

NanoSpeedTM High Power 1x1 Fiberoptic Switch/On-Off Shutter

(Bidirectional)

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

Product Description

The NS high power 1x1 fiber optic switch/on-off shutter is a fast shutter device featuring very low loss, fast response, and high optical power handling. This is achieved using patented 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 ultrahigh reliability, fast response time, and continuous switching operation. The switch 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.

Performance Specifications

NH 1x1 Switch/	Min	Typical	Max	Unit	
Central Wavelength		980		2000	nm
Insertion Loss ^[1]	1260~1650nm		0.6	1.0	dB
	960~1260nm		0.8	1.3	dB
Isolation	20	25		dB	
Polarization Dep		0.15	0.35	dB	
IL Temperature		0.25	0.5	dB	
Polarization Mod		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 Dimensi		mm			

[1] Excluding connectors.

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

[3] Defined at 1310/1550nm. For the shorter wavelength, the handling power may be reduced.

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

Features

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

Applications

- Optical blocking
- Configurable operation
- Instrumentation

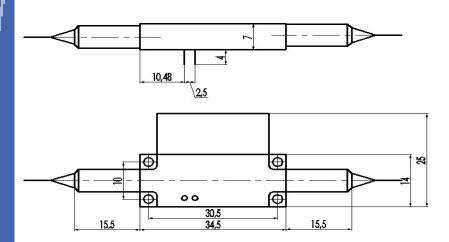


Revised on 07-18-16

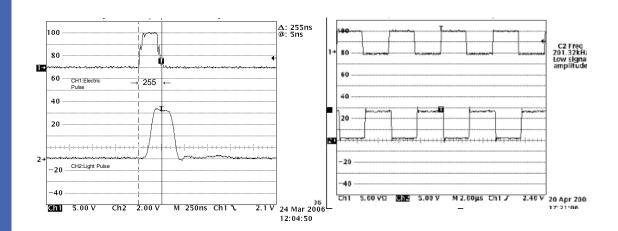


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Mechanical Dimensions (mm)



Speed and Repetition Measurement



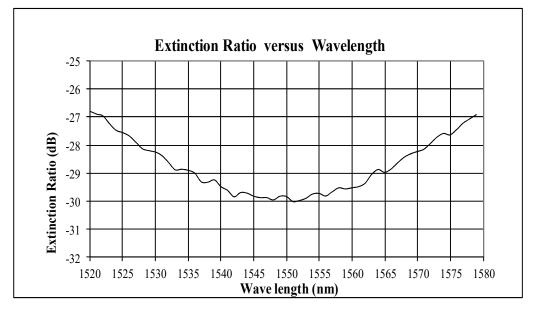
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Bandwidth Measurement



Ordering Information

NHSW-	11		1	1				1*
	Туре	Wavelength	Configuration		Fiber Type		Fiber Length	Connector
	1x1=11	1060=1 L Band=2 1310=3 1550=5 980=9 Special = 0			SMF-28=1 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.

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