

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.

Features

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

Performance Specifications

NS 1x2 Splitter		Min	Typical	Max	Unit
Central Wavelength		780		2000	nm
Insertion Loss ^[1]	1260~1650nm		0.6	1	dB
	900~1260nm		0.8	1.3	dB
	760~900nm		1	1.5	dB
Cross Talk at 100% splitter		20	25	35	dB
Splitting Variation	Output 1	100~0			%
	Output 2	0~100			%
	Type	Continuous			
Response Time (Rise, Fall)				300	Ns
Repetition Rate ^[2]		DC	5		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 ^[3]			300		mW
Storage Temperature		-40		85	°C
Package Dimension			65.8x8.5x8.4		mm

[1] Excluding connectors.

[2] Standard driver. High repetition rate (up to 100 KHz) is available with special circuit, please call us.

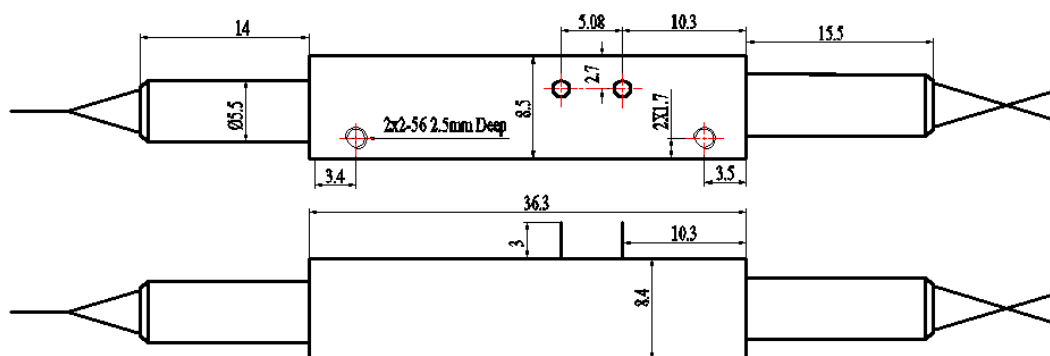
[3] Defined at 1310/1550nm. For the shorter wavelength, the handling power may be reduced.

Applications

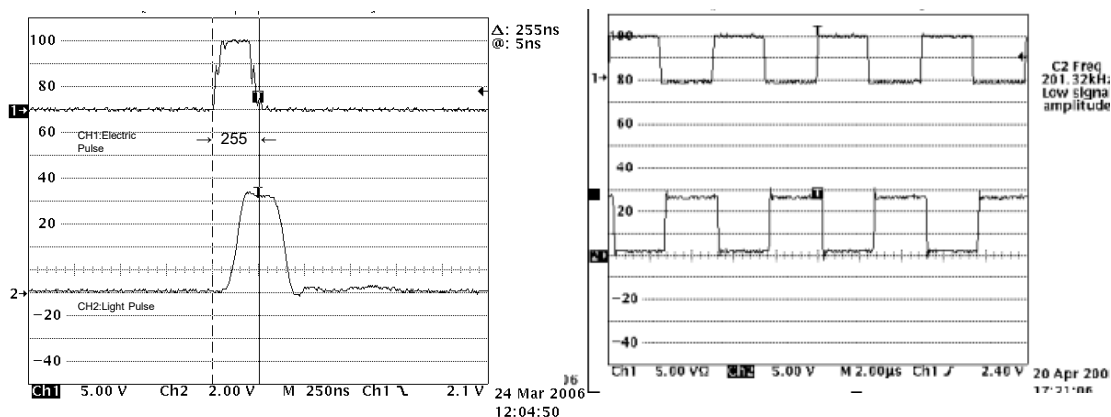
- Optical Channel Blocking
- System Monitoring
- Instrumentation

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Mechanical Dimensions (mm)

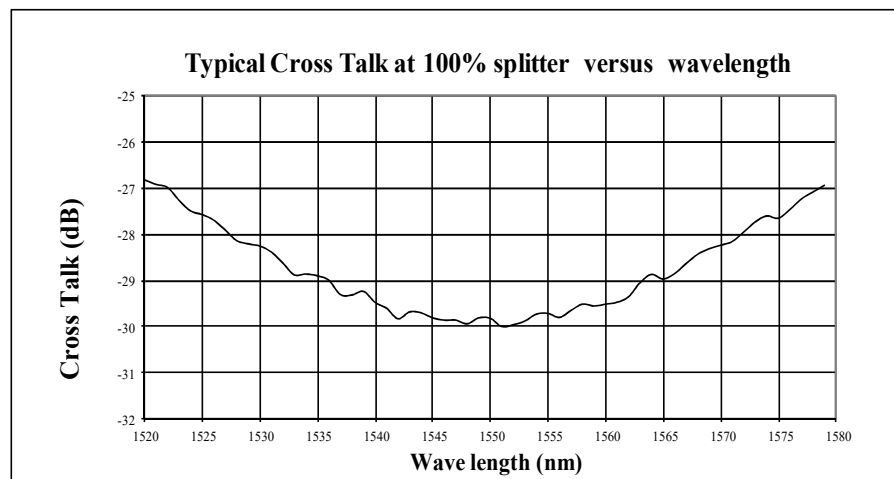


Speed and Repetition Measurement



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Bandwidth Measurement



Ordering Information

NSSW-	3 0	<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	1060=1 L Band=2 1310=3 1550=5 780=7 850=8 980=9			SMF28e=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/PC=7 LC Duplex=8 LC/APC=9 Special=0