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PHOTONWARES

NanoSpeed™ High Power 1x2 Variable Fiberoptic Splitter

(Protected by U.S. patents 7,403,677B1; 6,757,101B2; and pending patents)

Features

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

Applications

- Optical Channel Blocking
- System Monitoring
- Instrumentation

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
Central Wavelength		850		2000	nm
Insertion Loss [1]	1260~1650nm		0.6	1	dB
	950~1100nm		0.8	1.3	dB
	850~950nm		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 ratio		
Response Time (Rise, Fall)		80		1000	ns
Repetition Rate [2]		DC	20	100	kHz
PDL (SMF version only)			0.1	0.35	dB
IL Temperature Dependency			0.25	0.5	dB
PMD (SMF version only)			0.1	0.2	ps
Return Loss		45	50	60	dB
Operating Temperature		-5		70	°C
Optical Power Handling [3]				5	W
Storage Temperature		-40		85	°C

[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.

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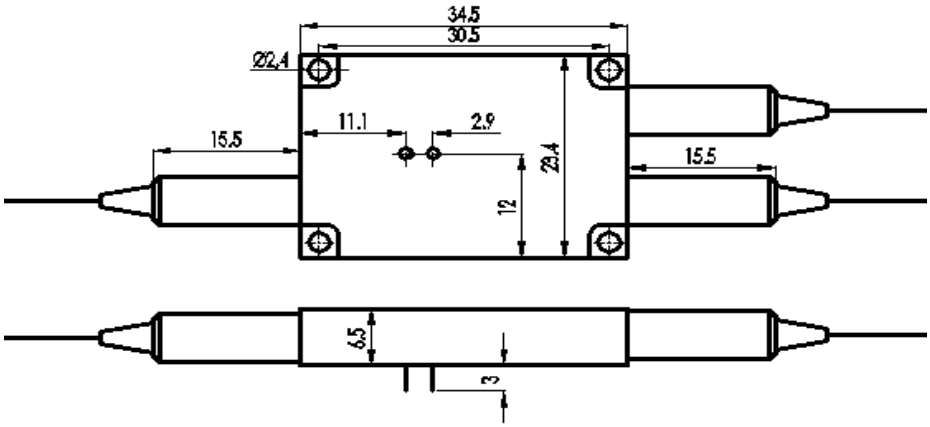
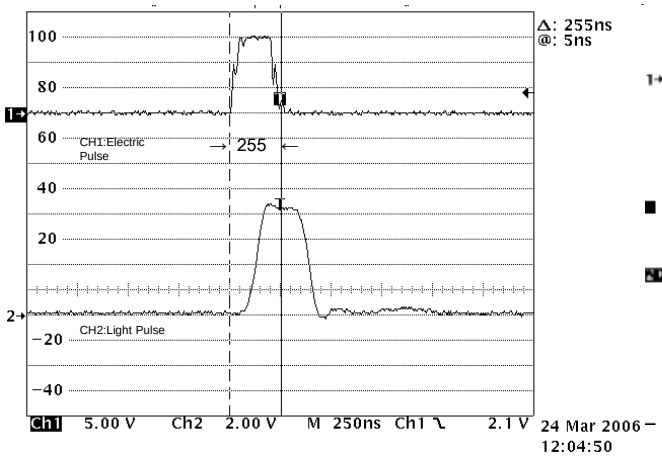
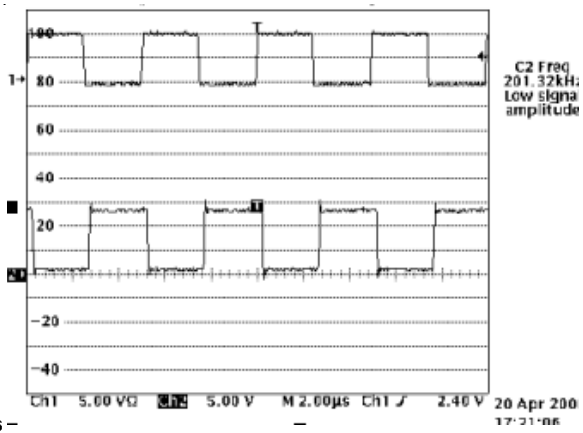
Mechanical Dimensions (mm)



*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

Speed and Repetition Measurement





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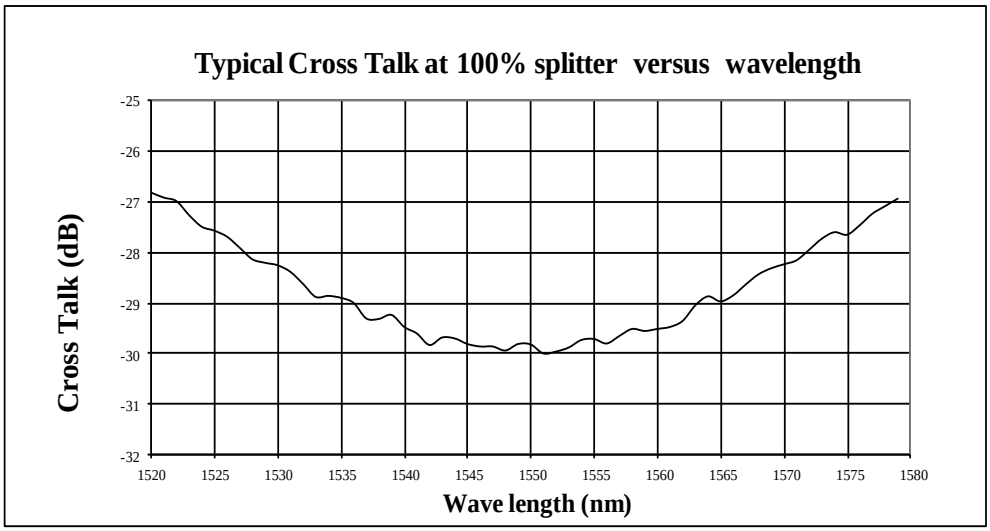
Bandwidth Measurement



Ordering Information

NHSW-	3 0	☐	1	1	☐	☐	☐	☐
	Type	Wavelength	Configuration	Package	Fiber Type		Fiber Length	Connector
	Splitter=30	1060nm=1 L Band=2 1310nm =3 1550nm =5 850nm=8 980nm=9 Special = 0			SMF-28 = 1 HI1060 = 2 HI780 = 3 PM1550= 5 PM980 = 9 Special=0 =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

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