

FVOA5000

Compact Variable Optical Attenuator

Features

- Small size
- Hermetically sealed MEMS chip
- Insensitive to shock and vibration
- ESD safe up to 2000V
- Bright or dark configuration
- No epoxy in optical path



Applications

- Power control and equalization in multi channel systems
- Receiver protection
- Channel on/off switching
- Mux/Demux modules
- OADM
- Transponder power control

General

The FVOA5000 is the industry's smallest variable optical attenuator. It is an ultra compact device that easily drops into any optical network application. With outstanding optical performance and uncompromising reliability, it is a true multi-source solution.

Performance Specifications

PARAMETER	SPECIFICATION
Wavelength Range	C-Band / L-Band
Attenuation Range	20 dB/ 40dB
Attenuation w/o power	Bright or dark
Attenuation Resolution	Continuous
Insertion Loss ¹	0.8 dB (0.4 dB typical)
Ripple within 0.4nm window ^{1, 2}	0.05 dB (0.02 dB typical)
Return Loss	45 dB
Polarization dependent loss ^{1, 2}	0.25 dB (0.14 dB typical)
Response speed	20 ms Bright version
Drive voltage ³	5 V / 6.5 V Bright version
Drive power	0.5 mW
Fiber type	SMF-28 or equivalent
Maximum optical power	500 mW
Operating temperature	-5° to 70° C
Package size	5.4 mm x 18 mm
Reliability	Telcordia GR-1209, GR-1221
<ol style="list-style-type: none"> 1. Valid over temperature and wavelength range, excluding connectors 2. For attenuations up to 15dB over temperature and wavelength range 3. Maximum DC voltage for full attenuation range 	