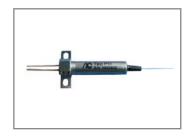


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Bidirectional Integrated TAP Detector



ACP's Bidirectional integrated Tap Detector is a hybrid optical component that combines the functionality of a thin film tap and a PIN optical detector in a compact package for power monitoring applications. The unidirectional design ensures only input port power is detected with a high isolation (directivity) for the reflected light.

All AC Photonics' products are Telcordia qualification tested.

Key Features

- Low IL and PDL
- Low Dark Current
- Excellent Directivity
- Hermetically Sealed PD

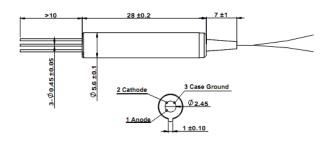
Applications

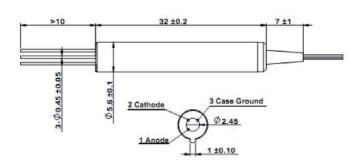
- EDFA Power Control
- DWDM System Monitor
- Network Switch

Performance Specifications

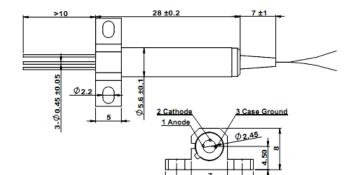
Parameter	Specifications							
Tap Ratio	1%	2%	3%	5%	10%			
Wavelength Range		1310: 1270nm to 1350nm; 1550: 1510nm to 1590nm L-Band: 1570nm to 1610nm; C+L Band: 1500nm to 1620nm O+C+L Band: 1270nm to 1350nm & 1510nm to 1610nm						
Incoming Lond	Single Window	≤ 0.5dB	≤ 0.5dB	≤ 0.5dB	≤ 0.7dB	≤ 0.9dB		
Insertion Loss	Dual Window	≤ 0.7dB	≤ 0.7dB	≤ 0.7dB	≤ 0.9dB	≤ 1.0dB		
Wavelength Flatness		≤ 0.15dB						
Polarization Dependent Loss		≤ 0.1dB						
Return Loss		≥ 45dB						
Optical Power		23dBm	21dBm	18dBm	16dBm	13dBm		
Pagnanaivity (C.I. Pand)	Max	15mA/W	25mA/W	40mA/W	64mA/W	145mA/W		
Responsivity (C,L Band)	Min	7mA/W	13mA/W	25mA/W	42mA/W	70mA/W		
Posponoji vity (1210)	Max	11mA/W	23mA/W	38mA/W	60mA/W	136mA/W		
Responsivity (1310)	Min	5mA/W	11mA/W	23mA/W	40mA/W	65mA/W		
Polarization Dependent Responsivity		≤ 0.1dB						
Operating Temperature		-5 to +70°C						
Storage Temperature		-40 to +85°C						
PD Bias Voltage		5V						
PD Bias Voltage		≤ 20V						
Dark Current@-5V bias		≤ 0.5nA@25°C, ≤ 2nA@70°C						
PD Cut-off Frequency (RL=50, -3dB, -5V)		≥1 GHz						
Fiber Type	SMF-28e or SMF-28XB							
Soloering Temperature	250(<10sec)							

Mechanical Dimensions

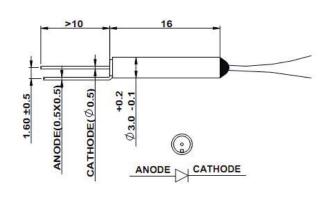




Standard Package (250um fiber)



Standard Package (900um jacket)



Standard Package with Flange

Miniature Package (bare fiber)

Ordering Information

TPTD								
	Channel	Tap Ratio	Package Size	Flange	Pigtail Style	Fiber Length	Fiber Type	In/Out Connector
	13 = 1310nm 15 = 1550nm 16 = L-Band 35 = 1310nm/1550nm CL = C+L Bands 36 = O+C+L Bands	01 = 1% 02 = 2% 03 = 3% 05 = 5% 10 = 10%	S = Standard M = Mini	1 = With Mount Flange 2 = Without Mount Flange	1 = Bare Fiber 2 = 900um Jacket	1 = 1.0m 2 = 2.0m	1 = SMF-28 2 = SMF-28XB	0 = None 1 = FC/APC 2 = FC/PC 3 = SC/APC 4 = SC/PC 5 = ST 6 = LC/UPC 7 = LC/APC 8 = MU