

MEMS RACKMOUNT OPTICAL ATTENUATOR

DiCon's MEMS Rackmount Optical Attenuator system allows easy computer control of DiCon's industry proven, long life, MEMS variable optical attenuators.



FEATURES

- Industry Proven, DiCon MEMS Optical Attenuators
- Long Lifetime, Over 1 Billion Cycles
- Easy-To-Use Rack Mount Housing
- Ethernet or RS-232 Interface

APPLICATIONS

- Test & Measurement
- Research & Development
- Precise Power Adjustment of Light Sources
- OSNR Measurements



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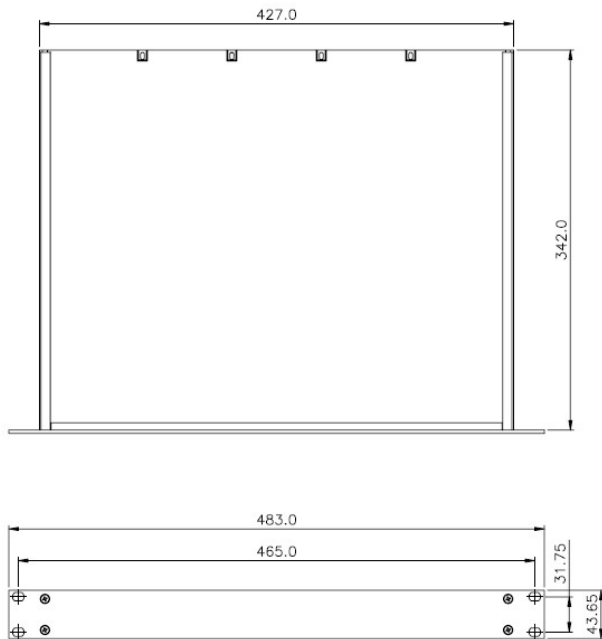
OPTICAL SPECIFICATIONS^{1,8}

PARAMETER		RATING	
Excess Loss		0.8 dB max.	
WDL ²	Broad Band Application	0 to 5 dB	0.2 dB max. ³
		5 to 10 dB	0.3 dB max. ⁴
		10 to 20 dB	0.7 dB max. ⁴
PDL	Narrow Band Application ⁶	0 to 20 dB	0.2 dB max. ⁵
		0 to 15 dB	0.15 dB max. ⁵
Back Reflection		-50 dB max.	
Tuning Resolution		0.01 dB max.	
Optical Power		500 mW max.	
Repeatability ⁷		0.1 dB max.	
Durability		1 x 10 ⁹ cycles min.	
Fiber Type		9/125 single mode fiber	

- All Specifications at room temperature, without connectors
- WDL is for single band wavelength measured from CWL
- Operation from 1290 - 1330nm or 1570-1610 nm adds 0.2dB
- Operation from 1290 - 1330nm or 1570-1610 nm adds 0.3dB
- Operation from 1290 - 1330nm or 1570-1610 nm adds 0.1dB
- Maximum change of each 2 nm segment within the operating range
- Repeatability is defined within 100 cycles
- DiCon recommends use of external detectors or a dynamic power equalizer module for applications requiring absolute attenuation accuracy.

MECHANICAL DIMENSIONS

1U 19" RACKMOUNT CHASSIS



ELECTRICAL SPECIFICATIONS

PARAMETER		RATING
Latching Type		Non-latching
Control Type		Ethernet or RS232
Input Voltage		90 - 264 VAC
Connector Type	Ethernet	RJ45
	RS232	9 Pin DB9

ORDERING INFORMATION

MTR - - - - - - - 9 - - -

Product Code

MTR MEMS Rackmount Attenuator

Number of Attenuators

N # of Attenuators (Specify N≤8)

Housing Type

1U 1U Rackmount

Control Interface

ETH Ethernet
RS2 RS232
E/R Ethernet & RS232

Only one control interface can be selected at a time.

Wavelength Range¹

13 1290 - 1330 nm
15 1528 - 1563 nm
16 1570 - 1610 nm
13/15² 1290 - 1330 nm & 1528 - 1563 nm
15/16² 1528 - 1563 nm & 1570 - 1610 nm

1. Custom wavelength ranges available

2. Each wavelength band will have its own attenuation curve and only one curve can be used at a time.

Attenuator Range

30 30 dB min.
X Specify X dB min. (X ≤40)

Ripple Type

S Slow Ripple (Broad band)
F Fast Ripple (Narrow band)

Fiber Type

9 Corning SMF-28
Or other equivalent 9µm Singlemode fiber

Connector Type

FC/SPC FC/SPC
FC/APC FC/APC
LC/SPC LC/SPC
LC/APC LC/APC
SC/SPC SC/SPC
SC/APC SC/APC
Other connector types are also available

Port Type

B Bulkhead Adaptors

Port Location

F Front Panel
R Rear Panel