

Nano SpeedTM High Power 1x1 PM Fiberoptic Switch / On-Off Modulator (Bidirectional)

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

Product Description

The NS high power PM 1x1 fiber optic switch/on-off modulator 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 high power fiberoptic PM switch is designed to meet the most demanding switching requirements of ultra-high reliability, fast response time, and continuous switching operation. The switch is bidirectional.

The device can be driven by a cost effective circuit with 12 V input voltage and a 0-5 V control signal.

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Performance Specifications

NH 1x1 PM Switch/Modulator	Min	Typical	Max	Unit
Operation Wavelength	780		2000	nm
Insertion Loss ¹		0.6	1.0	dB
IL Temperature Dependency		0.25	0.5	dB
Isolation	20	25		dB
Extinction ratio	18	25	30	dB
Return Loss	45	50		dB
Response Time (Rise, Fall)			300	ns
Repetition Rate**	DC	5		KHz
Operating Temperature	-5		70	О°
Optical Power Handling			5***	W
Storage Temperature	-40		85	О°
Fiber Type	Panda PM fiber			
Package Dimension	65.5x25x7			mm
Driver kit is recommended				

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** Standard driver. High repetition rate (up to 500 KHz) is available with special circuit.

*** Continuous operation, for pulse operation call.

1. Excluding connectors.

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

Features

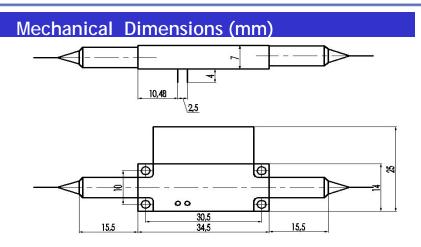
- Solid-State high speed
- Ultra-high reliability
- Low insertion loss
- Compact size
- Low cost
- Simple driver
- Low power consumption

Applications

- Optical blocking
- Light path re-directing
- Instrumentation



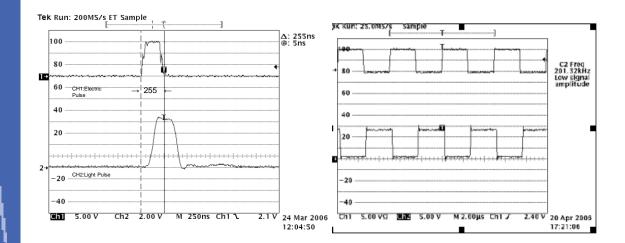
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Speed and Repetition Measurement

Revision: 060-14

07-27-13



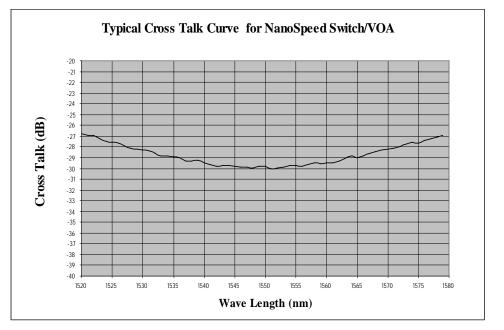
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www.agiltron.com



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Bandwidth Measurement



Ordering Information NHSW-1* 1 1 Wavelength Configuration Package Fiber Type Fiber Length Connector Туре 1X1=11 1060=1 Panda PM fiber 400=4 Bare fiber =1 0.25m=1 L Band=2 Panda PM fiber 250=5 900um loose 0.5m=2 1.0 m=3 1310=3 Special=0 tube=3 1410=4 Special=0 Special=0 1550=5 650=6 780=7 850=8 Special=0

* Agiltron provide high power connector, please call.

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