

Single-Channel Miniature Optical Power Monitor

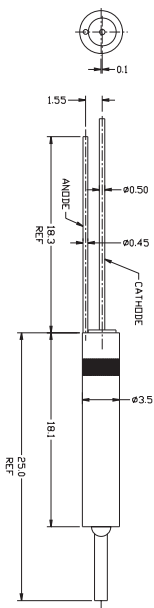
Features/Benefits

- Wide wavelength coverage (C-, L-band and C- & L-band)
- Compact coaxial package
- Small responsivity ripple
- Excellent responsivity linearity
- Low insertion loss
- Low polarization dependent loss
- Low wavelength dependent loss
- Low polarization dependent responsivity
- Minimizes fiber splicing
- Saves board space
- Simplifies logistic management
- Cost effective

Applications

- EDFA
- Raman amplifier
- DWDM mux/demux
- OADM
- Protection switch
- Other monitoring applications

Dimensions



Unit: mm

General Specifications

| Parameters | | Unit | Min. | Typ. | Max. |
|---|-------------|------|--|------|-------|
| Operating Wavelength Range | C-band | nm | 1525 | 1550 | 1565 |
| | L-band | nm | 1570 | 1593 | 1615 |
| | C- & L-band | nm | 1525 | 1570 | 1615 |
| Polarization Dependent Loss | | dB | - | 0.03 | 0.1 |
| Wavelength Dependent Loss | | dB | - | 0.05 | 0.15 |
| Polarization Mode Dispersion | | ps | - | - | 0.1 |
| Optical Return Loss | | dB | 45 | - | - |
| Responsivity Flatness (with respect to band center) | | dB | - | - | ± 0.3 |
| Polarization Dependent Responsivity | | dB | - | 0.03 | 0.1 |
| Linearity | | % | - | - | ± 5 |
| Reverse Voltage | | V | - | 5 | 20 |
| Forward Current | | mA | - | - | 10 |
| Dark Current @ 23°C, -5V | | nA | - | 0.5 | 1.0 |
| High Frequency Response Limit | | GHz | 0.6 | - | - |
| Operating Temperature | | °C | -5 | - | 70 |
| Storage Temperature | | °C | -40 | - | 85 |
| Fiber Pigtail | | - | SMF-28, 250µm bare fiber or 900µm loose tube | | |
| Dimension | | mm | Φ 3.5 × 18.1 | | |

Optical Performance vs Splitting Ratio

| Tap Ratio (%) | Max. Insertion Loss (dB) | | | | Min. Responsivity (µA/mW) | Max. Input Optical Power (mW) |
|---------------|--------------------------|---------|----------|---------|---------------------------|-------------------------------|
| | C or L band | | C+L band | | | |
| | Premium | A Grade | Premium | A Grade | | |
| 1 | 0.3 | 0.4 | 0.4 | 0.5 | 8 | 500 |
| 3 | 0.4 | 0.5 | 0.5 | 0.6 | 24 | 300 |
| 5 | 0.5 | 0.6 | 0.6 | 0.7 | 45 | 300 |

Note: Insertion loss and return loss values are without connectors.

Ordering Information

| | | | | | | | | | | | | | | |
|--|---|---|---|----------------------------|--|--------------------------|-------------------|---|---|--|--|---|--|--|
| M | O | P | M | | | T | | 0 | 0 | 0 | | | | |
| Tapping Wavelength | | | | Tapping Ratio | | Grade | Fiber Type | | | Buffer Type | | Connector | | |
| C= C-band L= L-band E= C- & L-band | | | | 1= 1 % 3= 3 % 5= 5 % | | P= Premium A= A grade | 0= SMF-28 | | | 0= 250µm bare fiber 1= 900µm loose tube | | 0= None 1= FC/UPC 2= FC/APC 3= SC/UPC 4= SC/APC 5= LC/UPC 6= MU/UPC | | |
| | | | | | | | | | | | | Pigtail Length | | |
| | | | | | | | | | | | | 10= 1.0m 15= 1.5m (not avail. with connector) | | |

This product information is subject to change without notice.