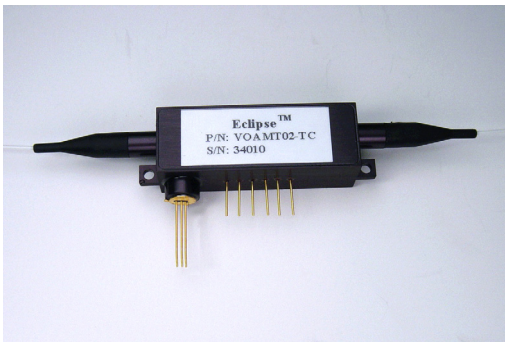
Eclipse™ Multimode Variable Optical Attenuator

High-Speed Attenuation Control

Boston Applied Technologies' Eclipse™ Multimode Variable Optical Attenuators (MM-VOAs) maintain a constant output optical power in the multimode fiber transmission line, regardless of the wavelength and the level of attenuation. Based on the revolutionary OptoCeramic® electro-optic technology, the MM-VOAs achieve very high speeds (with a typical transition time of less than a few microseconds) in a compact solid-state device. The MM-VOAs with integrated input tap or output tap (photo detector) are also available to eliminate the need of an external optical power detection component, substantially reducing the cost and space requirements.



Features

- Precise, high-speed attenuation control
- Multimode fiber with low mode dependent loss
- Excellent optical performance
- All solid-state construction in a compact package
- Superb temperature stability

Applications

- Optical power control in multimode optical system
- Instrumentation

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Key Optical Specifications

Attributes[1,2]	Performance
Wavelength Range[3]	1530-1565 nm[4]
Insertion Loss	1 dB
Mode Dependent Loss	0.2dB
Dynamic Range	20 dB
Input Power	< 500 mW
Return Loss	≥ 40 dB
Response Time (Full Range)[5]	< 5 μs
Attenuation Resolution[6]	Continuous
Operating Temperature Range	0°C to 70°C
Storage Temperature Range	-40°C to 85°C
Dimensions (Approximately)	34 x 11 x 9 mm

Notes:

1. Unless otherwise specified, all measurements are at 25°C.
2. Designed to 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. Design dependent. 1μs device is also available.
6. The 0~5V control signal, amplified by the driver electronics, controls the optical power/attenuation.

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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