



GPON OLT BOSA (F.L=7.5mm Aspheric lens)

产品描述

- 该产品为上行 1490nm 波长/工作速率 2.5Gb/s、下行 1310nm/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 APD-TIA 二极管
- 芯片信息:
LD: 1310nm 2.5Gpbs DFB 4PIN
PT: 1.25Gpbs 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，不带隔离器

产品应用

- FTTx
- 光网络

产品特点

- 采用激光焊接方案
- 点对点应用
- 高光学隔离
- 高灵敏度 APD-TIA
- 工作温度：0~75°C
- 插拔式 SC BOSA

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
Operating Case Temperature (case)	T _{OPR}	°C	0	75	
Storage Temperature	T _{STG}	°C	-40	85	
Storage and Operating Humidity		%		85	
Lead Soldering Temperature	T _S	°C		260	
Optical Output Power		dBm		5	
Forward Current (LD)	I _{FLD}	mA		150	
Reverse Voltage (LD)	V _{RLD}	V		2	
MPD Forward Current	I _{FMPD}	mA		2	
MPD Reverse Voltage	V _{RMPD}	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	---	--	12	mA
		TC= 0 ~ 70°C	---	--	40	
Forward Voltage	V _F	PF=PF (Min), TC =25°C	---	---	1.9	V
Optical Output power (class B+)	P _f	CW, @I _{TH} +20mA, 25°C	1.8	---	---	mW
Optical Output power (class B+)	P _f	CW, @I _{TH} +20mA, 0 ~ 75°C	1	---	---	mW
Optical Output power (class C+)	P _f	CW, @I _{TH} +20mA, 25°C, kink free	2.4	---	---	mW
Optical Output power (class C+)	P _f	CW, @I _{TH} +20mA, 0 ~ 75°C	1.5			mW
Optical Output power (class C++)	P _f	CW, @I _{TH} +20mA, 25°C, kink free	3.0		---	mW
Optical Output power (class C++)	P _f	CW, @I _{TH} +20mA, 0 ~ 75°C	1.8			mW
Center Wavelength	λ _C	CW, TC=0 ~ 75°C, TX;1490nm	1470	1490	1510	nm
Monitor Current	I _M	CW, P _f =I _{th} +20mA	100	---	900	uA
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:1310nm	1290	1310	1330	nm
Saturation Power	PIN-TIA	PSAT	1.25Gbps, PRBS23 BER=10-10, λ =1310nm	---	---	dBm
Sensitivity	Sen	1.25Gbps, PRBS23 BER=10-10, λ =1310nm	---	---	-31	dBm
Optical Return Loss	ORL		-7	---	---	dB
Optical Crosstalk	XTALK		---	---	-45	dB

4. Dimension Outline

