DiCon Fiberoptics, Inc.

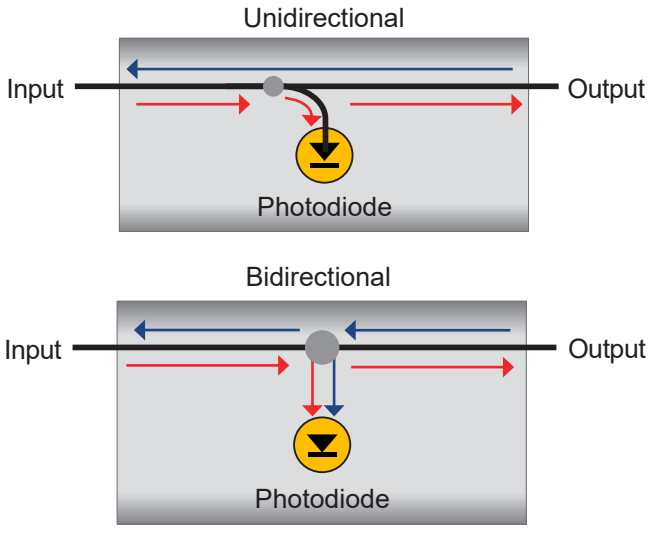
OPTICAL TAP DETECTOR MODULE

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 µm 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^2C

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

Pigtail Length

1	1 Meter
X	Specify X Meter

TAA COMPLIANT

DiCon® FIBEROPTICS

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OPTICAL SPECIFICATIONS[1]

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		-50 dB max.
WDL[4]		0.1 dB min.[5,6]
PDL[7]		0.1 dB max.
Optical Power[8]		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^2C, 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