



### 产品描述

- 该产品为上行 1310nm/1490nm/1550nm 波长 /工作速率 1.25Gb/s、下行 1310/1490nm/1550nm 工作速率 1.25Gb/s 的点对点 BOSA 组件
- 发端采用 DFB 激光器,收端采用 PIN-TIA 二极管
- 芯片信息:
- LD: 1310nm/1490nm/1550nm 1.25Gpbs DFB 4PIN
- PT: 1.25G PIN-TIA
- 产品结构备注 :LC/PC 插芯套组件,机加工/粉末件结构,接收端耦合结构,不带隔离器

### 产品应用

- 远程通讯
- 点对点通讯

## Mini BOSA (CSFP)

### 产品特点

- 采用激光焊接方案
- 点对点应用
- 高光学隔离
- 工作温度: -40°C~85°C
- 插拔式 LC BOSA

### 产品标准

- 符合 Telcordia GR - 468 可靠性测试标准
- 符合 RoHS 6 项 标准
- 符合 ROHS(对有害物质的限制)标准
- 符合 GR - 326 连接器合格标准

## 1. Absolute Maximum Ratings

Item	Symbol	Unit	Min	Max	Note
Storage Temperature	Tstg	°C	-40	85	
Operating Case Temperature	Top	°C	-40	85	
Reverse Voltage(LD)	V <sub>RL</sub>	V	---	2	
Reverse Voltage(MPD)	V <sub>RD</sub>	V	---	15	
Photodiode Forward Current(MPD)	I <sub>FD</sub>	mA	---	10	
Forward Current ( LD )	I <sub>FL</sub>	mA	---	150	
Lead Soldering (Temperature)/(Time)	---	°C/Sec	---	260/10	

## 2. Transmitter Electro-Optical Characteristics (TC=25°C, CW)

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Threshold Current	I <sub>TH</sub>	TC=25°C	---	--	12	mA
		TC= -40~+85°C,	---	--	45	
Forward Voltage	V <sub>F</sub>	PF=PF (Min), TC =25°C	---	---	1.5	V
Optical Output power @20KM	P <sub>f</sub>	CW, @ITH+20mA, 25°C, kink free	0.25	---	0.65	mW
Optical Output power @20KM	P <sub>f</sub>	CW, @ITH+20mA, -40~ 85°C	0.15		0.4	mW
Optical Output power @40KM	P <sub>f</sub>	CW, @ITH+20mA, 25°C, kink free	0.8	---	1.6	mW
Optical Output power @40KM	P <sub>f</sub>	CW, @ITH+20mA, -40~85°C	0.5		1	mW
Center Wavelength	λ <sub>C</sub>	CW, TC=-40~85°C, TX;1310nm	1270	1310	1350	nm
		CW, TC=-40~85°C, TX;1490nm	1470	1490	1510	nm
		CW, TC=-40~85°C, TX;1550nm	1510	1550	1590	nm
Monitor Current	I <sub>M</sub>	DC, Iop=Ith+20mA,	100	---	1000	uA
Tracking Error	ΔP <sub>f</sub> /P <sub>f</sub>	APC, -40°C/+25°C,+25°C/+85°C	-1.5	---	+1.5	dB

### 3. Receiver Electro-Optical Characteristics (TC=25°C, Vcc=3.3V)

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Supply Current	ICC	依据TO 选型, 范围会不一样	---	---	---	mA
Operation Wavelength	$\lambda$	RX:1310nm	1270	1310	1350	nm
		RX:1490nm	1470	1490	1510	nm
		RX:1550nm	1510	1550	1590	nm
Overload Power	Pol	1.25Gbps RL=50 $\Omega$ , PRBS=2 <sup>7</sup> -1, ER $\geq$ 10dB,BER $\leq$ 10 <sup>-10</sup> , CW	-3	---	---	dBm
Sensitivity	Sen	1.25Gbps RL=50 $\Omega$ , PRBS=2 <sup>7</sup> -1, ER $\geq$ 10dB,BER $\leq$ 10 <sup>-10</sup> , CW	---	---	-27	dBm
Optical Return Loss	ORL	$\lambda$ =1310nm or1490nm or 1550nm	-20	---	---	dB
Optical Crosstalk	XTALK	Tc=-40~85°C (Test at 10.3125Gbps PRBS31 ER=4dB BER<10E-12)	---	---	-40	dB

### 4. Dimension Outline

