

FVOA5100

Compact Variable Optical Attenuator with Excellent Spectral Flatness

Features

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



Applications

- Amplifiers
- Receiver protection
- On/off switching
- OADM

General

The FVOA5100 is ideal for amplifier and broadband applications. With low spectral flatness and an ultra small hermetic package, this VOA delivers unparalleled optical performance with uncompromising reliability. It consumes less than 500 micro Watts of power. It is available in bright or dark configurations with either 5, 6.5 or 18Volts drive.

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)
Wavelength dependence of attenuation ^{1, 2}	0.6 dB (0.3 dB typical)
Return Loss	45 dB
Polarization dependent loss ^{1, 2}	0.2 dB (0.15 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
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	