

## 25G CWDM TO56 TOSA MT2500-CXX

- Data rates up to 25Gb/s
- Low threshold current
- High output power
- Long history of proven field reliability
- Very high reliability design
- Laser qualified as per intent of Telcordia GR-468

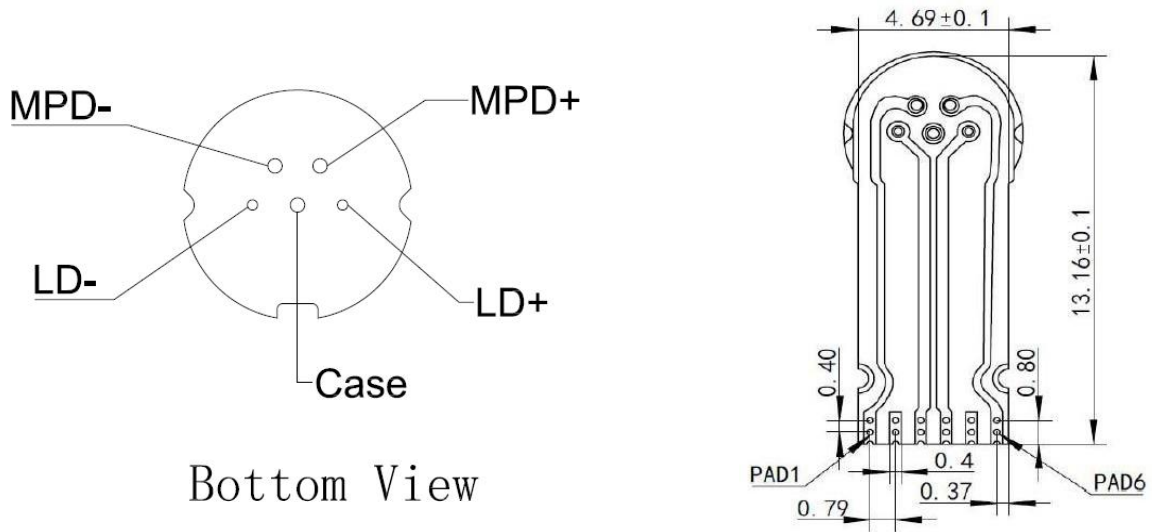
### ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Conditions	Min.	Max.	Unit
Operating Temperature	$T_{op}$	---	-20	+85	°C
Storage Temperature	$T_{Storage}$	---	-40	+85	°C
Solder Reflow Temperature	STEM	10sec Max.	---	260	°C
Laser Reverse Voltage	$V_r$	---	---	2	V
Forward Current Transient (LD)	$I_f$	---	---	120	mA
Photodiode Reverse Voltage	$V_{r,PD}$	---	---	15	V

### ELECTRICAL AND OPTICAL CHARACTERISTICS (T=25°C, unless noted)

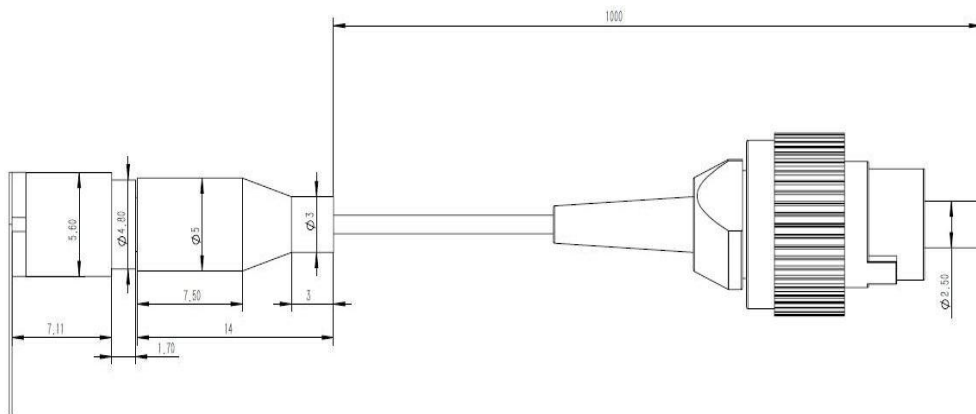
Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Threshold Current	$I_{th}$	CW, $T_c = 25^\circ\text{C}$	---	8	12	mA
		CW, $T_c = 85^\circ\text{C}$	---	17	21	mA
Forward Voltage	$V_f$	CW, $T_c = 25^\circ\text{C}$	---	---	2.0	V
Optical Output Power	$P_f$	$I_{op} = 35\text{mA}$ , SMF	-4	---	+2	dBm
Slope Efficiency	SE	$I_{th} + 5 \sim 20\text{mA}$	0.0145	---	0.06	mW/mA
Peak Wavelength	$\lambda$	$T_c = -20^\circ\text{C}$ to $85^\circ\text{C}$	---	---	---	nm
Side Mode Suppression Ratio	SMSR	$T_c = 25^\circ\text{C}$ , $I_{op} = I_{th} + 30\text{mA}$	30	---	---	dB
Rise/Fall Time (20%~80%)	$t_r/t_f$	20% ~ 80%	---	20	---	ps
Tracking Error	TE	$T_c = -20^\circ\text{C}$ to $85^\circ\text{C}$	-1.5	---	+1.5	dB
PD Capacitance	$C_{pd}$	$V_r = 5\text{V}@1\text{MHz}$	---	10	20	pF
PD Monitor Current	$I_{pd}$	CW, $I_{op} = 35\text{mA}$	0.05	---	---	mA

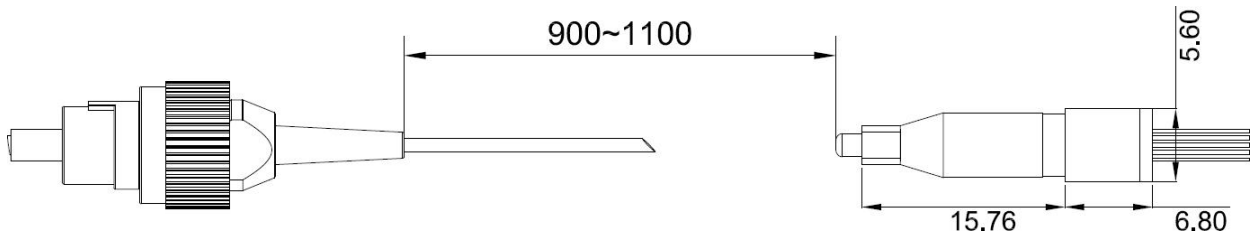
## Mechinal Dimension



PAD assignment:

PAD 1	PAD 2	PAD 3	PAD 4	PAD 5	PAD 6
MPD-	Case	LD-	LD+	Case	MPD+





## Ordering Information

Part number	Note
MT2500-C31	25G DFB TOSA without PFC,1310nm,FA fiber
MT2501-C31	25G DFB TOSA with PFC,1310nm,FA fiber