# MEMS Variable Optical Attenuator

Product Description:

Based on MEMS (Micro Electrical Mechanics System), Dynamic Variable Optical Attenuator (DVOA) is an important reconfigurable component in all optical networks.DVOA can implement the remote control in all optical networks. The main applications includes: the preseted optical power equalization, channel transmission equalization, optical automation gain reconfiguration, protection of the optical receiver etc.Due to MEMS control chip and the unique optical design which we adopted in product design, our DVOAS are smaller, faster and lower cost, as well as more reliable and. stable. MEMS VOA has the high stable performance and the reliability, the reliability was defers to Telcordia the GR1073 reliability inspection standards, already passed Telcordia the GR1221 examination.

Features:

Broad band;
High reliability;
Low insertion loss;
Low Power Consumption;
High Input Power.
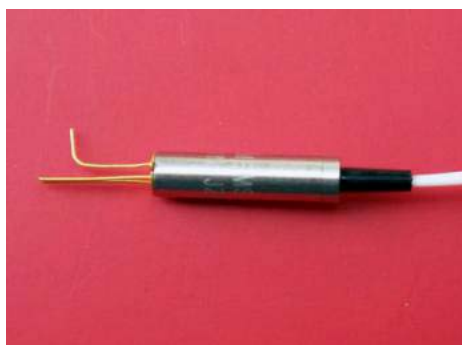
Applications:

Optical power control, equalization and regulate;
Receiver protection;
Instrumentation;
Channel on/off switching.

Technical parameters：

Parameter	Value	
Wavelength Range	1310±40 / 1550±40 nm	
Attenuation Range	0~30 dB	
Response Time	Type: 10ms	
Insertion Loss	Type: 0.6dB	
Precision	0.05 dB	
PDL (Polarization Dependent Loss)	0~20dB	typ:0.5dB max:1.2 dB
TDL (Temperature dependence loss)	0~20dB	Max:+/-2.0 dB
Spectral Flatness 1530~1570nm	10dB	typ:0.2dB Max:0.5dB
	20dB	typ:0.5dB Max:1.2dB

Return Loss(Backreflection)	typ: 45 dB
Repeatability	Max:0.2 dB
Optical power handling	Min:300mW
Operating Voltage	0~5 V DC
Power consumption	Max:0.5 mW
Operating Temperature	0℃ to +70℃
Storage Temperature	-40℃ to +85℃
Size (L x W x H)	φ5.5 x 25 mm

Ordering Information:

MVOA	VOAchannel	Fiber Type	Fiber Length	Connector
	11=1x1	S9=SMF 900um	1=1.0m	NE=None
	12=1x2	M5=MMF	2=2.0m	FA=FC/APC
	22=2x2	50/125/900um		FC=FC/PC
	XX=others	M6=MMF		SA=SC/APC
		62.5/125/900um		SC=SC/PC
		XX=others		ST=ST/PC
				LA=LC/APC
				LC=LC/PC
				XX=others

Setting size:

Pin#	Function
1	Drive voltage
2	cathode
3	GND