

NanoSpeed™ 1x2 Solid-State Variable Fiberoptic Splitter

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

Product Description

The NS 1x2 Solid-State Variable Fiber Optic Splitter splits an incoming optical signal among two output optical fibers with an electrically variable power ratio. This is achieved using a patent pending non-mechanical configuration. When the electrical control signal is removed, the splitter latches to a pre-determined ratio with a standard version of 100:0. The device is bidirectional, transmitting light in both direction simultaneously. The all-solid-state crystal design eliminates the need for mechanical movement and organic materials. The NS Fiber Optic Splitter is designed to meet the most demanding switching requirements of ultra-high reliability, fast response time, and continuous operation.



Performance Specifications

NS 1x2 Splitter		Min	Typical	Max	Unit
Operation Wavelength		400		1800	nm
Insertion Loss ¹		0.4	0.6	1	dB
Cross Talk		20	25	35	dB
Splitting Variation	Output 1	100~50			%
	Output 2	0~50			%
	Type	Continuous			
Response Time (Rise, Fall)				300	ns
Repetition Rate		DC	5	300**	KHz
Polarization Dependent Loss			0.1	0.35	dB
IL Temperature Dependency			0.25	0.5	dB
Polarization Mode Dispersion			0.1	0.2	ps
Return Loss		45	50	60	dB
Operating Temperature		-5		70	°C
Optical Power Handling			300	5000***	mW
Storage Temperature		-40		85	°C
Package Dimension		65.8x8.5x8.4			mm

* Driver kit is recommended

** Special circuit

*** Special order

1. Excluding connectors.

Features

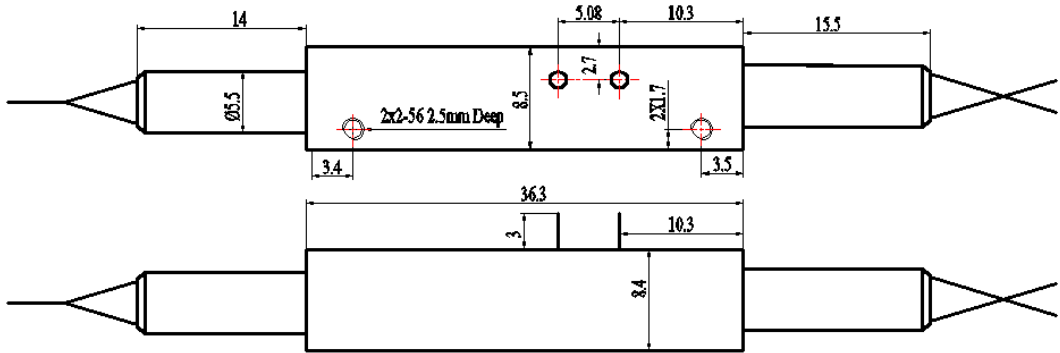
- Solid-State High Speed
- Ultra-High Reliability
- Low Insertion Loss
- Compact
- Low Cost

Applications

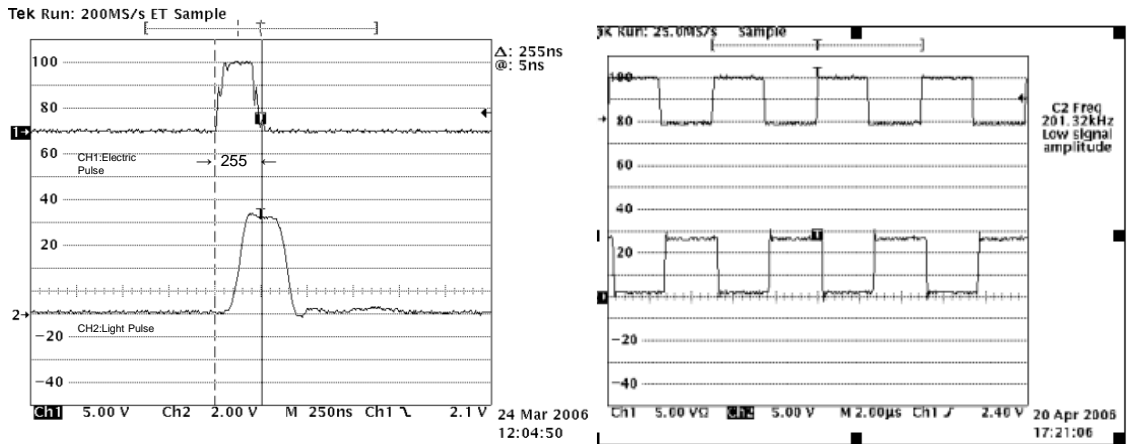
- Optical Channel Blocking
- System Monitoring
- Instrumentation

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Mechanical Dimensions (mm)

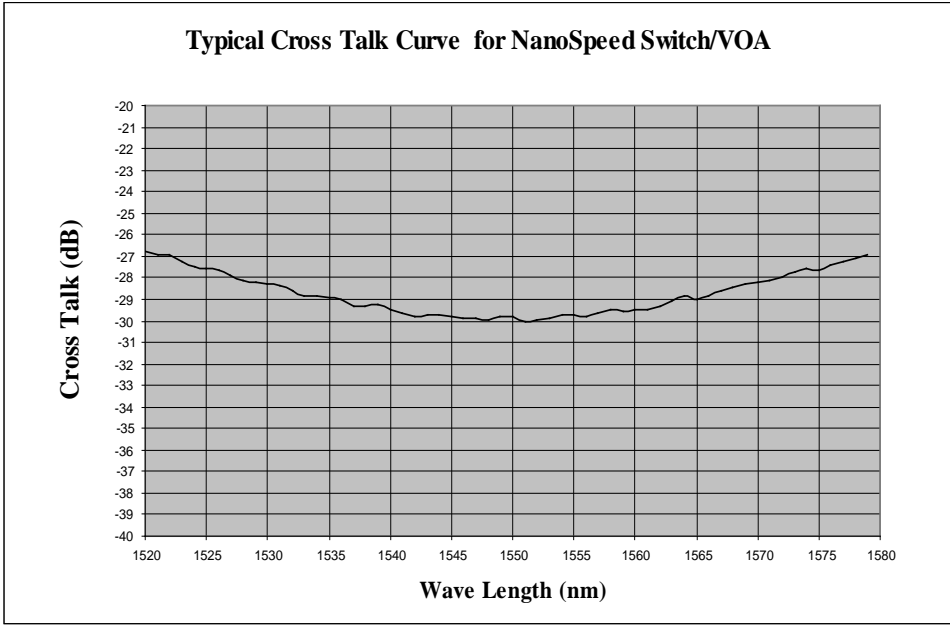


Speed and Repetition Measurement



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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	
	Splitter=30 Special=00	1060=1 L Band=2 1310=3 1410=4 1550=5 650=6 780=7 850=8 Special=0			SMF-2 =1 Special=0	Bare fiber=1 900um loose tube=3 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 Special=0	