

# Nanona™ High Speed & Low Loss Optical Switch, 1550 (1310) nm

## *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 time frame shorter 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

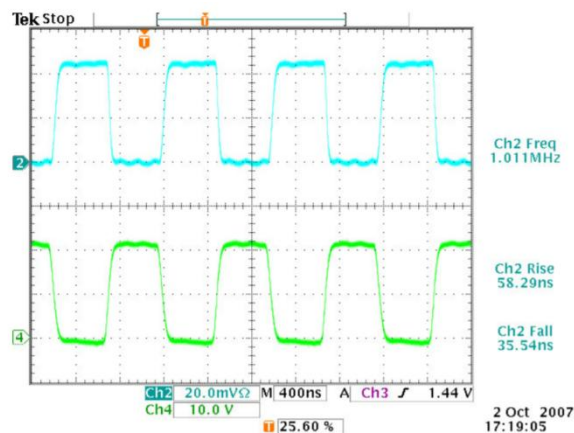
## FOS2200(01)-3300 Key Optical Specifications

Attributes <sup>1</sup>	Performance
Wavelength Range <sup>2</sup>	1310 or 1550±30nm
Insertion Loss <sup>3</sup>	<1.5dB, 1.0 dB typical
Cross Talk	> 18 dB, 20 dB typical
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	> 45 dB, 50 dB typical
Dimensions (Approximately) <sup>4</sup>	81 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. Up to 0.3dB extra insertion loss, and RL 5 dB lower for each connector added.
4. Exclude boots.

## 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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