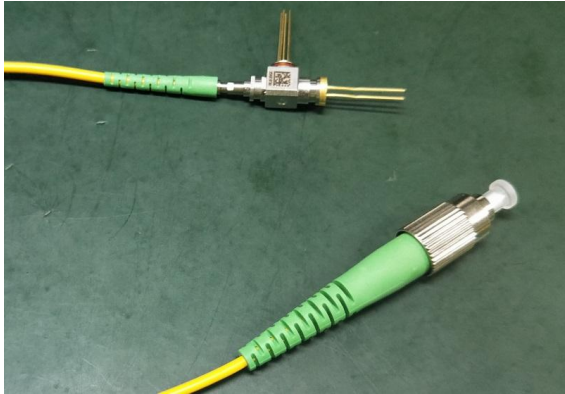




产品描述

- 该产品为上行 1310/1550nm 波长/工作速率 2.5Gb/s, 下行 1550/1310nm 工作速率 2.5Gb/s 的尾纤式 BOSA 组件
- 发端采用 DFB 激光器, 收端采用 PIN-TIA 二极管
- 芯片信息:
 - LD: 1310nm/1550nm 2.56Gpbs DFB 4PIN
 - PT: 2.5Gpbs 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, 接收端粘接结构, 带隔离器

产品应用

- 远程通讯

2.5G Pigtail-APC-BOSA

产品特点

- 采用激光焊接方案
- 上行下行速率均为 2.5G
- 高光学隔离
- 工作温度: -40°C~85°C
- 尾纤式单纤双向光组件
- 有多种纤长 (依据客户要求)

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}	$^{\circ}C$	-40	+85	
Operating Temperature (ambient)	T_{OPR}	$^{\circ}C$	-30	+85	
Supply Voltage	V_{CC}	V	-0.5	4.5	
Lead Soldering Temperature	T_S	$^{\circ}C$	—	260	
Forward Current (LD)	I_{FLD}	mA	—	150	
Reverse Voltage (LD)	V_{RLD}	V	—	2	
Forward Current (MPD)	I_{FMPD}	mA	—	10	
Reverse Voltage (MPD)	V_{RMPD}	V	—	15	

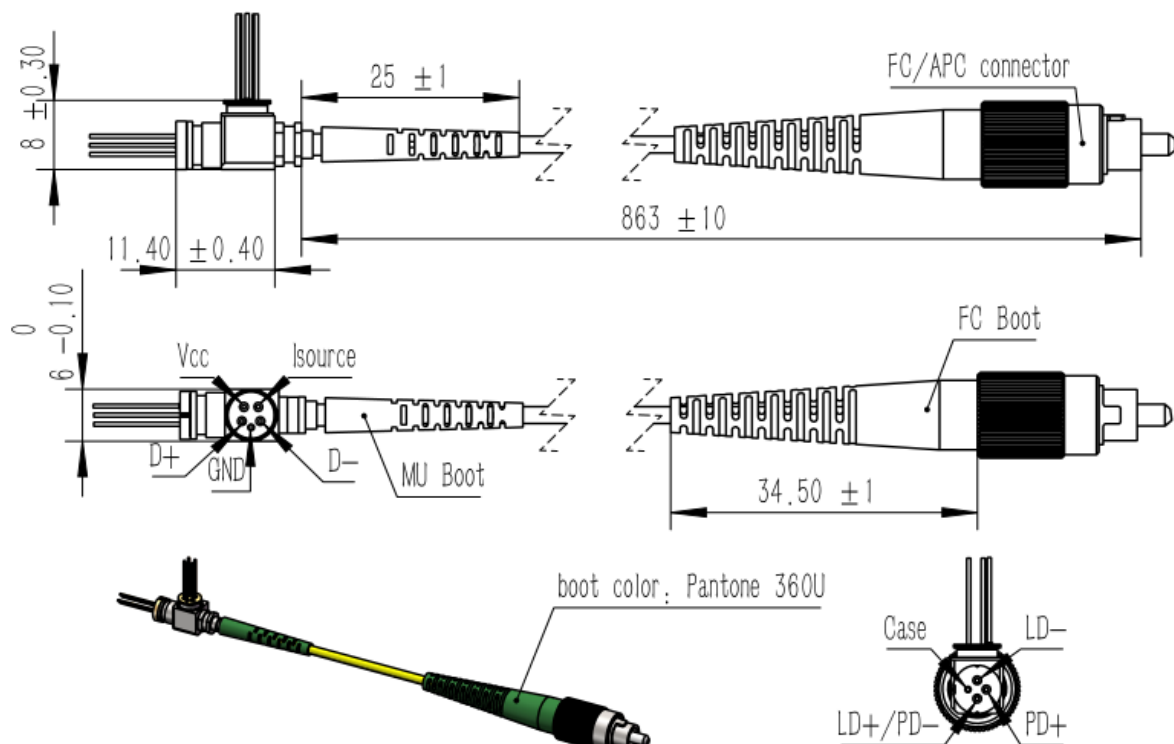
2. Transmitter Electro-Optical Characteristics (TC=25°C, CW)

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Threshold Current	I_{TH}	TC=25°C	—	8	15	mA
		TC= -40~+85°C,	—	—	45	
Forward Voltage	V_F	PF=PF (Min), TC =25°C	—	—	1.5	V
Optical Output power	P_f	CW, $I_{op}=I_{th}+20mA$	0.9	—	1.5	mW
Optical Output power	P_f	CW, @ $I_{TH}+20mA$, -40~ 85°C	0.5			mW
Center Wavelength	λ_c	T13/R15	1307	—	1311	nm
		T15/R13	1547	—	1551	nm
Monitor Current	I_M	DC, $I_{op}=I_{th}+20mA$	100	—	800	uA
Tracking Error	$\Delta P_f/P_f$	APC, -30°C/+25°C, +25°C/+85°C	-1.2	—	+1.2	dB

3. Receiver Electro-Optical Characteristics (TC=25°±3C, 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	Tc=-30°C to 85°C T13/R15	—	1550	—	nm
		Tc=-30°C to 85°C T15/R13	—	1310	—	nm
Saturation Power	P _{SAT}	6Gbps PRBS=2 ²³ -1, ER≥	0	—	—	dBm
Sensitivity	Sen	9dB, BER≤10 ⁻¹² , CW	—	—	-16	dBm
Optical Return Loss	ORL	λ =1550nm T13/R15	—	—	-20	dB
		λ =1310nm T15/R13	—	—	-20	dB
Optical Crosstalk	XTALK	1550nm/1310nm T13/R15	—	—	-45	dB
		1310nm/1550nm T15/R13	—	—	-45	dB

4. Dimension Outline



注：单位，mm，未注公差±0.05mm。