Acrobat^{TM} Dynamic Polarization Rotators
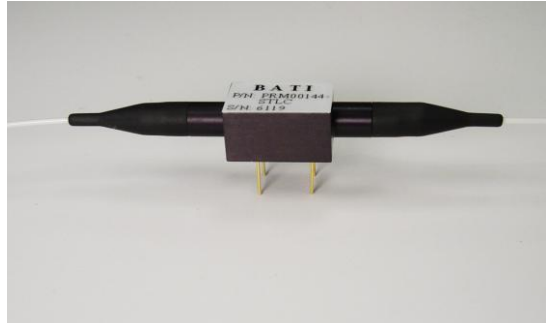
Solid-state, High-speed Polarization Rotators

Boston Applied Technologies' Acrobat^{TM} Polarization Rotator provides a continuous rotation of any polarized light with the applied control voltage. The device acts as a half-wave plate with a rotating axis. The OptoCeramic® technology enables high-speed, solid-state polarization rotation in a compact package. Both free space and fiber in-line versions are available, with wavelength ranges from near-infrared to mid-infrared.

Features

- High-speed polarization rotation control
- Excellent optical performance
- 180 degree polarization rotation
- All solid-state construction in a compact package

Applications

- Polarization switching
- Optical networks using polarization-maintaining fiber
- Polarization management
- Instrumentation such as OCT
- Variable digital group delay

BATi

Boston Applied Technologies, Inc.

Key Optical Specifications

Attributes[1,2]	Performance
Wavelength[3]	1310nm /1550nm (S,C,L)
Insertion Loss[4]	< 0.6 dB
Polarization Rotation	180 degree
Response Time	<30 μs
Input Power	$\leq$ 300 mW
Return Loss	$\geq$ 55 dB
Operating Temperature Range	0°C to 70°C
Storage Temperature Range	-40°C to 85°C
Dimensions (Approximate)	26 x 10 x 8.5 mm

Notes:

1. Unless otherwise specified, all measurements are at 25°C.
2. Meets or exceeds Telcordia GR1221 and GR1209 specifications.
3. 1310nm and other wavelength also available.
4. Measured without connectors. Each connector may add up to 0.2dB extra loss. Measured at 3 dB attenuation with a sinusoidal signal at 1 MHz.

Contact Information

For more information about BATi's' leadership in variable optical attenuation and modulation 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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