.0 ± 0.5



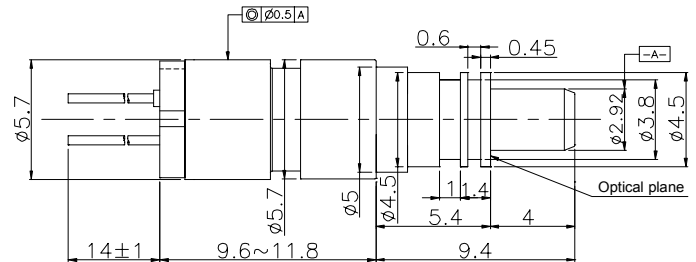
LC TOSA (L&M Power)
C-13-002-TX-SLCX-XX



LC TOSA (L&M Power with Isolator)
C-13-002-TX-SLCXI-XX



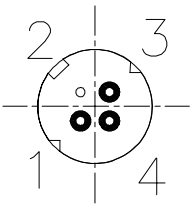
LC TOSA (H&2 Power)
C-13-002-TX-SLCXX-XX



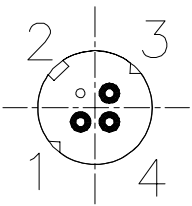
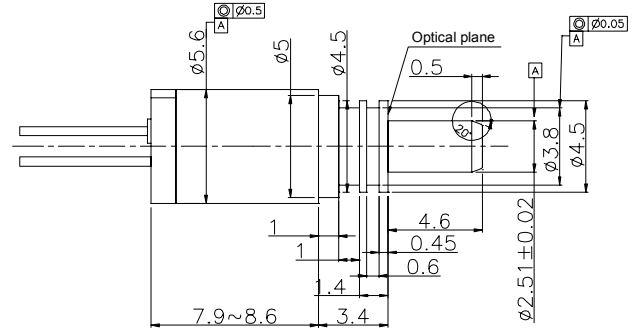
Packaging Dimension

Units in mm.

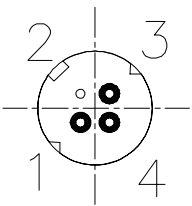
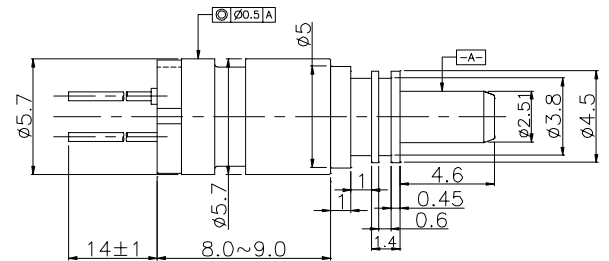
Part Number: C-13-002-TX-SMUXX-XX



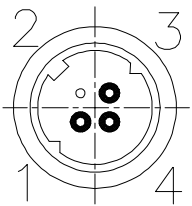
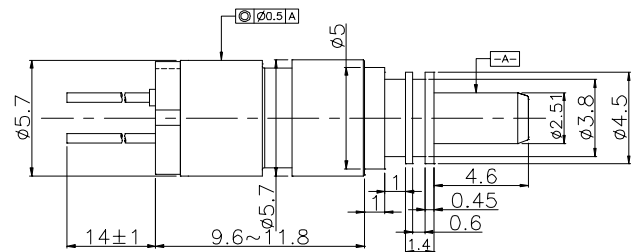
MU TOSA (L&M Power)
C-13-002-TX-SMUXX-XX



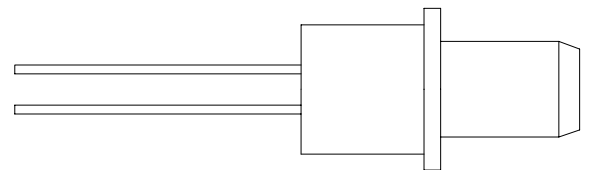
MU TOSA (L&M Power with Isolator)
C-13-002-TX-SMUXX-XX



