

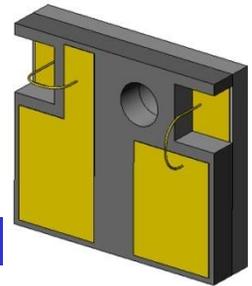
0.7mm Movement Free Space *et*MEMS™ Attenuator/Shutter

(US patents pending)

Product Description

The *et*MEMS™ series of FS VOA is based on a proprietary patent pending micro-electro-mechanical mechanism featuring exceptionally compact size with large shutter movement, simple construction, and easy direct drive. The *et*MEMS™ series of FS VOA is designed to completely block a collimated light beam over 700 μm in diameter and be operated in air without the need for hermetic seal and is fully compliant with the Telcordia 1209 and 1221 reliability standards. The device is ideally suited to be integrated into laser systems.

It is available in either normally-open or normally-closed configurations.



Performance Specifications

FS Series <i>et</i> MEMS™ VOA/Shutter	Min	Typical	Max	Unit
Attenuation Resolution		Continuous		
Aperture Size		750		μm
Response Time		20	60	ms
Optical Power Handling		500		mW
Driving Voltage ^[1]		4	5	V
Device Resistance		100 ^[2]		ohm
Power Consumption			210	mW
Operating Temperature	-5		75	°C
Storage Temperature	-40		85	°C
Reliability	Telcordia 1209 and 1221			
Package Dimension	See drawing below			mm

Notes:

- [1]. For full dynamic range.
- [2]. At voltage 4V.

Features

- Compact
- High Reliability
- Low IL, PDL, WDL & TDL
- Intrinsic tolerance to ESD

Applications

- Power Control
- Power Regulate
- Channel Balance
- Instrumentation

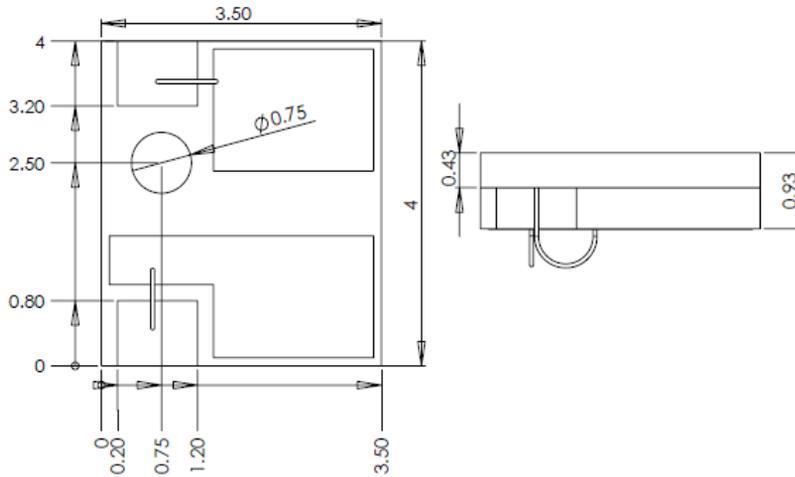


Revision: 10-06-15

Free Space *et*MEMS™ Attenuator/Shutter

Mechanical Footprint Dimensions (mm)

Standard Package (No Pin, bright configuration)



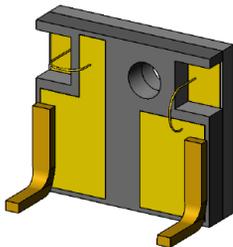
NOTES

- Electrode pads on front surface are for control voltage without polarity.
- Do not apply more than 6V.

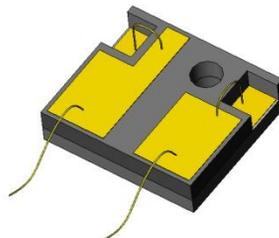
Ordering Information

FSVOA-	70	1	<input type="checkbox"/>	1	<input type="checkbox"/>	1	<input type="checkbox"/>	1
	Aperture Size		Off State	Shutter Surface	Chip Configuration		Electrical connection	
	700 μ m=70 Special=00		Bright=1 Dark=0	Gold coated=1	Standard =1 Special =0		No pin=0 L pins=1 Flying wires =2 Mounting shorts =3	

L-pins



Flying wires



Mounting shorts

