



Polarization Maintaining Tap Power Detector (PMTAPD)

Rev 11B

Description

AFR's Integrated Polarization Maintaining Tap Power Detector (PMTAPD) integrates the functionality of an optical coupler and a photodiode for optical network's power detection. It applies for channel power monitoring in DWDM system, in-line optical network switching protection monitoring (OLP), re-configurable optical add/drop multiplexer (OADM), and gain/attenuation monitoring in EDFA, etc.

Key Features

- Low Insertion Loss
- Low Dark Current
- Accurate Tap Ratio

Applications

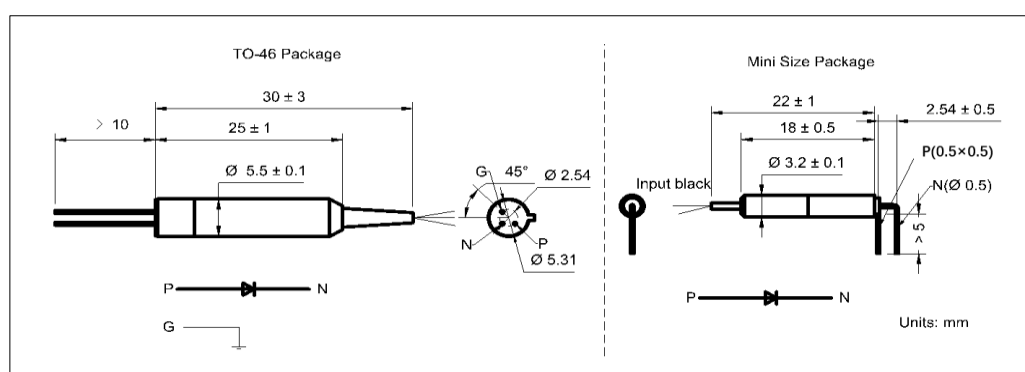
- EDFA
- Optical Sensing System

Specifications

Parameter	Unit	Value
Center Wavelength (λ_c)	nm	1064
Max. Insertion Loss, 5% ¹	dB	0.8
Min. Extinction Ratio, 23 °C ¹	dB	20
Min. Return Loss ¹	dB	45
Min. Responsivity, 5%	mA/W	21
Max. Responsivity Temperature Dependence (λ_c)	dB	0.3
Max. Responsivity Polarization Dependence	dB	0.1
Max. Dark Current (70 °C, - 5 V bias)	nA	10
Max. Power on photodetector	mW	10
Fiber Type	-	Fujikura PM 980 Panda Fiber
Operating Temperature	°C	0 to + 70
Storage Temperature	°C	- 40 to + 85
Soldering temperature (> 2 mm from head, < 5s)	°C	≤ 260

¹IL is 0.5 dB higher, RL is 5 dB lower and ER is 2 dB lower for a pair of connector added. Connector key is aligned to slow axis.

Package Dimensions



Ordering Information

PMTAPD-①①-②②-③-④-⑤-⑥

①①: Center Wavelength

06 - 1064 nm

②②: Tap Ratio

05 - 5%

③: Connector Type

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

N - None

④: Fiber Jacket

B - 250 μ m Bare Fiber

L - 900 μ m Loose Tube

S - Specify

⑤: Fiber Length

Q - 0.75 m

S - Specify

⑥: Package Type

1 - TO-46 Package

2 - Mini Size Package