MU TOSA (H&2 Power)
C-13-002-TX-SMUXX-XX



Customer Specified
TOSA

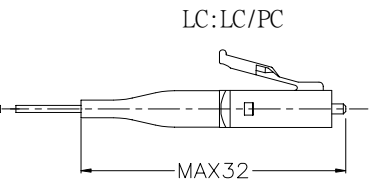
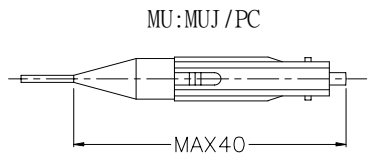
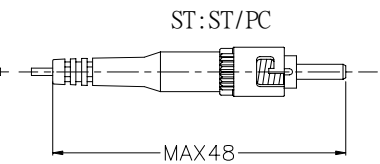
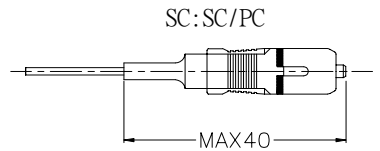
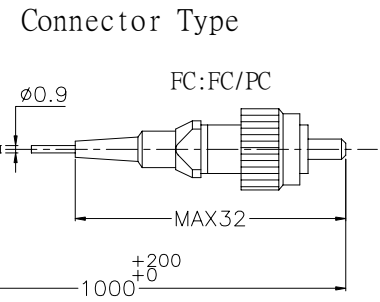
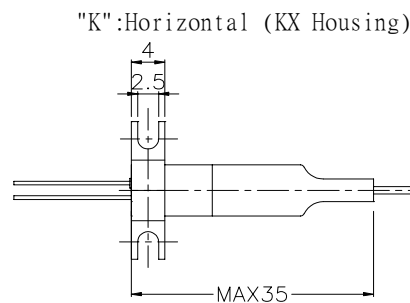
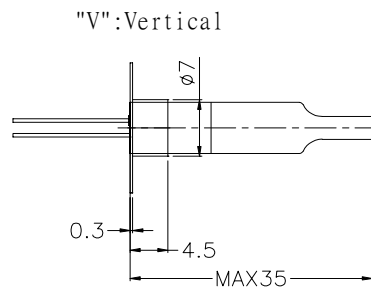
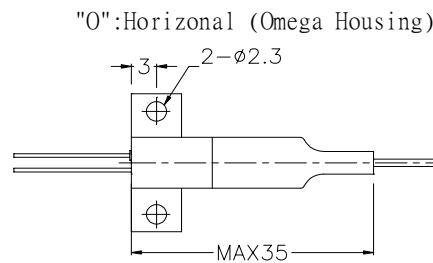
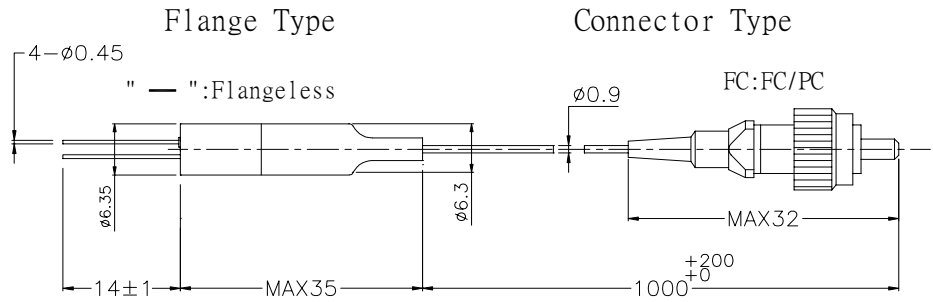
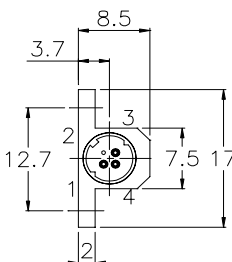
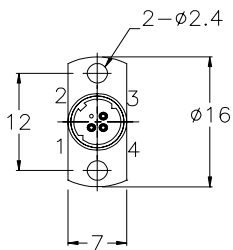
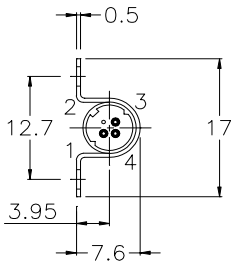
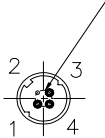


Packaging Dimension

Units in mm.

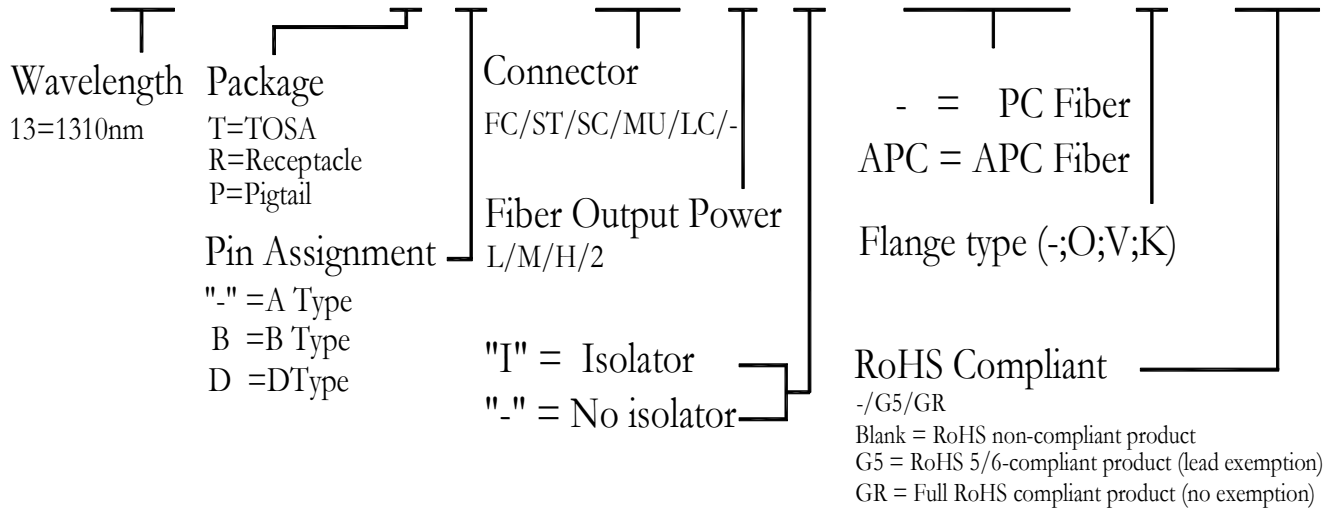
Part Number: C-13-002-PX-SXXXX/XXX-X-XX

P.C.D. 2.0 ± 0.5



Ordering Information

C-13-002-XX-SXXXXX/XXX-X-XX



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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