

## **FVOA3000**

### *Ultra Fast Multimode Variable Optical Attenuator*

#### **Features**

- Ultra fast speed
- Multimode fiber
- Hermetically sealed MEMS chip
- Insensitive to shock and vibration
- ESD safe up to 2000V
- Low power consumption
- No epoxy in optical path



#### **Applications**

- Scintillation control in free space optical systems
- Power control in multimode systems
- Laser range finding
- Military / defense application

#### **General**

Designed for free space optical systems, the FVOA3000 rapidly compensates for atmospheric scintillation to stabilize power levels and protect receivers. With improved transmission, this MEMS based VOA allows for more reliable and longer link lengths.

## Performance Specifications

PARAMETER	SPECIFICATION
Wavelength Range <sup>1</sup>	C-Band / L-Band
Attenuation Range	15 dB
Attenuation w/o power	Bright
Attenuation Resolution	Continuous
Insertion Loss <sup>2</sup>	1.0 dB
Return Loss	45 dB
Response speed	50 $\mu$ s
Drive voltage <sup>3</sup>	10 Volts
Drive power	0.5 mW
Fiber type <sup>4</sup>	62.5 $\mu$ m multimode
Maximum optical power	500 mW
Operating temperature	-5° to 70° C
Package size	9.2 mm x 12.1 mm
Wear out	>100 billion cycles minimum
Reliability	Telcordia GR-1209, GR-1221
1. 1310nm, 1060nm and other wavelengths available 2. Valid over temperature and wavelength range, excluding connectors 3. Maximum AC voltage for full attenuation range 4. Other fiber types available	