

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



MEMS RACKMOUNT OPTICAL ATTENUATOR

OPTICAL SPECIFICATIONS¹

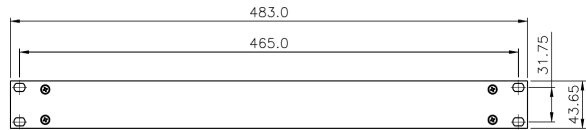
PARAMETER		RATING	
Excess Loss ²		0.8 dB max.	
PDL ³	0 - 10 dB	0.15 dB max.	
	10 - 20 dB	0.2 dB max.	
	20 - 30 dB	0.3 dB max.	
WDL	Broad Band Application	0 - 10 dB ³	0.5 dB max.
		10 - 20 dB ⁴	0.7 dB max.
		20 - 30 dB ⁵	1.2 dB max.
	Narrow Band Application ⁶	0 - 30 dB ³	0.2 dB max.
Back Reflection		-50 dB max.	
Tuning Resolution		0.01 dB	
Optical Power		500 mW max.	
Repeatability ⁷		0.1 dB max.	
Durability		1 x 10 ⁹ cycles min.	
Fiber Type		9/125 μm single mode	

ELECTRICAL SPECIFICATIONS

PARAMETER		RATING
Control Type		Ethernet or RS232
Input Voltage		85 - 264 VAC
Connector Type	Ethernet	RJ45
	RS-232	9 Pin DB9

MECHANICAL DIMENSIONS

1U 19" RACKMOUNT CHASSIS



- All specifications are without connectors.
- Excess Loss is measured at CWL, 23°C.
- Operating from 1290 - 1330nm adds 0.1 dB.
- Operating from 1290 - 1330nm adds 0.3 dB.
- Operating from 1290 - 1330nm adds 0.4 dB.
- Maximum change every 2nm.
- Repeatability defined for 100 cycles.

ORDERING INFORMATION

MTR - □ - 1U - □ - □ - □ - □ - □ - □ - □ - □

Product Code

MTR Rackmount MEMS Optical Attenuator

Number of Attenuators

N Number of Attenuators (Specify N = 1 to 8)

Housing Type

1U 1U Rackmount

Control Interface

ETH Ethernet
RS2 RS232

Wavelength Range

13 1290 - 1330 nm
15 1529 - 1564 nm
16 1575 - 1610 nm
13/15 1290 - 1330 & 1528 - 1563

Attenuator Range

30 30 dB min.
X Specify X dB min. (X <= 40)

Port Location

F Front Panel
R Rear Panel

Port Type

B Bulkhead Adaptors
1 1 Meter Loose-Tube Pigtails
X Specify X Meters
Tolerance is +/- 0.05m

Connector Type

FC/SPC FC/SPC
FC/APC FC/APC
Also Available: SC, SC/UPC, SC/APC, ST, ST/UPC, LC

Fiber Type

9/B SMF-28, Bulkhead Adaptors
9/LT SMF-28, Loose-Tube Pigtails

Ripple Type

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