

PM MEMS Variable Optical Attenuator (PMMSVOA)

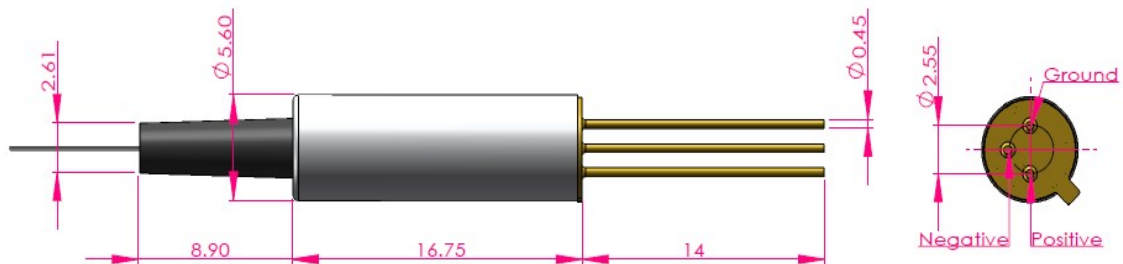
1. Features:

- Low insertion loss
- Low polarization dependent loss
- Compact design
- Low power consumption
- Insensitive to shock and vibration



2. Applications:

- Power control and equalization in multi channel systems
- Gain-tilt control in EDFAs
- Receiver protection
- Channel on/off switching



3. Compliance:

- Telcordia GR-1209-CORE
- Telcordia GR-1221-CORE
- RoHS

4. Specifications

Parameter	Unit	Specification	Note
Wavelength Range	nm	1530 - 1570	C band
		1570 - 1610	L band
Attenuation Type			Bright or Dark
Attenuation Range	dB	≥30	
Blocking State Attenuation	dB	≥40	Only Dark type
Insertion Loss	dB	≤0.7 (0.5 Typical)	Excluding Connectors
Attenuation Resolution		Continuous	
Wavelength Dependent Loss	dB	≤0.3	@<0dB Att.
		≤0.6	@<10dB Att.
		≤1.5	@<20dB Att.
Ripple	dB	≤0.05	Within 0.4nm window @20dB
Extinction Ratio(dB)	dB	≥18	@<0dB Att.
Temperature Dependent Loss	dB	≤0.7	@<0dB Att. compare with RT
		≤1.0	@<20dB Att. compare with RT
Return Loss	dB	≥45	
Response Time	ms	≤3	10-90% Optical Power
Optical Power Handling	mW	300	
Driving Voltage	VDC	6V or 15V	
Power Consumption	mW	≤2	
Operating Temperature	°C	0 to 70	
Storage Temperature Range	°C	-40 to 85	

*The specifications are w/o connector.

* For devices with connectors, 0.3dB higher for IL, 5dB lower for RL and 2dB lower for ER.

* For device with connector, key aligned to slow axis.

5. Product Ordering information:

PMMSVOA-	X	X-	XX-	X	XX-	X
PMMS=MEMS	Operating Wavelength	Attenuation Type	Drive Voltage	Fiber Type	Fiber Length	Connector Type
V=Variable	C=C Band	B=Bright	6=6V	0=250μm fiber	10=1.0m	0=None
O=Optical	L=L Band	D=Dark	15=15V	1=900μm fiber	15=1.5m	1=FC/UFC
A=Attenuator						2=FC/APC
						3=SC/UPC
						4=SC/APC
						5=LC/UPC
						6=LC/APC