

NanoSpeedTM High Power 1x2 Fiber Optical Switch

(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. It is intrinsically bidirectional and variable coupler behavior between the two ports. 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	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
Polarization Extir	19	22	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 Tempera	-40		85	°C	
Package Dimension			mm		
[1] Measured without connectors					

- [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
- [4] Pm fiber only

Features

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

Applications

- Optical blocking
- Configurable operation
- Instrumentation

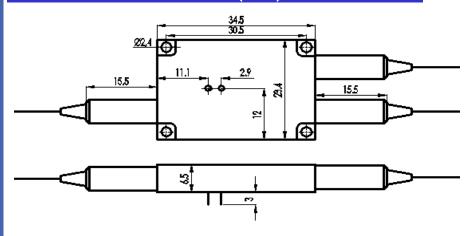


07-18-20

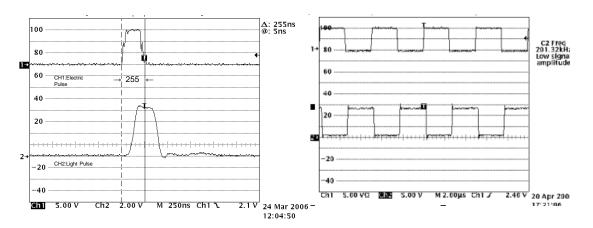


NanoSpeedTM High Power 1x2 Solid-State Fiberoptic Switch

Mechanical Dimensions (mm)



Speed and Repetition Measurement

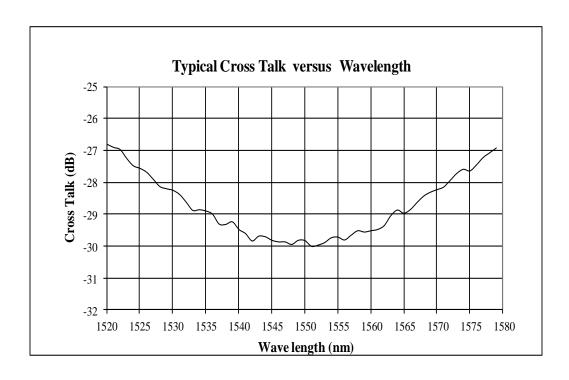


www.agiltron.com



NanoSpeedTM High Power 1x2 Solid-State Fiberoptic Switch

Bandwidth Measurement



Ordering Information

	1 2		1	1				1*
	Туре	Wavelength	Configuration	Package	Fiber Type		Fiber Length	Connector
NHSW=2W NHHW=5W		1060=1 L Band=2 1310=3 1550=5 980=9			PM1550 =5	Bare fiber=1 900um tube=3 Special=0		No connector = 1 FC-PC = 2

^{*} Agiltron provide high power connector, please call.