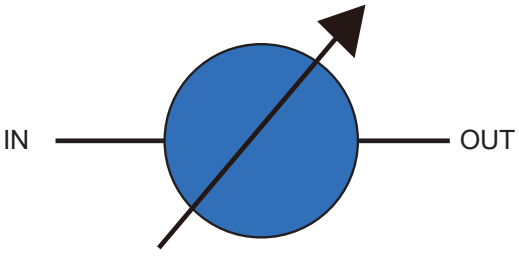
DiCon Fiberoptics, Inc.

MULTI-CHANNEL MEMS VOA MODULE

Polarization Maintaining Fiber

DiCon's **MEMS Variable Optical Attenuator Module** can precisely control up to sixteen MEMS VOAs. This module offers a protected and easy way to control multiple VOAs through a single RS-232, USB or I2C interface.

- Houses & Controls Up To 16 VOAs
- Proven MEMS Durability and Reliability
- Compact Form Factor
- Wide Attenuation Range
- Low Insertion Loss



ORDERING INFORMATION

ATE1-A-1-□-□-□-□-□-U-9L-S-□-□-□

Device Type

A	MEMS VOA

Number of Device

1	1 Device

Configuration

X	# of Channels

Alignment Type

T	Transparent
P	Opaque

Fiber Type

PM13[1]	Corning PM 1300 Fiber
PM15[2]	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)*

Attenuation Range

30	30 dB Attenuation
X	Specify X dB min.

**Other attenuation levels are available upon request*

Control Interface

U	USB, RS232, I^2C

Fiber Jacket Type

9L	900 µm Loose Tube

WDL Type

S	Superior Broad Band Flatness

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

TAA COMPLIANT

DiCon® FIBEROPTICS

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OPTICAL SPECIFICATIONS[1]

Operating Wavelength	1260 to 1680 nm	
Excess Loss[2]	0.6 dB max.	
WDL[3]	0 to 1 dB	0.3 dB max.[4]
	1 to 5 dB	0.5 dB max.[4]
	5 to 10 dB	0.6 dB max.[4]
	10 to 20 dB	1.0 dB max.[4]
PER[5]	16 dB min.	
Back Reflection	-50 dB max.	
Response Time	2 ms max.	
Repeatability[6]	0.1 dB max.	
Durability[7]	1 Billion Cycles min.	
Optical Power[7]	500 mW max.	
Fiber Type	Panda PM	

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. WDL is defined within Test Wavelength ±20 nm
4. O-band adds 0.1 dB
5. PER is defined with connectors; PER without connectors is 18 dB minimum
6. Repeatability is defined within 100 cycles
7. 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. Operating 4.5 W Max. Start Up
Connector Type	Samtec P/N: STMM-108-02-G-D
Mating Connector	Samtec P/N: TCSD-08-01-F-N

MECHANICAL SPECIFICATIONS

Dimensions in mm