Advanced Fiber Resources (HK), Ltd.

Polarization Maintaining MEMS Variable Optical Attenuator

Rev 11

Description

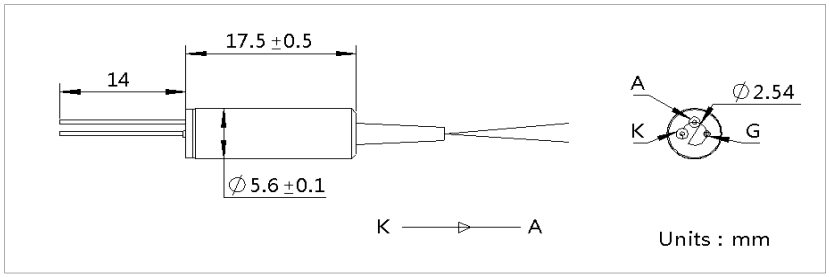
AFR's MEMS Variable Optical Attenuator is based on an electrostatic drived micro-electro-mechanical-system (MEMS) chip. The MEMS chip consists of a tilting mirror to change light coupling between input and output fibers. The components are characterized with low insertion loss, fast response and compact size. It is widely uesd in WDM networks, power control or gain variation in EDFA.

Specifications

Parameter	Unit	Value
Operating Wavelength Range	nm	1530 - 1570/1570 - 1610
Insertion Loss	dB	≤ 0.8
Attenuation Range	dB	> 30
Block State (Dark type, IL at power off)	dB	> 40
Polarization Dependence Loss @ 0 dB	dB	≤ 0.1
Polarization Dependence Loss @ 20 dB	dB	≤ 0.3
Min. Extinction Ratio	dB	18
Wavelength Dependence Loss @ 10 dB	dB	≤ 0.5
Wavelength Dependence Loss @ 20 dB	dB	≤ 1.0
Return Loss	dB	> 45
Response Time	ms	≤ 2
Max. Optical Power (Continuous Wave)	mW	300
Drive Voltage	V	≤ 8
Fiber Type	-	PM 1550 Fiber
Operating Temperature	℃	- 5 to + 70
Storage Temperature	℃	- 40 to + 85

[1]IL is 0.3 dB higher, RL is 5 dB lower, and ER is 2 dB lower for each connector added. Connector key is aligned to slow axis.

Package Dimensions



Ordering Information

PMMEMSVOA-①-②-③-④-⑤

①: Wavelength	②: VOA Type	③: Connector Type	④: Fiber Jacket	⑤: Fiber Length
C - C Band	D - Dark	1 - FC/UPC	B - 250 μm Bare Fiber	Q - 0.75 m
L - L Band	B - Bright	2 - FC/APC		S - Specify
		3 - SC/UPC		
		4 - SC/APC		
		N - None		
		S - Specify		