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 µs)
• 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

<table>
<thead>
<tr>
<th>Attributes</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wavelength Range</td>
<td>1310nm/1550nm (S,C,L)</td>
</tr>
<tr>
<td>Insertion Loss</td>
<td>&lt; 1 dB</td>
</tr>
<tr>
<td>Dynamic Range</td>
<td>&gt; 25 dB&lt;sup&gt;1&lt;/sup&gt;</td>
</tr>
<tr>
<td>Polarization Dependent Loss (PDL)</td>
<td>0.1 dB</td>
</tr>
<tr>
<td>Response Time</td>
<td>&lt; 100 µs</td>
</tr>
<tr>
<td>Input Power Range</td>
<td>&lt; 2 Watts</td>
</tr>
<tr>
<td>Return Loss</td>
<td>≥ 55 dB</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>0 to 70°C</td>
</tr>
<tr>
<td>Storage Temperature Range</td>
<td>-40 to 85°C</td>
</tr>
</tbody>
</table>

**Notes:**
1. Higher dynamic range available upon request.

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**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](http://www.bostonati.com).

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

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