



Polarization Maintaining Integrated Tap Power Detector (PMTAPD)

Rev 10

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

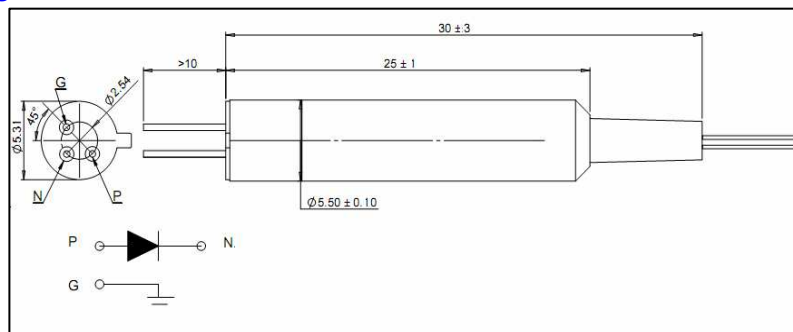
Specifications

Parameter	Unit	Value
Center Wavelength (λ_c)	nm	1550
operating Wavelength Range (λ_{op})	nm	$\lambda_c \pm 30$
Max. Insertion Loss	1%	0.6
	5%	0.7
Wavelength Flatness	dB	≤ 0.2
Min. Return Loss (exclude connector)	dB	50
Polarization Extinction Ratio (if applicable)*	dB	≥ 23
Responsivity	1%	7 - 12
	5%	35 - 55
Dark Current (@ 23 °C, -5 V bias)	2.0 G	< 0.5
	0.5 G	< 2
Operating Temperature	°C	0 to +40
Storage Temperature	°C	-20 to +70
Soldering temperature(over 2 mm from head, less 5 s)	°C	≤ 260

*Optical path and connector key is aligned to slow axis.

*IL is 0.3 dB higher, RL is 5 dB lower and ER is 4 dB lower for a pair of connectors added.

Package Dimensions



Ordering Information

PMTAPD-①①-②-③-④-⑤-⑥-⑦-⑧

①①: Wavelength 55 - 1550 nm	②: Tap Ratio 1 - 1% 5 - 5% S - Specify	③: Bandwidth 1 - 0.5 G 2 - 2 G	④: Package Type 1 - TO-46 package	⑤: Fiber Jacket B - 250 um bare fiber L - 900 um loose tube T - 900 um tight buffer
⑥: Fiber Type 1 - SMF-28 fiber 2 - Panda PM fiber	⑦: Connector Type 1 - FC/UPC 2 - FC/APC	⑧: Fiber Length 1 - 1.0 m Q - 0.75 m		