



产品描述

- 该产品为上行 1310nm 工作速率 1.25Gb/s、下行 1490nm/工作速率 2.5Gb/s 的 ONU BOSA 组件
- 发端采用 FP 激光器，收端采用 APD-TIA 二极管
- 芯片信息:
LD: 1310nm 1.25Gpbs FP 4PIN
PT: 2.5Gpbs APD-TIA
- 产品结构备注: SC/PC 插芯套组件, 机加工/粉末件结构, 接收端粘接结构, 不带隔离器

产品应用

- 远程通讯
- FTTx
- PON

GPON ONU Receptacle BOSA

产品特点

- 采用激光焊接方案
- 高灵敏度
- 高光学隔离
- 工作温度: -40~85°C
- 插拔式 SC 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	T_{STG}	°C	-40	+85	
Operating Temperature (ambient)	T_{OPR}	°C	-40	+85	
Lead Soldering Temperature (Max10 sec)	T_S	°C	---	260	
Optical Output Power		dBm		6	
Forward Current (LD)	I_{FLD}	mA	---	150	
Reverse Voltage (LD)	V_{RLD}	V	---	2	
Forward Current (MPD)	I_{FMPD}	mA	---	2	
Reverse Voltage (MPD)	V_{RMPD}	V	---	20	
APD Forward Current		mA		2	
APD Reverse Current		mA		3	
APD Reverse Voltage		V		V_{br}	
TIA Supply Voltage	---	V	-0.4	4	

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

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Threshold Current	I_{TH}	25°C	---	--	15	mA
		-40 ~ 85°C	---	--	45	
Forward Voltage	V_F		---	---	1.5	V
Optical Output power	P_f	CW, @ I_{TH} +20mA, 25°C	1.6	---	---	mW
Optical Output power	P_f	CW, @ I_{TH} +20mA, -40 ~ 85°C	1	---	---	mW
Center Wavelength	λ_C	CW, TC=-40 ~ 85°C, TX;1310nm	1270	1310	1340	nm
Optical Return Loss	RL		---	---	-12	dB
Tracking Error	$\Delta P_f/P_f$	-40~+85°C, CW, P_f (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	I _{cc}	依据TO 选型, 范围会不一样	---	---	---	mA
Operation Wavelength	λ	RX:1490nm	1480	1490	1500	nm
Saturation Power	PSAT		-7	---	---	dBm
Sensitivity	Sen	AC, RL=50 Ω , NRZ 2.5Gbps, PRBS=2 ²³ -1 Extinction ratio:10dB BER=10 ⁻¹⁰ , λ =1490nm	---		-30	dBm
Optical Return Loss	ORL	λ =1490nm		---	-20	dB
Optical Crosstalk	Xopt		40			

4. Dimension Outline

