



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 1.25Gb/s 的 ONU BOSA 组件

- 发端采用 FP 激光器，收端采用 PIN-TIA 二极管

- 芯片信息:

LD: 1310nm 1.25Gpbs FP 4PIN

PT:1.25Gpbs PIN-TIA/

- 产品结构备注：尾纤式单纤双向光组件，机加工/粉末件结构，接收端贴胶结构，不带隔离器

产品应用

- ONU

EPON ONU Pigtail BOSA

产品特点

- 采用激光焊接方案
- 上行下行速率均为 1.25G
- 高光学隔离
- 工作温度：-40~85℃
- 尾纤式单纤双向光组件
- 有多种纤长（依据客户要求）

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		°C	-40	85	
Operating Case Temperature	Top	°C	-40	85	
LD Reverse Voltage	V_{RL}	V	---	2	
Photodiode Reverse Voltage (MPD)	V_{RD}	V	---	15	
Photodiode Forward Current(MPD)	I_{FD}	mA	---	10	
LD Forward Current	I_{FL}	mA	---	150	
TIA Operating voltage	Vcc	V	-0.4	4	
Hand Lead Soldering (Temperature)/(Time)	---	°C/Sec	---	260/10	
Pigtail Fiber contact Temperature	---	°C	85	---	
Fiber Bending Radius	---	mm	30	---	

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	1.2	---	---	mW
Optical Output power	P _f	CW, @I _{TH} +20mA, -40 ~ 85°C	0.8			mW
Center Wavelength	λ_C	CW, TC -40 ~ 85°C, TX;1310nm	1270	1310	1340	nm
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	ICC	依据TO 选型, 范围会不一样	---	---	---	mA
Operation Wavelength	λ	RX:1490nm	1470	1490	1510	nm
Saturation Power	PSAT		-7	---	---	dBm
Sensitivity	Sen	Tc=-40 ~ 85°C , PRBS=2 ⁷ -1, BER=10 ⁻¹⁰ , @1.25Gbps	---		-27.5	dBm
Optical Return Loss	ORL	λ =1490nm	---	---	-20	dB
Optical Crosstalk	Xopt	1310nm/1490nm	-40			

4. Dimension Outline

