

PM Variable Optical Attenuator (PMEVOA)

Descriptions

Polarity Maintenance VOA “PMVOA” is a specialized VOA product family in achieving laser attenuation while maintain-ing its polarity. It is widely used in many applications that polarity maintenance is critical, such as optical fiber sensing, optical instrumentation, etc. The PMVOA has been optimized over the years of production to achieve its unique perform-ance advantages unmatched in the industry.

Features

- ▶ Excellent Extinction Ratio “ER”
- ▶ Miniature design in a TO46 package
- ▶ Hermetically sealed
- ▶ Low insertion loss (IL)
- ▶ High attenuation range
- ▶ Low power consumption
- ▶ Fast response time
- ▶ High optical power handling
- ▶ Telcordia GR-1209 & GR-1221 compliant



Applications

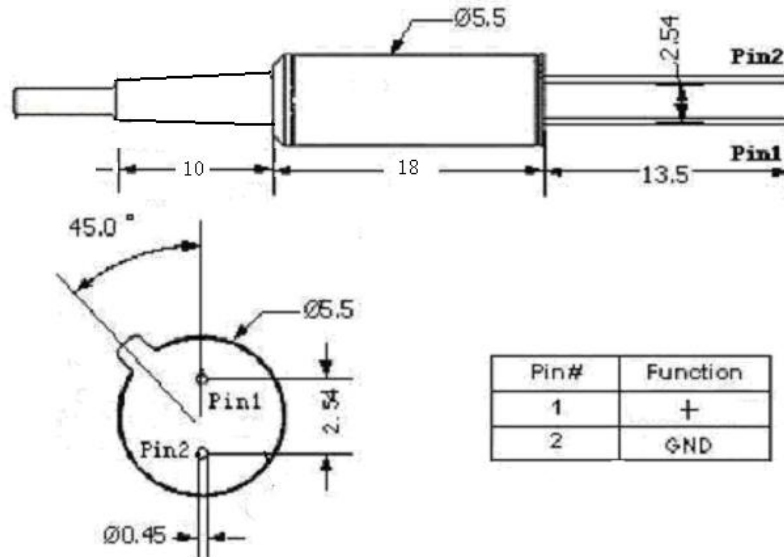
- ▶ Optical Fiber Sensing
- ▶ Instrumentation
- ▶ High-speed Optical Communication.
- ▶ Optical Coherence Tomography “OCT”

Specifications

Parameter	Unit	Specification	Remark
Operating Wavelength Range	nm	980 or 1064 or 1260~1650	
Attenuation Type		Open or Close, continuous	
Attenuation Range	dB	≥30	
Max Attenuation Range	dB	≥45	
Insertion loss	dB	≤0.7 (Type 0.5)	NO connector Loss
Wavelength related loss	dB	≤0.3	Test in 0dB
		≤1.5	Test in 20dB
ripple Loss	dB	≤0.05	0.4 nm bandwidth tested at 20dB
Polarization related loss	dB	≤0.1	Test in 0dB
		≤0.3	Test in 20dB
Temperature related loss	dB	≤0.2	Test comparison at 0dB
		≤1.0	Test comparison at 20dB
Return Loss	dB	≥55	
Extinction Ratio	dB	≥18	
PMD	ps	≤0.1	
Response time	ms	≤5 (3 典型)	Optical Power 10-90%

Optical Power	mW	300	
Driving Voltage	VDC	5 V	In 5V, typical is 40dB
Power Consumption	mW	≤2	
Operating Temperature	°C	-20 to 70	
Storage Temperature	°C	-40 to 85	

Dimension



Ordering Information

PMEVOA - A - B - C - D - E - F - G		
A	Wavelength	1550nm, 1064nm, 1030nm, 850nm, etc
B	Drive Voltage	5V, 6.5v, etc
C	Attenuator Range	20,30,45, etc
D	Tube Type	BF=Bare fiber,0.9=0.9mm Tight Buffer/Tubing, etc
E	Fiber Type	PM1550, PM980, PM850, Customer Request
F	Fiber length	005=0.5m; 010=1.0m 100=10m etc
G	Connector Type	N=None, FC/APC, SC/APC, LCAPC, MU/PC, ST/PC, D4, etc

For example: PMEVOA -1030—6.5V-30dB-BF-PM980-010-N