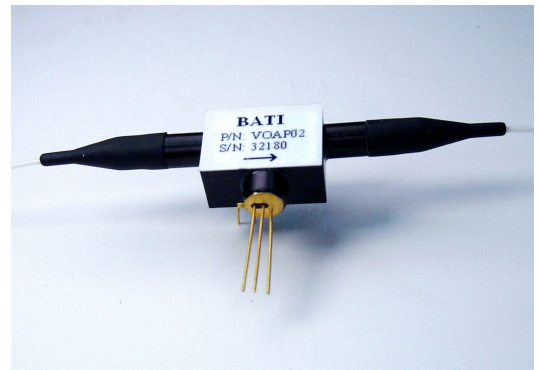


Eclipse™ Polarization Maintaining Variable Optical Attenuators

Polarization-preserving, High-speed Attenuation Control

For the first time, polarization-preserving, high-speed attenuation is available in a compact package. Boston Applied Technologies' Polarization Maintaining Variable Optical Attenuator (PM-VOA) maintains constant polarization output regardless of wavelength and level of attenuation. Based on the revolutionary OptoCeramic® electro-optic technology, the PM-VOA achieves a very high-speed performance (typical transition time of less than 30 microseconds) in a compact solid-state device. The PM-VOA includes an integral tap/output monitor and a photo detector. This eliminates the need for an external polarization-maintaining coupler and photo detector—substantially reducing cost and space requirements.



Features

- Precise, high-speed attenuation control
- Constant polarization output
- Excellent optical performance
- Integral optical monitor tap
- All solid-state construction in a compact package
- Superb temperature stability

Applications

- Optical networks using polarization-maintaining fiber
- Instrumentation

Key Optical Specifications

Attributes ^{1,2}	Performance
Wavelength Range ³	1530-1565 nm
Insertion Loss	1 dB
Dynamic Range	30 dB
Spectral Flatness	0.1 dB @ 15 dB attenuation ⁴
Extinction Ratio	20 dB
Tap Output	0.05 μ A/ μ W of output power
Input Power	< 500 mW
Return Loss	\geq 55 dB
Response Time (Full Range) ⁵	< 30 μ s
Attenuation Resolution	Continuous
Operating Temperature Range	0°C to 70°C
Storage Temperature Range	-40°C to 85°C
Dimensions (Approximately)	29 x 12 x 8 mm

Notes:

1. Unless otherwise specified, all measurements are at 25°C.
2. Meets or exceeds Telcordia GR1221 and GR1209 specifications.
3. Also operates in the L-Band with 0.2 dB additional insertion loss.
4. For single-wavelength applications.
5. Devices with less than 5 μ s are also available.

Contact Information

For more information about BATi's leadership in variable optical attenuation technology and other optical networking modules and components, visit our website at www.bostonati.com.

To obtain additional technical information or to place an order for this product, please contact us at:

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