MEMS Variable Optical Attenuator (MEMS VOA)

Description

MEMS VOA is an optical attenuator based on Micro-Electro-Mechanical System (MEMS) technology. The coupling efficiency is varied by applying a voltage to rotate the mirror. It is widely used in optical fiber communication systems, fiber lasers, optical fiber sensors and instrumentation.

Key Features

- Mini Size
- Low insertion loss
- Low Power Consumption

Applications

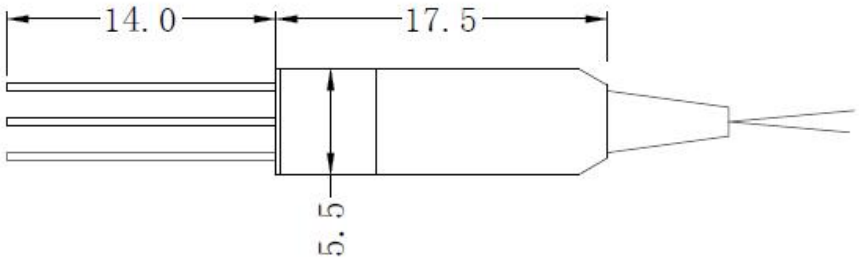
- Power management
- WDM System
- Test & Measurement
- Optical Instruments

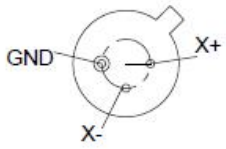
Specifications

Type / Parameter	Unit	MEMS VOA	
Center wavelength	nm	840, 1064 etc.	1310, 1550 etc.
Bandwidth		±10	±20
Attenuation type	/	Bright or Dark	
Insertion loss	dB	≤1.0	≤0.8
Attenuation range	dB	≥25, 30, 40	
Polarization dependence loss @0 dB	dB	≤0.1	≤0.1
Polarization dependence loss @20 dB	dB	≤0.5	≤0.3
Return loss	dB	≥45	
Response Time	ms	≤5	
Handling power	mW	≤300	
Drive Voltage	V	≤8	
Fiber type	/	SM fiber	
Operating temperature	℃	-5~+70	
Storage temperature	℃	-40~+85	
Dimensions	mm	Φ5.5× L17.5	

***IL is 0.2dB(1310~1550nm) or 0. 4dB(1064nm) or 0.8dB(840nm) higher, RL is 5dB lower for connector added.**

Mechanical Dimension





Ordering Information

MEMS VOA-XXXX-X-XX-X-X-XX/XXX-XX*XX

- Package: 5.5*17.5 etc.
- Connector: FC/UPC, FC/APC etc.
- Fiber Code
- Pigtail Type: 0=250μm, 1=900μm
- Attenuation range: 25=25dB, 30=30dB, 40=40dB
- Type: B=Bright, D=Dark
- Operating Wavelength: 1550=1550nm etc.