

NanoSpeedTM Broadband 1x2 Fiberoptic Switch

(patent pending)

Product Description

The NS broadband Series 1x2 solid-state fiber optic switch connects optical channels by redirecting an incoming optical signal into a selected output optical fiber. This is achieved using patent pending non-mechanical configurations with solid-state all-crystal designs, which eliminates the need for mechanical movement and organic materials. The configuration eliminates waveplates for a wide wavelength operation. The NS fiberoptic switch is designed to meet the most demanding switching requirements of ultra-high reliability, fast response time, continuous switching and bidirectional operation. The device is bidirectional.

Agiltron's PCB driver listed in the web is recommended to operate this device, featuring high efficiency and low cost with 12V DC power and TTL control signal.

NS Broadband 1x	Min	Typical	Max	Unit	
Central wavelength		760		1650	nm
Insertion Loss [1]	1260~1650nm		0.8	1.2	dB
	960~1200nm		1.0	1.5	dB
	760~960nm		1.0	1.6	
Cross Talk		20	25		dB
Polarization Dependent Loss			0.15	0.35	dB
IL Temperature		0.25	0.5	dB	
Polarization Mode Dispersion			5	6	ps
Return Loss		45	50		dB
Response Time (Rise, Fall)	Fall) 300		ns	
Repetition Rate ^[2]		DC	5		kHz
Operating Temperature		-5		70	°C
Optical Power Handling			300		mW
Storage Tempera	-40		85	°C	
Package Dimension		70.5x18x6.5			mm

Performance Specifications

[1] Excluding connectors.

[2] Standard driver. High repetition rate (up to 500 KHz) is available with special circuit, please call us.

[3] Defined at 1550nm. For the shorter wavelength, the handling power may be reduced; please call us for more information.

15 Presidential Road, Woburn, MA 01801 Tel: (781) 9351200 Fax: (781) 935-2040

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Features

- Solid-State
- High speed
- Ultra-high reliability
- Low insertion loss
- Compact

Applications

- Optical blocking
- Configurable operation
- Instrumentation

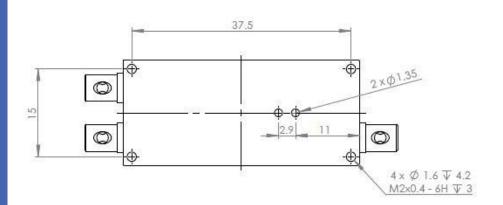


Revision: 07-18-16

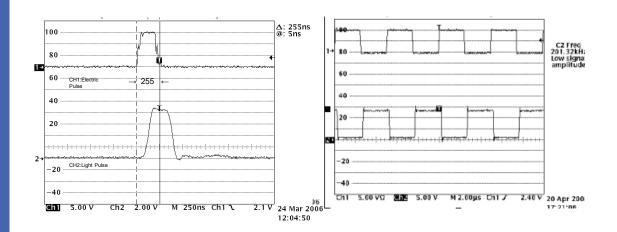


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Mechanical Dimensions (mm)



Speed and Repetition Measurement



RoHS

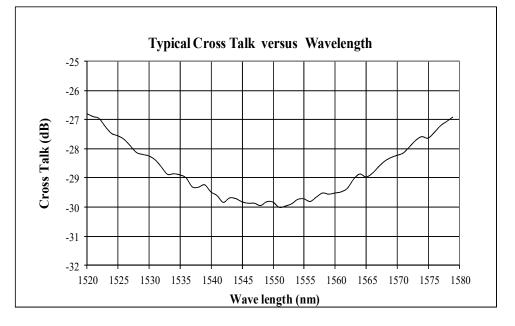
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Bandwidth Measurement at specified wavelength



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NSBW-	1 2		1	2				
	Туре	Wavelength	Configuration	Package	Fiber Type		Fiber Length	Connector
	1x2=12	1260~1650=1 960~1200=2 760~960=3			SMF-28=1 H11060=2 H1780=3 Special=0	Bare fiber=1 900um loose tube=3 Special=0	0.25m=1 0.5m=2 1.0 m=3 Special=0	None=1 FC/PC=2 FC/APC=3 SC/PC=4 SC/APC=5 ST/PC=6 LC/PC=7 LC/APC=8 Special=0



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