

OPTICAL TAP DETECTOR MODULE

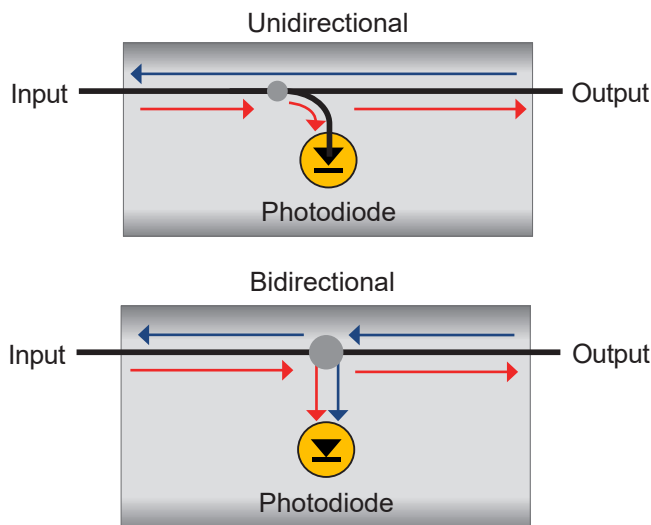
Polarization Maintaining Fiber



DiCon's **OPTICAL TAP DETECTOR MODULE** provides in-line power monitoring of up to sixteen different fibers. This is accomplished by utilizing thin film couplers on every input, which tap off a portion of the signal and delivers it to a photodetector for power measurement.

- High Directivity of 23 dB min (Unidirectional)
- Houses & Controls Up To 16 Tap Detectors
- Hermetically Sealed for Long Term Reliability
- Compact Form Factor
- Flat Spectral Response

Functionality Type



ORDERING INFORMATION

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Device Type

T Tap Detector

Number of Device

1 1 Device

Configuration

X/Y # of Channels / Tap Ratio %

Fiber Type

PM13¹ Corning PM 1300 Fiber

PM15² Corning PM 1550 Fiber

**Other fiber options are available upon request*

1. PER specification covers O band

2. PER specification covers C/L band

Test Wavelength

O 1310 nm

C 1550 nm

L 1590 nm

**Use "/" to add multiple wavelengths*

(E.g., O/C or O/C/L)

Control Interface

U USB, RS232, I²C

Fiber Jacket Type

9L 900 μm Loose Tube

Functionality Type

U Unidirectional

B Bidirectional

Connector Type

N None

FC FC/UPC

FC/APC FC/APC

LC LC/UPC

LC/APC LC/APC

SC SC/UPC

SC/APC SC/APC

**Other connector types are available upon request*

Connector Key Orientation

N None

S Slow Axis

F Fast Axis

Pigtail Length

1 1 Meter

X Specify X Meter

OPTICAL TAP DETECTOR MODULE

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OPTICAL SPECIFICATIONS¹

Operating Wavelength		1260 to 1680 nm
Insertion Loss ²	1% Tap Ratio	0.4 dB max.
	2%	0.5 dB max.
	5%	0.6 dB max.
	10%	0.8 dB max.
Dynamic Power Range	1% Tap Ratio	-47 to 25 dBm
	2%	-50 to 22 dBm
	5%	-54 to 18 dBm
	10%	-57 to 15 dBm
Relative Measurement Accuracy ³		±0.2 dB max.
Directivity	Unidirectional	23 dB min.
	Bidirectional	0.2 dB max.
Back Reflection		-45 dB max.
WDL ⁴		0.1 dB min. ^{5,6}
PER ⁷		18 dB min.
Optical Power ⁸		500 mW max.
Fiber Type		Panda PM

- All specifications are measured separately at room temperature for each Test Wavelength
- Measured with 3-jumper method or equivalent (See TIA/EIA 526-7)
- For power range when
 - Input power >-27 dBm for 1% tap ratio
 - Input power >-30 dBm for 2% tap ratio
 - Input power >-34 dBm for 5% tap ratio
 - Input power >-37 dBm for 10% tap ratio
- WDL is defined within Test Wavelength ±20 nm
- Dual-band adds 0.1 dB
- Full-band adds 0.3 dB
- PER with connectors is 16 dB minimum
- Met by design, not measured

ELECTRICAL SPECIFICATIONS

Latching Type	Non-latching
Control Type	RS232, I ² C, or USB
Supply Voltage	12 VDC
Power Consumption	9.5 W max. Start Up 4.5 W max. Operating
Connector Type	Samtec P/N: STMM-108-02-G-D
Mating Connector	Samtec P/N: TCSD-08-01-F-N

MECHANICAL DRAWING

Dimensions in mm

