



PM Uni- and Bi-directional Integrated Tap Detector

ACP's PM Uni- and 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.

PERFORMANCE SPECIFICATIONS

Parameter	Specifications		
Operating wavelength (1310nm)	1270 ~ 1350nm		
Operating wavelength (1550nm)	1510 ~ 1610nm		
Operating wavelength (O+C+L band)	1270 ~ 1350nm and 1510 ~ 1610nm		
Tap Ratio	1%	2%	5%
Insertion Loss (Single Window)	≤ 0.70dB	≤ 0.70dB	≤ 0.90dB
Insertion Loss (Dual Window)	≤ 0.90dB	≤ 0.90dB	≤ 1.1dB
Responsivity (Max.)	18 mA/W ⁽¹⁾	29 mA/W ⁽¹⁾	68 mA/W ⁽¹⁾
Responsivity (Min.)	2 mA/W ⁽¹⁾	7 mA/W ⁽¹⁾	36 mA/W ⁽¹⁾
Wavelength Flatness	≤ 0.15dB		
Polarization Dependent Loss	≤ 0.10dB		
Extinction Ratio (Single window)	≤ 20dB		
Extinction Ratio (O+C+L band)	≤ 18dB		
Directivity	≥ 20 ⁽²⁾ dB		
Return Loss	≥ 40dB		
Fiber Type (1310nm band)	PM1310 PANDA Fiber		
Fiber Type (1550nm & O+C+L band)	PM1550 PANDA Fiber		
Optical Input Power (Max.)	≤ 23dBm	≤ 20dBm	≤ 16dBm
Soldering Temperature	250 (≤ 10sec)°C		
Operating Temperature	-5 to +70°C		
Storage Temperature	- 40 to +85°C		
Package Dimensions (mm)	See "MECHANICAL DIMENSIONS"		

FEATURES

- Low IL and High Extinction Ratio
- Low Dark Current
- Excellent Directivity
- Hermetically Sealed PD

APPLICATION

- EDFA Power Control
- DWDM System Monitor
- Network Switch

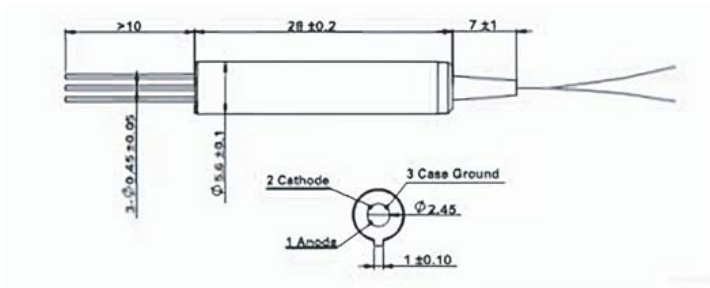
Note:

- 1) The responsivity is best effort values.
- 2) Directivity is only for Uni-directional one.

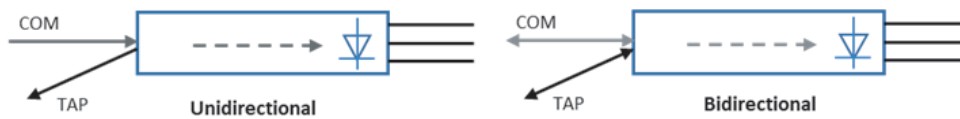
All values referenced are without connector.

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MECHANICAL DIMENSIONS



PORT CONFIGURATIONS



ORDERING INFORMATION

Type	Operating Wavelength	Tap Ratio	Package	Fiber Type	Pigtail Style	Fiber Length	In Connector	Out Connector	Option
PMTDU=Unidirectional	31=1310nm	01=1%	A=Standard	M=PM1310	1=Bare fiber	07=0.75m	0=None	0=None	1=With mount flange
PMTDB=Bidirectional	55=1550nm	02=2%		M=PM1550	2=900um	10=1.0m	1=FC/APC	1=FC/APC	
	OCLB=O+C+L band	05=5%			loose tube		2=FC/PC	2=FC/PC	2=Without mount flange
							3=SC/APC	3=SC/APC	
							4=SC/PC	4=SC/PC	
							5=ST	5=ST	
							6=LC/UPC	6=LC/UPC	
							7=LC/APC	7=LC/APC	

RELATED PRODUCTS

[Hybrid_PD+Tap coupler](#)

[Photodiodes_Tap PD](#)