

MEMS Polarization Maintaining Variable Optical Attenuator (MEMS PMVOA)

Description

MEMS PMVOA 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

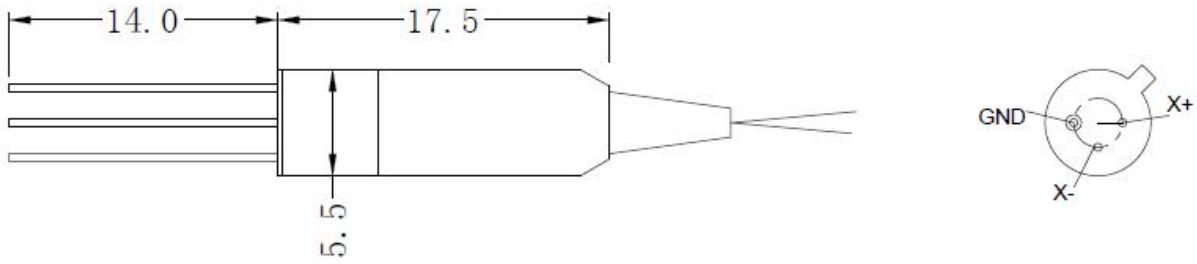
- Power management
- WDM System
- Test & Measurement
- Optical Instruments

Specifications

Parameter \ Type	Type	Unit	MEMS PMVOA	
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	
Extinction ratio		dB	≥18	
Return loss		dB	≥45	
Response Time		ms	≤5	
Handling power		mW	≤300	
Drive Voltage		V	≤8	
Working axis		/	Both axis working(Type B)	
Fiber type		/	PM fiber	
Operating temperature		°C	-5~+70	
Storage temperature		°C	-40~+85	
Dimensions		mm	Φ5.5× L17.5	

* IL is 0.3dB(1310~1550nm) or 0.5dB(1064nm) or 0.8dB(840nm) higher, RL is 5dB lower and ER is 2dB lower for connector added. The default connector key is aligned to slow axis.

Mechanical Dimension



Ordering Information

MEMS PMVOA-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.

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