

Optical Power Regulator/Limiter

High-speed, High Precision Optical Power Control



Based on a high performance Eclipse™ variable optical attenuator (VOA) and high precision control circuits, Boston Applied Technologies' optical power regulator/limiter provides an ultimate solution for optical power stabilizing and limiting. The product 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 system can control the output power level to better than ± 0.01 dB. The products can also be used as an optical power limiter to protect the down streams. The complete unit can be either a stand-alone unit (as shown) or a module for system integration.

Features

- Precise optical power control better than ± 0.01 dB
- Fast response ($< 100 \mu s$)
- Excellent optical performance
- All solid-state construction
- Superb temperature stability

Applications

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

Key Optical Specifications

Attributes	Performance
Wavelength Range	1310nm/1550nm (S,C,L)
Insertion Loss	< 1 dB
Dynamic Range	> 25 dB ¹
Polarization Dependent Loss (PDL)	0.1 dB
Response Time	< 100 μ s
Input Power Range	< 2 Watts
Return Loss	$\geq$ 55 dB
Operating Temperature Range	0 to 70°C
Storage Temperature Range	-40 to 85°C

Notes:

1. Higher dynamic range available upon request.

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:

Phone: 1-781-935-2800

Fax: 1-781-935-2860

E-mail: sales@bostonati.com

Boston Applied Technologies, Incorporated, 150H New Boston Street, Woburn, MA 01801 USA. Any information contained herein shall legally bind BATI only if it is specifically incorporated into the terms and conditions of a sales agreement. This product information is subject to change without notice.