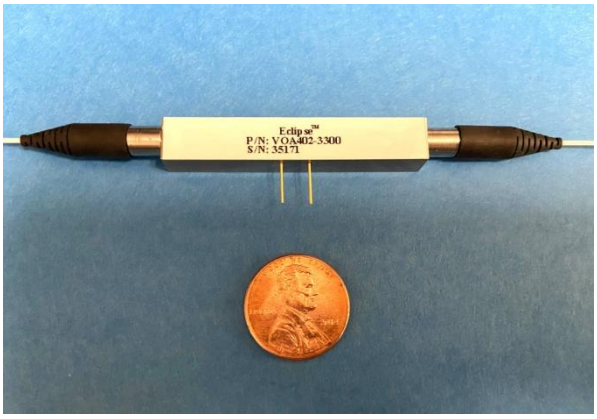
Eclipse™ High Speed Variable Optical Attenuator

Solid-State, High-Speed, High Precision Optical Power Control

Boston Applied Technologies' high speed variable optical attenuator (HVOA) has nano-second response speed and low insertion loss. It provides an ultimate solution for optical power stabilizing and limiting based on the high performance, high precision control circuits. HVOA can be set to maintain the output optical power at a constant level, countering the power fluctuations caused by PDL, channel add/drop, and other sources. The output power fluctuation level can be reduced to less than 0.01 dB. HVOA can also be used as an optical power limiter to protect the down streams. It can be offered either as a stand-alone optical power regulator (OPR) unit or as a module (as shown) for system integration.



Features

- Precise optical power control better than 0.01 dB*
- Fast response (<250 ns)
- Excellent optical performance
- All solid-state construction
- Superb temperature stability

Applications

- Optical power limiting
- Optical power stabilization
- Noise filtering
- Optical spark suppression
- Network protection

* With closed loop control

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Key Optical Specifications

Attributes[1]	Performance
Wavelength Range[2]	1310nm or 1550nm (S,C,L)
Insertion Loss[3]	< 1.0 dB
Dynamic Range	> 20 dB
Polarization Dependent Loss	<0.1 dB
Return Loss	≥ 55 dB
Response Time	< 100 ns
Repetition Rate	Up to 0.5MHz
Input Power Range	< 300 mW
Operating Temperature Range	0 to 70°C
Storage Temperature Range	-40 to 85°C
Dimensions (Approximately)	48X8X7 mm

Notes:

1. Unless otherwise specified, all measurements are at center wavelength and at 25°C
2. Also available in visible and mid-infrared wavelength
3. Measured without connectors. Each connector may introduce up to IL 0.3 dB higher, RL 5 dB lower, and ER 2 dB lower. Connector key is aligned to slow axis for PM version

For More Information

For more information about Boston Applied Technologies' leadership in optical power control technology and other electro-optical 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:

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