



Uni- and Bi-directional Integrated Tap Detector

ACP's 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 ~ 1590nm				
Operating wavelength (L-band)	1570 ~ 1610nm				
Operating wavelength (O+C+L band)	1270 ~ 1350nm and 1510 ~ 1610nm				
Tap Ratio	1%	2%	3%	5%	10%
Insertion Loss (Single Window)	≤ 0.50dB	≤ 0.50dB	≤ 0.50dB	≤ 0.70dB	≤ 0.90dB
Insertion Loss (Dual Window)	≤ 0.70dB	≤ 0.70dB	≤ 0.70dB	≤ 0.90dB	≤ 1.00dB
Responsivity (C&L Band) (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
Responsivity (1310nm) (Max.)	11mA/W	23mA/W	38mA/W	60mA/W	136mA/W
Responsivity (1310nm) (Min.)	5mA/W	11mA/W	23mA/W	40mA/W	65mA/W
Wavelength Flatness	≤ 0.15dB				
Polarization Dependent Loss	≤ 0.10dB				
Directivity	≥ 25 ¹⁾ dB				
Return Loss	≥ 45dB				
Optical Input Power (Max.)	≤ 23dBm	≤ 20dBm	≤ 18dBm	≤ 16dBm	≤ 13dBm
Soldering Temperature	250 (≤ 10sec)°C				
Operating Temperature	-5 to +70°C				
Storage Temperature	-40 to +85°C				
Package Dimensions (mm)	See "MECHANICAL DIMENSIONS"				

Note:

1) For unidirectional only.

All values referenced are without connector.

FEATURES

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

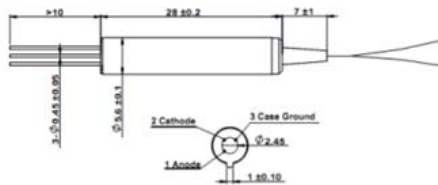
APPLICATION

- EDFA Power Control
- DWDM System Monitor
- Network Switch

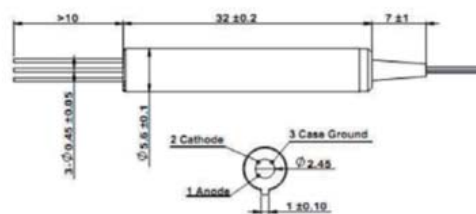
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MECHANICAL DIMENSIONS

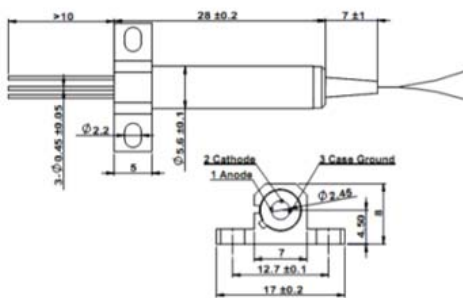
MECHANICAL DIMENSIONS



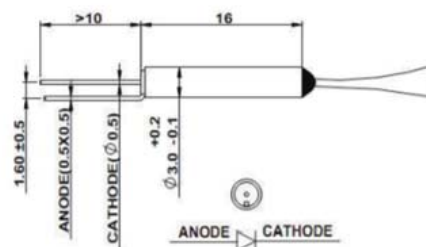
Standard Package (250um fiber)



Standard Package (900um jacket)

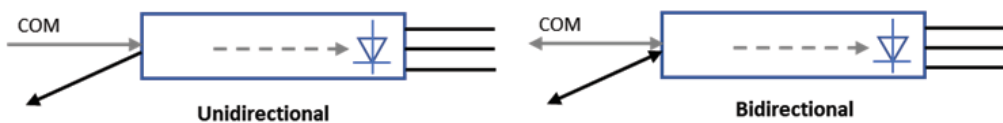


Standard Package with Flange



Miniature Package (bare fiber)

PORT CONFIGURATIONS



ORDERING INFORMATION

Type	Operating Wavelength	Tap Ratio	Package	Fiber Type*	Pigtail Style	Fiber Length**	In Connector	Out Connector	Option
TDU=Unidirectional	31=1310nm	01=1%	A=A package	2=SMF-28 Ultra	1=Bare fiber	05=0.5m	0=None	0=None	1=With mount flange
TDB=Bidirectional	55=1550nm	02=2%	M=Mini	(G.657.A1)	2=900um	10=1.0m	1=FC/APC	1=FC/APC	
	58=L band	03=3%		3=ClearCurve	loose tube	.	2=FC/PC	2=FC/PC	2=Without mount flange
	3155=1310/1550nm	05=5%		ZBL(G.657.B3)		.	3=SC/APC	3=SC/APC	
	5558=1550/1585nm	10=10%				.	4=SC/PC	4=SC/PC	
	OCLB=O+C+L band					20=2.0m	5=ST	5=ST	
							6=LC/UPC	6=LC/UPC	
							7=LC/APC	7=LC/APC	

*1=SMF-28(G.652) is available upon request.

**Other length is available upon request, However, 900um loose tube is only up to 2m.