

Acrobat™ Dynamic Polarization Rotators

Solid-state, High-speed Polarization Rotators



Boston Applied Technologies' Acrobat™ Polarization Rotator provides a continuously 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 range from visible to mid-infrared.

Features

- Precise, 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
- Variable digital group delay

Key Optical Specifications

Attributes ^{1,2}	Performance
Wavelength Range ³	1310nm / 1550nm (S, C, L)
Insertion Loss	<1.0 dB
Polarization Rotation	180 degree
Response time	< 100µs
Input Power	< 300 mW
Return Loss	≥ 55 dB
Dimensions (Approximately)	26 x 10 x 9 mm
Operating Temperature Range	0°C to 70°C
Storage Temperature Range	-40°C to 85°C

Notes:

1. Unless otherwise specified, all measurements are at 25°C.
2. Meets or exceeds Telcordia GR1221 and GR1209 specifications.
3. Also available in visible and mid-infrared wavelength.

For More Information

For More information about Boston Applied Technologies' leadership in polarization 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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