MEMS Variable Optical Attenuator

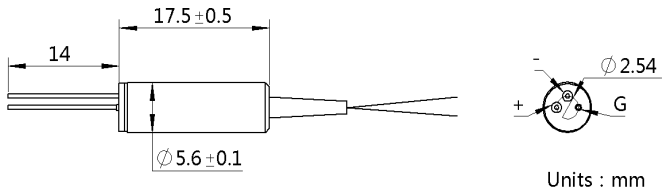
Rev 11B

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@ 0dB	dB	≤0.1
Polarization Dependence Loss@ 20dB	dB	≤0.3
Wavelength Dependence Loss@ 10dB	dB	≤0.5
Wavelength Dependence Loss@ 20dB	dB	≤1.0
Ripple(within 0.4nm window within 20dB)	dB	≤0.05
Polarization Mode Dispresion (PMD)	ps	≤0.1
Return Loss	dB	>45
Response Time	ms	≤2
Max. Optical Power (Continuous Wave)	mW	300
Drive Voltage	V	≤8
Fiber Type		SMF-28
Operating Temperature	℃	-5 to +70
Storage Temperature	℃	-40 to +85

Package Dimensions



Units : mm

Ordering Information

MEMSVOA-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	1 - 1.0 m
L - L band	B - Bright	2 - FC/APC	L - 900 μm loose tube	S - Specify
		3 - SC/UPC	S - Specify	
		4 - SC/APC		
		N - None		
		S - Specify		