

Nano Speed™ 2X2 Solid-State Fiber-optic Switch

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

Product Description

The NS Series 2x2 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 design, which eliminates the need for mechanical movement and organic materials. The NS fiberoptic switch is designed to meet the most demanding switching requirements of ultra-high reliability, fast response time, and continuous switching operation.

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



Performance Specifications

NS Series 2x2 Switch	Min	Typical	Max	Unit
Operation Wavelength	400		2005	nm
Insertion Loss ¹	-	0.6	1.3	dB
Cross Talk	20	25	35	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	42	50	60	dB
Response Time (Rise, Fall)			300	ns
Repetition Rate	DC	5	300**	KHz
Operating Temperature	-5		70	°C
Optical Power Handling		300	5000***	mW
Storage Temperature	-40		85	°C
Package Dimension		77.1x8.5x8.4		mm

* Driver kit is recommended

** Special circuit

*** Special order

1. Excluding connectors.

Features

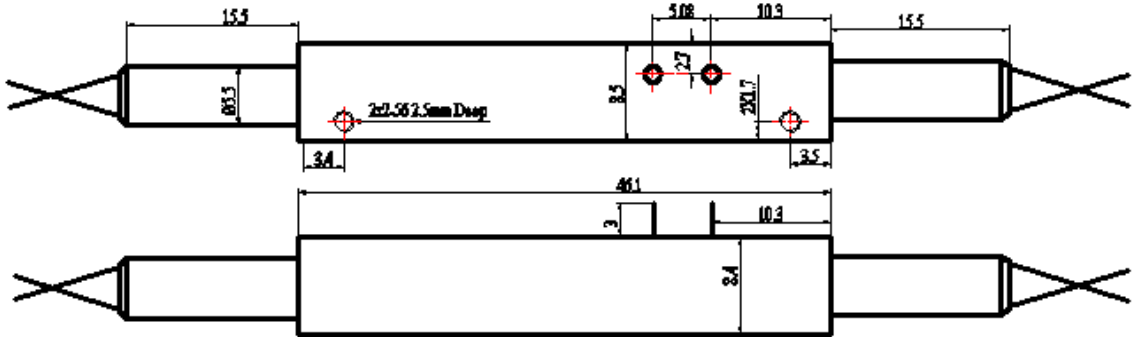
- Solid-State high speed
- Ultra-high reliability
- Low insertion loss
- Compact size
- Low cost
- Low power consumption
- Simple driver

Applications

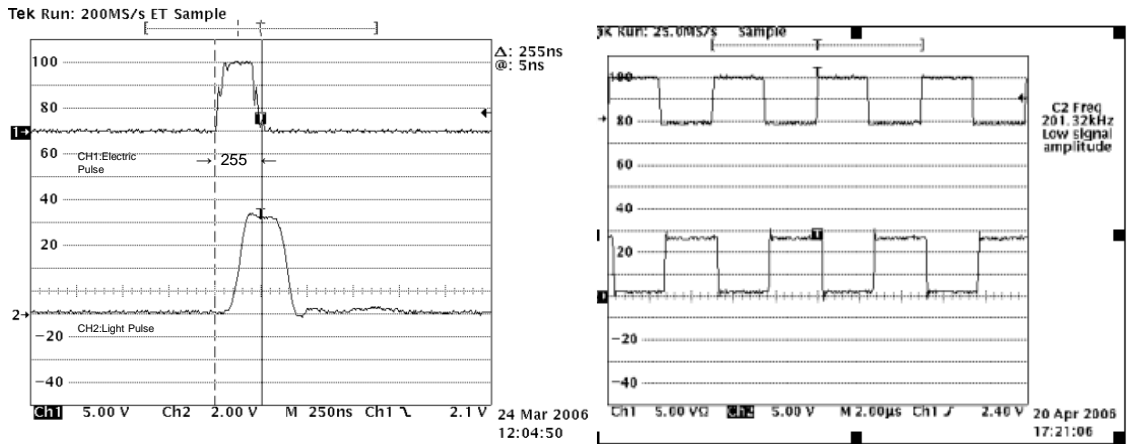
- Optical blocking
- Configurable operation
- Instrumentation

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Device Image and Dimensions (Unit:mm)

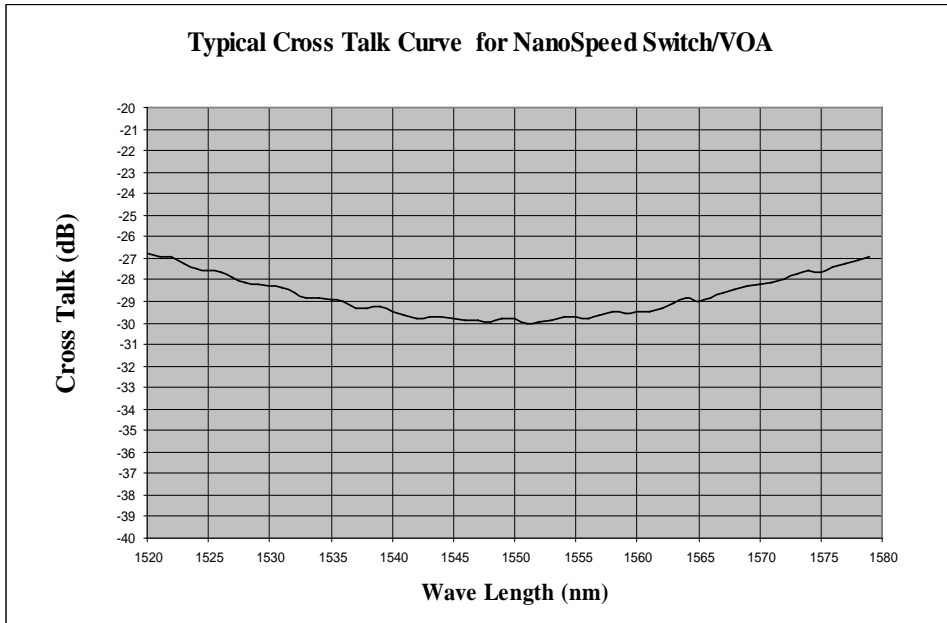


Speed and Repetition Measurement



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Bandwidth Measurement



Ordering Information

NSSW-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	1	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type	Wavelength	Configuration	Package	Fiber Type	Fiber Length	Connector			
2x2=22	1060=1 L Band=2 1310=3 1410=4 1550=5 650=6 780=7 850=8 Special=0			SMF-28=1 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=7 Duplex LC=8 Special=0			