

NanoSpeed™ High Power 1x2 Solid-State Fiberoptic Switch (Bidirectional)

(Protected by U.S. patent 7,403,677B1 and pending patents)

Product Description

The NS 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 NS fiber optic switch is designed to meet the most demanding switching requirements of ultra-high reliability, fast response time, and continuous switching operation.

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.



Performance Specifications

NH Series 1x2 Switch	Min	Typical	Max	Unit
Central Wavelength	780		2000	nm
Insertion Loss ^[1]	1260~1650nm	0.6	1.0	dB
	960~1260nm	0.8	1.3	dB
Cross Talk	20	25		dB
Polarization Dependent Loss		0.15	0.35	dB
IL Temperature Dependency		0.25	0.5	dB
Polarization Mode Dispersion		0.1	0.3	ps
Return Loss	45	50		dB
Response Time (Rise, Fall)			300	ns
Repetition Rate ^[2]	DC	5		kHz
Operating Temperature	-5		70	°C
Optical Power Handling ^[3]			5	W
Storage Temperature	-40		85	°C
Package Dimension		65.5x23.5x6.5		mm

[1] Measured without connectors

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

[3] Defined at 1310nm and 1550nm and CW operation, for pulse operation call

Features

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

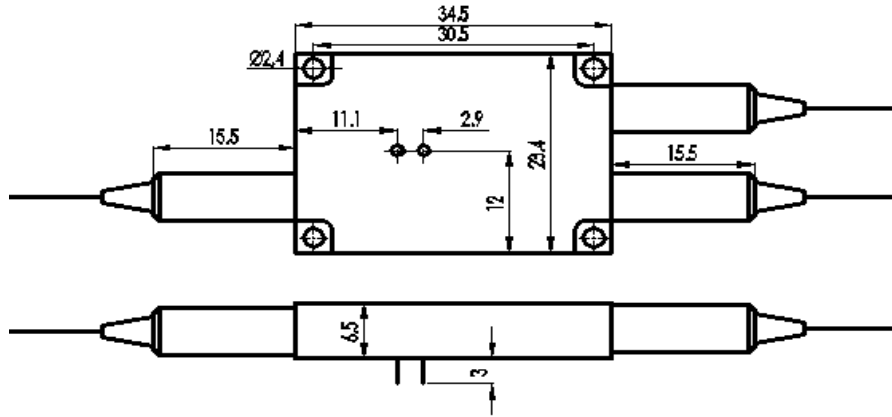
Applications

- Optical blocking
- Configurable operation
- Instrumentation

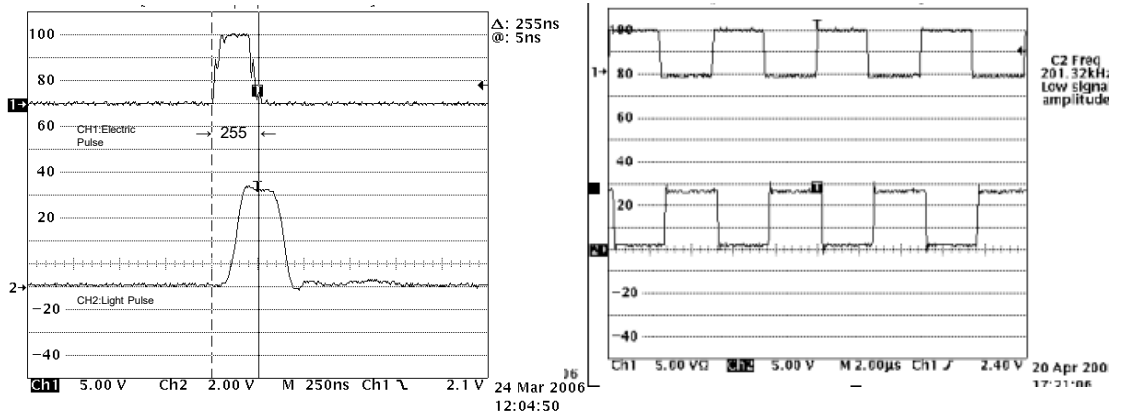


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Mechanical Dimensions (mm)

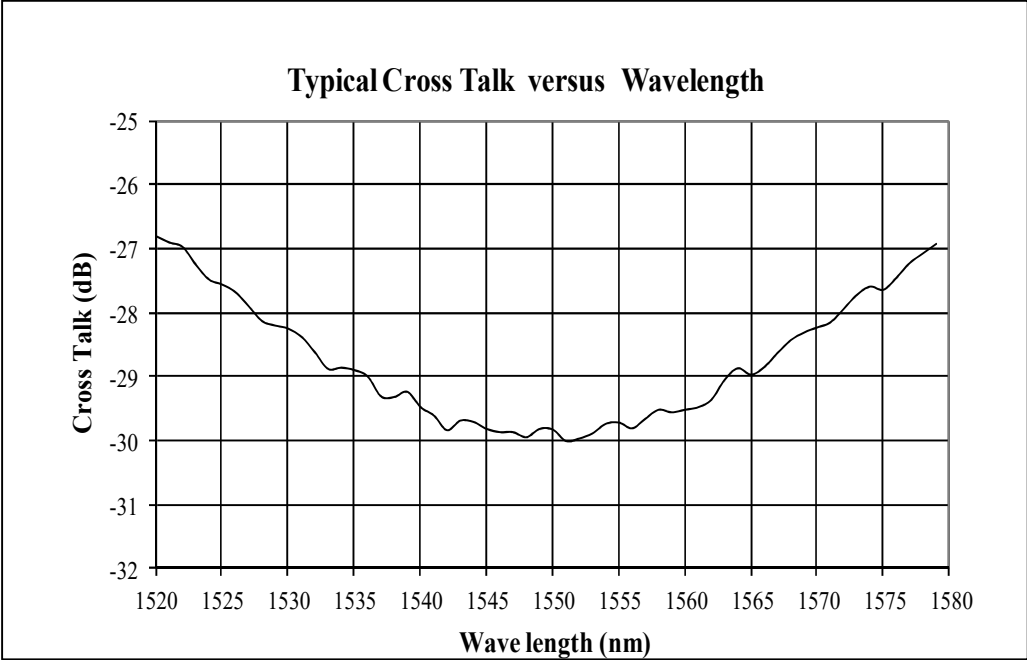


Speed and Repetition Measurement



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Bandwidth Measurement



Ordering Information

NHSW-	1 2	<input type="checkbox"/>	1	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1*
Type	Wavelength	Configuration	Package	Fiber Type	Fiber Length	Connector		
	1060=1 L Band=2 1310=3 1550=5 980=9			SMF-28=1 HI-1060=2 Special=0	Bare fiber=1 900um loose tube=3 Special=0	0.25m = 1 0.5m = 2 1.0 m = 3 Special =0	No connector = 1	

* Agiltron provide high power connector, please call.