



10G EPON 非对称 ONU BOSA

产品描述

- 该产品为上行 1310nm 波长/工作速率 1.25Gbps、下行 1577nm/工作速率 10G 的 ONU BOSA
- 发端采用 DFB 激光器，收端采用 APD-TIA 二极管
- 芯片信息:
LD: 1310nm 1.25Gbps DFB 4PIN
PT: 10Gbps APD-TIA
- 产品结构备注: SC/PC 插芯套组件, 机加工/粉末件结构, 接收端耦合结构, 带隔离器

产品应用

- 远程通讯
- 点对点通讯

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: 0~75°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	0	+75	
Supply Voltage	V _{CC}	V	-0.5	4.5	
Lead Soldering Temperature (Max10 sec)	T _S	°C	---	260	
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	
Forward Current (PD)	I _{FPD}	mA	---	10	
Reverse Voltage (PD)	V _{RPD}	V	---	20	

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

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Threshold Current	I _{TH}	TC=25°C	---	--	15	mA
		TC= 0 ~ 75°C,	---	--	40	
Forward Voltage	V _F	PF=PF (Min), TC =25°C	---	---	1.5	V
Optical Output power	P _f	CW, @I _{TH} +20mA, 25°C, kink free	1.8	---	---	mW
Optical Output power	P _f	CW, @I _{TH} +20mA, 0 ~ 75°C,	1.1			mW
Optical Output power	P _f	或依据客户需求				mW
Center Wavelength	λ _C	CW, TC=0 ~ 75°C,,TX;1310nm	1270	1310	1360	nm
Monitor Current	I _M	CW,Pf=I _{th} +20mA, V _{RMPD} =1.5V, Tc=25C,	100	---	900	uA
Optical Return Loss tolerance	ORLT	Tested at 1270nm or1310nm	---	---	12	dB
Tracking Error	ΔP _f /P _f	0 ~ 75°C,, CW, P _f (I _{th} +20mA)@I _M 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:1577nm	1575	1577	1580	nm
Saturation Power	P _{SAT}	Tc=0~75°C, (Test at 10.3125Gbps PRBS31 ER=6dB BER<10E-3)	-8	---	---	dBm
Sensitivity	Sen	Tc=0~75°C, (Test at 10.3125Gbps PRBS31 ER=6dB BER<10E-3)	---	---	-30	dBm
Optical Return Loss	ORL	$\lambda=1577\text{nm}$	20	---	---	dB
Optical Crosstalk	XTALK	1270nm/1577nm or 1310nm/1577nm	40	---	---	dB

4. Dimension Outline

