

MEMS Variable Optical Attenuator(EVOA)

Features

- ▶ Broad band
- ▶ High reliability
- ▶ Low insertion loss
- ▶ Low Power Consumption
- ▶ High Input Power



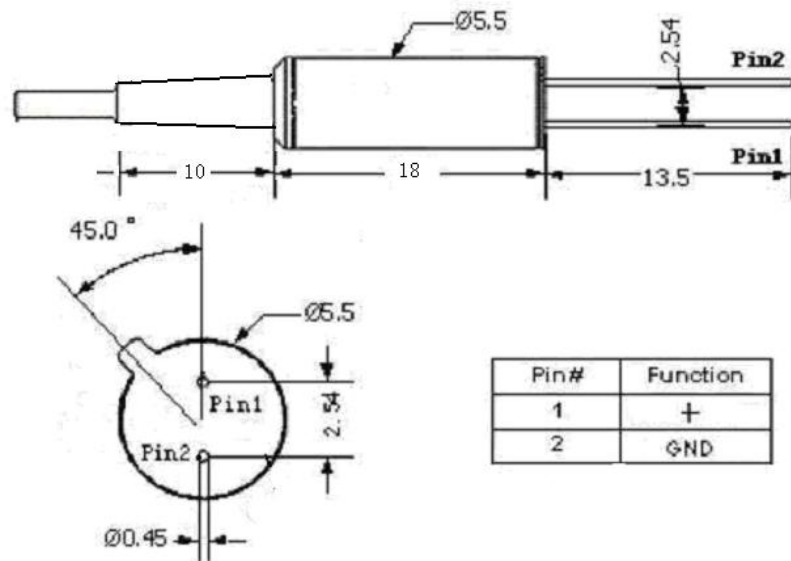
Applications

- ▶ Optical power control, equalization and regulate
- ▶ Receiver protection
- ▶ Instrumentation
- ▶ Channel on/off switching

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	Dark type
Insertion Loss	dB	≤ 0.7 (0.5 Typical)	Excluding Connectors
Attenuation Resolution		Continuous	
Wavelength Dependent Loss	dB	≤ 0.3	@<0dB Att.
		≤ 1.5	@<20dB Att.
Ripple	dB	≤ 0.05	Within 0.4nm window @20dB
Polarization Dependent Loss	dB	≤ 0.1	@<0dB Att.
		≤ 0.3	@<20dB Att.
Temperature Dependent Loss	dB	≤ 0.2	@<0dB Att. compare with RT
		≤ 1.0	@<20dB Att. compare with RT
Return Loss	dB	≥ 55	
PMD	ps	≤ 0.1	
Response Time	ms	≤ 2 (1 Typical)	10-90% Optical Power
Optical Power Handling	mW	300	
Driving Voltage	VDC	5.2V or 15V	@5.2 Att , 20 dB
Power Consumption	mW	≤ 2	
Operating Temperature	oC	0 to 70	
Storage Temperature Range	oC	-40 to 85	

Dimension



Ordering Information

EVOA - A - B - C - D - E - F - G		
A	Wavelength	1310nm, 1550nm, 1625nm, etc
B	Drive Voltage	5.2V, 15v, etc
C	Attenuator Range	15,20,30, etc
D	Tube Type	BF=Bare fiber,0.9=0.9mm Tight Buffer/Tubing, etc
E	Fiber Type	SMF-28e, 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: EVOA -1550—5.2V-15dB-0.9-SMF-010-FC/APC