



变更履历表

版本	变更前内容	变更后内容	编制	审核	变更日期
01	初版	--	陈雪梅	曾延华	2021.09.22
02	--	删除 TYPE A	童文敏	曾延华	2022.06.21



## TOSA 2.5Gbps with pigtail

### Features:

- Low threshold current
- High output power
- Ultra small form-factor 8-pin TO package with aspherical lens
- Very low TEC power consumption

### Specifications:

#### Absolute Maximum Ratings

Parameter	Symbol	Min	Max.	Unit
LD Reverse Voltage	$V_{r(LD)}$	-	2	V
LD Forward Current	$I_{f(LD)}$	-	120	mA
TEC Voltage	$V_{(TEC)}$	-	1.5	V
TEC Current	$I_{(TEC)}$	-	0.9	A
Operating Temperature	Top	-5	70	°C
Storage Temperature	Tstg	-40	100	°C
Lead Solder Temperature	-	-	260	°C
Lead Soldering Time	-	-	10	s

#### Transmitter Optical&Electrical Characteristics (T=25°C, unless otherwise noted )

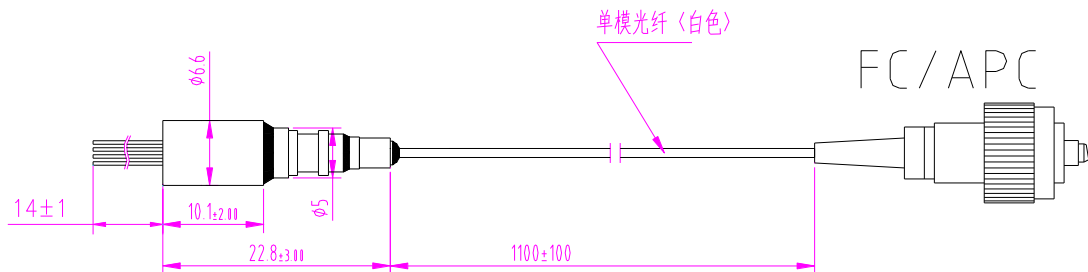
Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Laser Operating Temperature	Topc	@1550.68nm TEC ON	-	25	-	°C
Threshold Current	Ith	25°C	-	4	20	mA
Forward Voltage	Vf	Iop=Ith+20mA	-	-	2.0	V
Series Resistance	Rs	Iop=Ith+20mA	-	4.5	7.0	Ω
Monitor Current(MPD)	Im	Iop=Ith+20mA	100	-	1000	uA
Dark Current(MPD)	Id	Vr=5V, 25°C	-	-	200	nA
Optical Output Power	Po	Iop=Ith+20mA, TEC ON, 25°C	2.0	-	-	mW
Slope efficiency	SE	Iop=Ith+20mA, TEC ON, 25°C	0.10	-	-	W/A
Central Wavelength	$\lambda_c$	Iop=Ith+20mA, TEC ON, 25°C	1549	-	1551	nm
Spectral Width , -20dB	$\Delta\lambda$	Iop=Ith+20mA, TEC ON, 25°C	-	0.1	1.0	nm
Side-mode Suppression Ratio	SMSR	Iop=Ith+20mA	30	-	-	dB
		Iop=Ith+20mA, TEC ON	36	-	-	dB



Thermistor						
Thermistor Resistance	Rth	25°C	9.5	10	10.5	KΩ
B constant of Rth	B	-	-	3930	-	K
Thermoelectric(TEC)						
TEC Voltage	V <sub>(TEC)</sub>	@BOL	-	-	1.20	V
		@EOL	-	-	1.40	V
TEC Current	I <sub>(TEC)</sub>	@BOL	-	-	0.90	A
		@EOL	-	-	1.20	A

Parameter		Specifications
Optical Fiber	Fiber Type	Corning SMF 28E Ultra
	Tube	Hytrel 900T
	Fiber Length	> 1m
	Fiber Color	white
	Connect type	FC/APC

### Outline Dimension and PIN Definitions





## Order Information:

<b>TOSA 2.5G</b>	<input type="checkbox"/>	—	<input type="checkbox"/>	—	<input type="checkbox"/>
<u>LD wavelength</u>			<u>Fiber</u>		<u>Fiber Length</u>
1550.68DFB			0.9: SMF-Ø900µm		1.1m:1.1±0.1m ....

Note:

## Statement:

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