



10G EPON 对称 ONU BOSA

(F.L=7.5&10.2 Aspheric lens,电绝缘)

产品描述

- 该产品为上行 1270nm 波长工作速率 10.3125Gbps、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: 1270nm 103125Gbps DFB 4PIN
PT: 10.3125Gbps 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°C ~ 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 _{FDP} | mA | --- | 10 | |
| Reverse Voltage (PD) | V _{RDP} | 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°C ~ 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 | 3.0 | --- | --- | mW |
| Optical Output power | P _f | CW, @I _{TH} +20mA, 0°C ~ 75°C | 1.8 | | | mW |
| Optical Output power | P _f | 或依据客户需求 | | | | mW |
| Center Wavelength | λ _C | CW, TC=0°C ~ 75°C, TX;1270nm | 1260 | 1270 | 1280 | nm |
| Monitor Current | I _M | CW, P _f =I _{th} +20mA, V _{RMPD} =1.5V, T _c =25C, | 100 | --- | 900 | uA |
| Tracking Error | ΔP _f /P _f | 0°C ~ 75°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:1577nm | 1575 | 1577 | 1580 | nm |
| Saturation Power | P _{SAT} | T _c =0°C ~ 75°C(Test at 10.3125Gbps PRBS31 ER=6dB BER<10E-3) | -8 | --- | --- | dBm |
| Sensitivity | Sen | T _c =0°C ~ 75°C(Test at 10.3125Gbps PRBS31 ER=6dB BER<10E-3) | --- | --- | -30 | dBm |
| Optical Return Loss | ORL | λ =1577nm | 20 | --- | --- | dB |
| Optical Crosstalk | XTALK | 1270nm/1577nm | 40 | --- | --- | dB |

4. Dimension Outline

