

# OPTICAL TAP DETECTOR MODULE

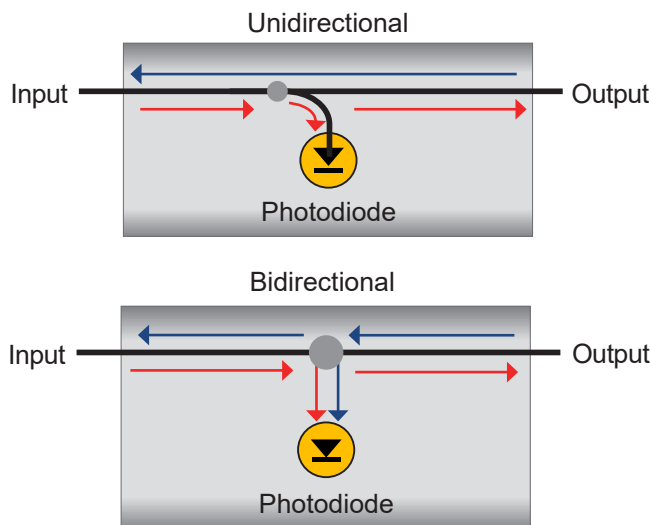
## Singlemode Fiber



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.

- Houses & Controls Up To 16 Tap Detectors
- Hermetically Sealed for Long Term Reliability
- Compact Form Factor
- Flat Spectral Response

### Functionality Type



## ORDERING INFORMATION

**ATE1 - T - 1 - □ - 9 - □ - U - 9L - □ - □ - N - □**

### Device Type

**T** Tap Detector

### Number of Device

**1** 1 Device

### Configuration

**X/Y** # of Channels / Tap Ratio %

### Fiber Type

**9** 9/125  $\mu$ m SMF

*\*Other fiber options are available upon request*

### 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, I<sup>2</sup>C

### Fiber Jacket Type

**9L** 900  $\mu$ m 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

### Pigtail Length

**1** 1 Meter

**X** Specify X Meter

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### OPTICAL SPECIFICATIONS<sup>1</sup>

Operating Wavelength		1260 to 1680 nm
Insertion Loss <sup>2</sup>	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 <sup>3</sup>		±0.2 dB max.
Directivity	Unidirectional	23 dB min.
	Bidirectional	0.2 dB max.
Back Reflection		-50 dB max.
WDL <sup>4</sup>		0.1 dB min. <sup>5,6</sup>
PDL <sup>7</sup>		0.1 dB max.
Optical Power <sup>8</sup>		500 mW max.
Fiber Type		Singlemode

1. All specifications are measured separately at room temperature for each Test Wavelength
2. Measured with 3-jumper method or equivalent (See TIA/EIA 526-7)
3. 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
4. WDL is defined within Test Wavelength ±20 nm
5. Dual-band adds 0.1 dB
6. Full-band adds 0.3 dB
7. Multi-band adds 0.1 dB
8. Met by design, not measured

### ELECTRICAL SPECIFICATIONS

Latching Type	Non-latching
Control Type	RS232, I <sup>2</sup> 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-018-02-G-D
Mating Connector	Samtec P/N: TCSD-08-01-F-N

### MECHANICAL DRAWING

Dimensions in mm

