

# SM 1x1 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 60ns. The switch utilizes the breakthrough OptoCeramic™ technology and 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
- Meets or exceeds Telcordia GR1221 and GR1209 specifications

### **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



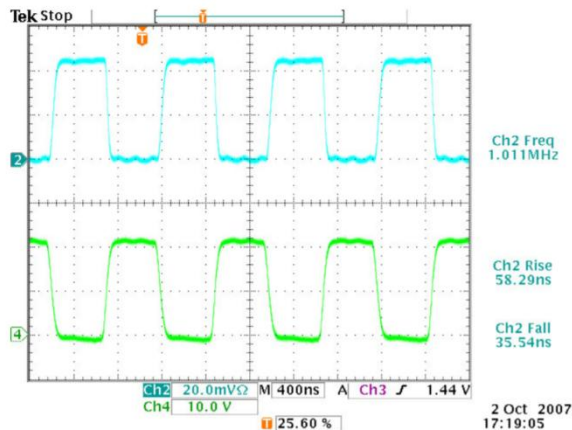
## Key Optical Specifications

Attributes <sup>1</sup>	Performance
Wavelength Range <sup>2</sup>	1310nm / 1550nm (S,C,L)
Insertion Loss <sup>3</sup>	< 1.0 dB
On-off Ratio	> 20 dB
Polarization Dependent Loss	<0.2 dB
Polarization Mode Dispersion	< 0.1 ps
Response Time	< 60 ns
Repetition Rate	Up to 1MHz
Input Power Range	< 300 mW
Return Loss	≥ 55 dB
Dimensions (Approximately)	55 x 8x 7mm
Operating Temperature Range	0 to 70°C
Storage Temperature Range	-40 to 85°C

### Notes:

1. Unless otherwise specified, all measurements are at center wavelength and at 25°C
2. Also available in visible and mid-infrared wavelength
3. Measured without connectors. Each connector may add up to 0.2dB extra loss
4. PM version available

## Speed Test Data



### 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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