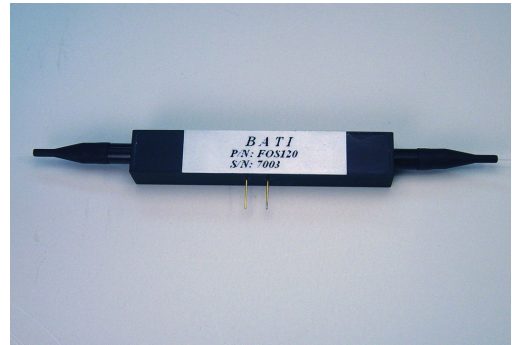


Nanona™ High Speed & Low Loss Optical Switch

Solid-state, High-speed Fiber-optic Switch

Boston Applied Technologies, Inc. (BATi)'s Nanona™ ultra-fast optical switch redirects the optical signal from one channel to another at speeds faster than 50ns. The switch utilizes the breakthrough OptoCeramic™ electro-optic material developed by BATi researchers for a variety of light-control applications. Combining the solid-state operation inside a free space propagation architecture which eliminates the moving parts and organic materials, the switch enables ultra-fast, reliable switching with low insertion loss and simple driver.



Features

- Excellent optical performance
- High-speed operation
- High-reliability mechanism
- All solid-state construction in a compact package

Applications

- Optical signal switching independent from data rate and data protocol
- Network protection, restoration and performance monitoring
- Instrumentation
- Variable digital group delay
- Medical, aerospace, and other manufacturing and industrial industries

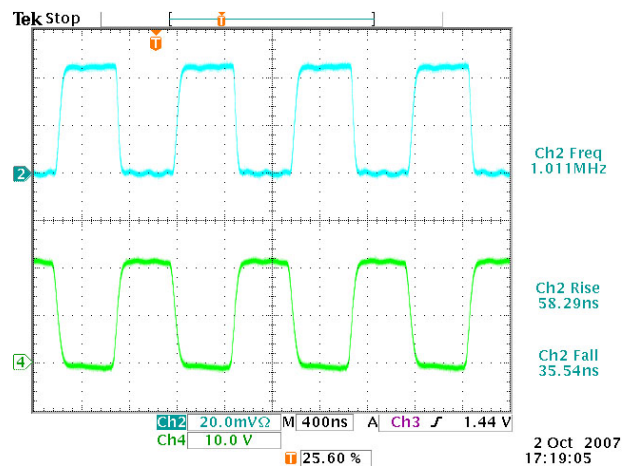
Key Optical Specifications

Attributes ^{1,2}	Performance
Wavelength Range ³	1310nm / 1550nm (S, C, L)
Insertion Loss	< 1 dB
Polarization Dependent Loss	< 0.2 dB
Cross talk	> 20 dB
Polarization Mode Dispersion	< 0.1 ps
Response time	< 60 ns (5 μ s) ⁴
Repetition Rate	Up to 1 MHz
Input Power	< 500 mW
Return Loss	\geq 55 dB
Dimensions (Approximately)	63 x 11 x 9 mm (43x11x9mm) ⁴
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.
4. Compact package with 5 μ s speed.

Speed Test Data



Contact 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 at:

Phone: 1-781-935-2800
Fax: 1-781-935-2860
E-mail: sales@bostonati.com