

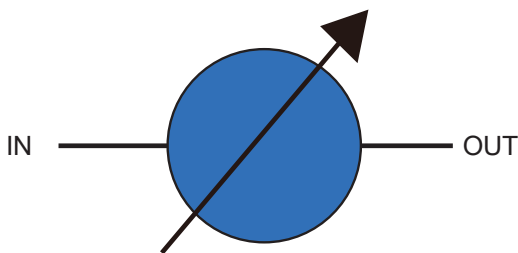
MULTI-CHANNEL MEMS VOA MODULE

Singlemode 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-□-□-9-□-□-U-9L-S-□-N-□

Device Type	A MEMS VOA
Number of Device	1 1 Device
Configuration	X # of Channels
Alignment Type	T Transparent P Opaque
Fiber Type	9 9/125 μm SMF <i>*Other fiber options are available upon request</i>
Test Wavelength	O 1310 nm C 1550 nm L 1590 nm <i>*Use "/" to add multiple wavelengths (E.g., O/C or O/C/L)</i>
Attenuation Range	30 30 dB Attenuation X Specify X dB min. <i>*Other attenuation levels are available upon request</i>
Control Interface	U USB, RS232, I ² C
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/APCSC SC SC/UPC SC/APC SC/APC <i>*Other connector types are available upon request</i>
Connector Key Orientation	N None
Pigtail Length	1 1 Meter X Specify X Meter

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OPTICAL SPECIFICATIONS¹

Operating Wavelength	1260 to 1680 nm	
Excess Loss ²	0.6 dB max. ³	
WDL ⁵	0 to 5 dB	0.3 dB max. ⁴
	5 to 10 dB	0.5 dB max. ⁴
	10 to 20 dB	0.8 dB max. ³
PDL	0 to 15 dB	0.15 dB max. ⁴
	15 to 20 dB	0.2 dB max. ³
Tuning Resolution	0.01 dB max.	
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	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. Multi-band adds 0.2 dB
4. Multi-band adds 0.1 dB
5. WDL is defined within Test Wavelength ± 20 nm
6. Repeatability is defined over 100 cycles
7. Met by design, not measured

ELECTRICAL SPECIFICATIONS

Latching Type	Non-latching
Control Type	RS232, I ² C, or USB
Vcc 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

