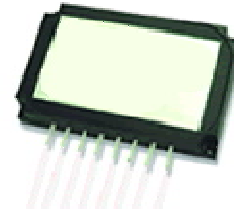


Optical Power Detector Module



Optical power detector module (OPDM) is designed for optical power monitoring. It integrates photo detector and splitter in a small package, and save PCB space significantly. Its optical properties are excellent, including a broad wavelength range covering both C and L-bands, low back-reflection and high sensitivity. Applications include multi-channel power monitoring at DWDM multiplexers/d-e multiplexers or in optical amplifiers power monitor.

Features

Wide operation wavelength(1310 and 1550)

Operating temperature range from 0-70°C with no thermal control

Configurable channels

Applications

DWDM Mux/Demux channel monitoring

EDFA inner monitoring

Add/Drop monitoring

Optical switches

Optical fiber monitoring on ODF

Specifications

| Parameter | Unit | Value | notes |
|---|-------|---|--|
| Splitter ratio | | 99:1 95:5 93:7 90:10 | |
| Insertion loss | dB | <0.5 <0.6 <0.7 <1.0 | |
| PIN responsibility | A/mW | >8 >40 >60 >80 | |
| PIN sensitivity | mA/mW | >0.80 | |
| PDL | dB | <0.1 | Typ. 0.03 |
| PMD | ps | <0.1 | Typ 0.02 |
| Wavelength | nm | 1510-1610, 1260-1360 | |
| Maximum optical power (PIN) | dBm | 10 | |
| Return loss | dB | >45 | |
| fiber type | | SMF-28 | |
| Wavelength dependence of PIN sensitivity | dB | <0.2 | |
| Temperature dependence of PIN sensitivity | dB | <0.3 | |
| Dark current | nA | <1 | |
| Capacitance | pF | 10 | |
| Max rating bias | V | 10 | typ 0 |
| Rise time | ns | 1 | |
| Fall time | ns | 1 | |
| Operating temperature | °C | 0 to 70 | |
| Storage temperature | °C | -40 to 85 | |
| Package dimensions (025 fiber and without amplifier) | mm | Φ5.5x18 55x33x8.5 95x33x8.5 95x33x15.5 | Single channel 8 Channels 16 channels 32 channels |