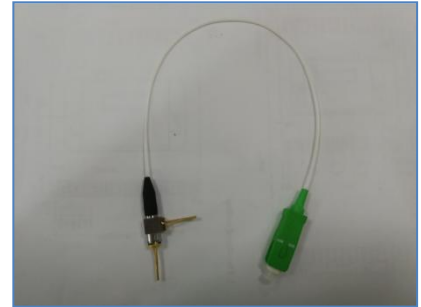




Bi-directional Optical Sub Assembly

Features

- Designed for short or long reach application
- InGaAs Photodiode
- Integrated 1610/1550nm WDM for a single fiber
- MQW DFB Laser device



Specifications:

Absolute Maximum Ratings

| Parameter | Symbol | Min | Max. | Unit |
|-------------------------|--------------|-----|------|------|
| LD Reverse Voltage | $V_{r(LD)}$ | -- | 2 | V |
| LD Forward Current | $I_{f(LD)}$ | -- | 120 | mA |
| Reverse Voltage (MPD) | $V_{r(MPD)}$ | -- | 10 | V |
| Input optical power | P_{in} | -- | 3 | dBm |
| Operating Temperature | T_{op} | -20 | 85 | |
| Storage Temperature | T_{stg} | -40 | 100 | |
| Lead Solder Temperature | -- | -- | 260 | |
| Lead Soldering Time | -- | -- | 2 | s |

Transmitter Optical & Electrical Characteristics (T=25°C)

| Parameter | Symbol | Test Condition | Min | Typ | Max | Unit |
|-----------------------------|----------|----------------------|------|------|------|------|
| Threshold Current | I_{th} | 25 | -- | 12 | 20 | mA |
| Forward Voltage | V_f | $I_{op}=I_{th}+20mA$ | -- | 1.1 | 1.6 | V |
| Monitor Current(MPD) | I_m | $I_{op}=I_{th}+20mA$ | 100 | -- | 1000 | uA |
| Dark Current(MPD) | I_d | $V_r=5V$ | -- | -- | 200 | nA |
| Optical Output Power | P_o | $I_{op}=I_{th}+20mA$ | 1.0 | -- | 3.2 | mW |
| Slope Efficiency | SE | $I_{op}=I_{th}+20mA$ | 0.05 | -- | 0.16 | W/A |
| Central Wavelength | | $I_{op}=I_{th}+20mA$ | 1607 | 1610 | 1613 | nm |
| Spectral Width (-20dB) | | $I_{op}=I_{th}+20mA$ | -- | -- | 1 | nm |
| Side-mode Suppression Ratio | SMSR | $I_{op}=I_{th}+20mA$ | 30 | -- | -- | dB |
| Optical Isolation | ISO | -- | 30 | -- | -- | dB |

Receiver Optical/Electrical Characteristics

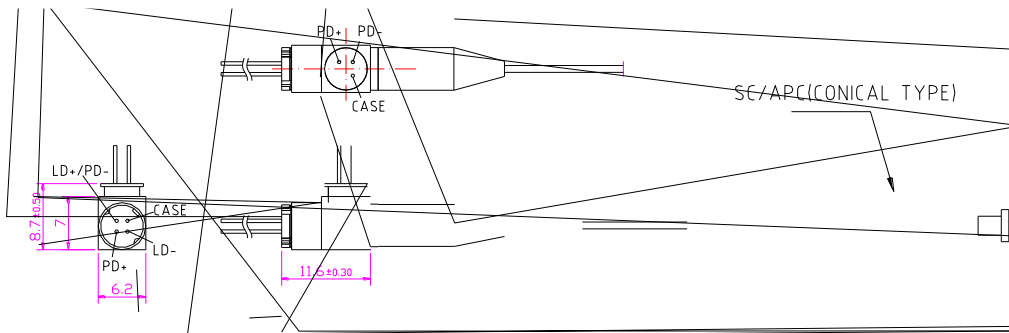


| Parameter | Symbol | Test Condition | Min | Typ | Max | Unit |
|----------------------|--------|----------------|------|------|------|------|
| Responsivity | Res | 1550nm | 0.8 | 0.85 | -- | A/W |
| Dark Current | Id | -- | -- | -- | 2 | nA |
| Optical Return Loss | ORL | 1550nm | -- | -- | -40 | dB |
| Operating Wavelength | | -- | 1525 | 1550 | 1565 | nm |

Optical Connector & Pigtail Characteristics

| Parameter | Specifications | Remarks |
|--------------|----------------|-----------------------------|
| Optical Port | Connector | SC/APC |
| | Fiber Color | white |
| | Fiber Length | 22cm±3cm |
| | Fiber | SMF |
| | | CONICAL TYPE |
| | | Loose tube is Hytel |
| | | Length to the connector end |

Mechanical Dimension and Pin Assignment:



Order Information:

BOSA 2.5G 1610nm DFB-1550PD

| |
|--------------|
| □ |
| |
| Fiber Length |
| 1m:1.0±0.1m |
| 2m:2.0±0.1m |
| |



Statement:

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