

0.5mm Movement Free Space *e*tMEMS™ Attenuator/Shutter (US patents pending)

Product Description

The *e*tMEMS™ series 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 *e*tMEMS™ series FS VOA is designed to completely block a collimated light beam over 500 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.



Features

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

Applications

- Power Control
- Power Regulate
- Channel Balance
- Instrumentation



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Performance Specifications

FS Series VOA/Shutter	Min	Typical	Max	Unit
Attenuation Resolution		Continuous		
Aperture Size		500		μm
Response Time		20	60	ms
Optical Power Handling		500		mW
Driving Voltage ^[1]		3.5	4.5	V
Device Resistance		70 ^[2]	100	ohm
Power Consumption			195	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 3.5V.

