



产品描述

- 该产品为上行 1310/1490nm/1550nm 波长/工作速率 2.5G、下行 1490/1550nm/1310nm 工作速率 2.5G 的点对点 BOSA 组件
- 发端采用 DFB/FP 激光器，收端采用 PIN-TIA 二极管
- 芯片信息:
LD: 13210nm/1490nm/1550nm 2.5G
DFB/FP 4PIN
PT: 2.5G PIN-TIA
- 产品结构备注 :LC/PC 插芯套组件,机加工/粉末件结构,接收端粘接结构,带隔离器

产品应用

- 远程通讯
- 点对点通讯

LC BIDI BOSA($\geq 40\text{km}$ 2.5G
with Isolator)

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 : $0^{\circ}\text{C} \sim 70^{\circ}\text{C}$
- 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 Temperature (ambient)	TOPR	°C	-40	85	
Supply Voltage	VCC	V	-0.5	4.5	
Lead Soldering Temperature (Max10 sec)	TS	°C	---	260	
Forward Current (LD)	IFLD	mA	---	120	
Reverse Voltage (LD)	VRLD	V	---	2	
Forward Current (MPD)	IFMPD	mA	---	2	
Reverse Voltage (MPD)	VRMPD	V	---	15	
Forward Current (PD)	IFPD	mA	---	10	
Reverse Voltage (PD)	VRPD	V	---	20	

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

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Threshold Current	ITH	CW, TC=25°C	---	--	15	mA
		CW, TC=-40~85°C	---	--	40	
Forward Voltage	VF	PF=PF (Min), TC=25°C	---	---	1.5	V
Optical Output power @40KM	Pf	CW @ ITH+20mA, 25°C	0.8	---	1.6	mW
		CW @ ITH+20mA, -40~85°C	0.5	---	1	mW
Optical Output power @80KM	Pf	CW @ ITH+20mA, 25°C	1.8	---	---	mW
		CW @ ITH+20mA, -40~85°C	0.9	---	---	mW
Center Wavelength	λ_C	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	1530	1550	1570	nm
Monitor Current	I _{mon}	CW, PF=I _{th} +20mA, VRMPD=1.5V, Tc=25C,	100	---	900	uA
Optical Return Loss tolerance	O _{RLT}				27	dB
Tracking Error	$\Delta P_f/P_f$	-40~+85°C, CW, Pf (I _{th} +20mA)@IM hold	-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	λ	RX:1310nm	1290	1310	1330	nm
		RX:1490nm	1470	1490	1510	nm
		RX:1550nm	1510	1550	1570	nm
Saturation Power	PSAT	Tc=-40~85°C (Test at 2.5Gbps PRBS23 ER=8.2dB BER<10E-10)	+1	---	---	dBm
Sensitivity @2.5Gbps	Sen	Tc=-40~85°C (Test at 2.5Gbps PRBS23 ER=8.2dB BER<10E-10)	---	---	-29	dBm
Optical Return Loss	ORL	$\lambda=1310\text{nm}$ or 1490nm or 1550nm	20	---	---	dB
Optical Crosstalk	XTALK		40	---	---	dB

4. Dimension Outline

