

## Mirror MEMS Variable Optical Attenuator



### Product Introduction

Mirror MEMS Attenuators are based on a micro-electro-mechanical system (MEMS) technology. The MEMS attenuators design achieves highly repeatable optical attenuation over C and/or L band through an electrically movable mirror on silicon.

### Features

- Low insertion loss
- Compact size
- Available in both normally open and normally closed states
- Excellent reliability

### Applications

- Power equalization in multi-channel, optically amplified networks
- Gain-tilt control in erbium doped fiber amplifiers (EDFAs)
- Dynamic Gain/Channel Equalizers (DGE/DCE) in DWDM/CWDM networks, For ROADM power balance
- Photoreceiver trimming
- Receiver protection/switch during transmitter turn-ons

### Standards

- Telcordia GR-1221-CORE
- RoHS

### Specifications

Parameter	Unit	Value		
		Min	typical	Max
Wavelength	nm	C Band 1528-1565		L Band 1570-1607
Insertion Loss	dB			0.8
Return Loss	dB	40		
Attenuation Range	dB	30		
PDL	0~15	dB		0.3
	15~20			0.5
TDL	0~15	dB	0.5	0.6
	15~20		0.8	1
Response time	ms			10
Polarization Mode Dispersion	ps			0.1
Maximum Optical Power	mW			300
Repeatability	dB			0.1
Operation Temperature	°C	-5~+65		
Package	mm	Φ5.35x26		

Note: 1. All insertion loss don't include connector loss.

### Ordering Information

MSVOA- □-□-□-□-□-□-□

Operation Voltage: 5:5V、15:15V

Connector: FC,SC,LC,MU/PC,UPC,APC,00: no connector

NA: the connectors are different between input ports and output ports.

Fiber length: 1:1m、customer specify

Fiber Dia.: 025: Φ0.25mm、09: Φ0.9mm

Attenuation Range.: 15: 15dB、20:20dB、25:25dB、30:30dB

Operating Wavelength: C:C Bband、L:L Bband、C/L:C+L band

Type: D:Dark、B:Bright