

NanoSpeed™ High Power PM fiber Variable Optical Attenuator/Modulator

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

Product Description

The NS Series Variable Fiber Optic Attenuator provides electrical control of optical power. This is achieved using a patent pending non-mechanical configuration and activated via a voltage electrical control signal. The solid-state optical crystal design eliminates all mechanical movement and organic materials. The NS Series Variable Optical Attenuators are designed to meet the most demanding operation requirements of ultra-high reliability and fast response time with minimal mechanical footprint.

The NS Series VOA is available in either normally-transparent or normally-opaque configurations. The device can be driven by a cost effective circuit with 12V input voltage and 0-5V control signal.



Performance Specifications

NH Variable Optical Attenuator	Min	Typical	Max	Unit
Wavelength	400		1800	nm
Insertion Loss		0.4	1.0	dB
Extinction Ratio(ER)	18	25	30	dB
Return Loss	45	50		dB
Attenuation Range	22	28	36	dB
Response Time (Rise, Fall)			300	ns
Repetition Rate	DC	5	300**	KHz
Modulation Depth	DC		5***	MHz
Resolution		Continuous		dB
Operating Optical Power			5****	W
Operating Temperature	-5	~ 70		°C
Storage Temperature	-40	~ 85		°C
Fiber Type		PM Panda fiber		
Package Dimension		65.5x25x7		mm

* Driver kit is recommended

** Special circuit, 100% depth

***Special circuit, Maximum modulation depth is 5%

****Continuous operation, for pulse operation call

Features

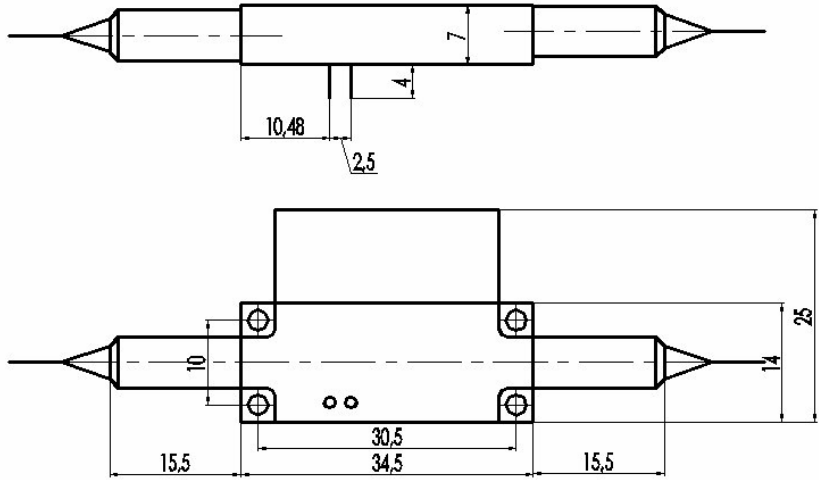
- Solid-State High Speed
- Ultra-High Reliability
- Low Insertion Loss
- Compact Size
- Low Cost
- Simple Driver
- Low Power Consumption

Applications

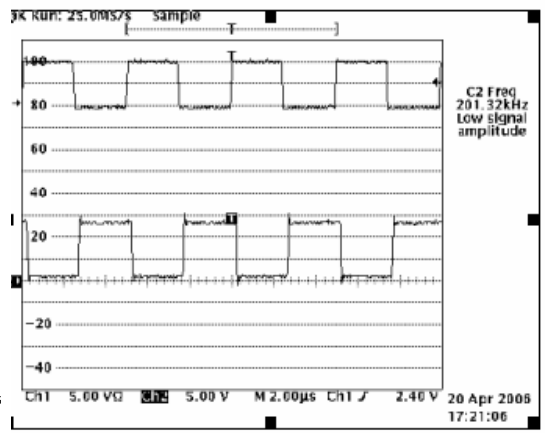
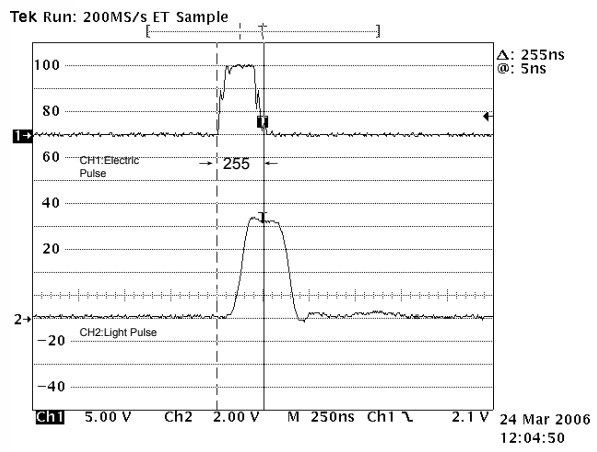
- Power Control
- Power Regulation
- Power Balance
- Instrumentation

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Mechanical Footprint Dimensions (Unit:mm)

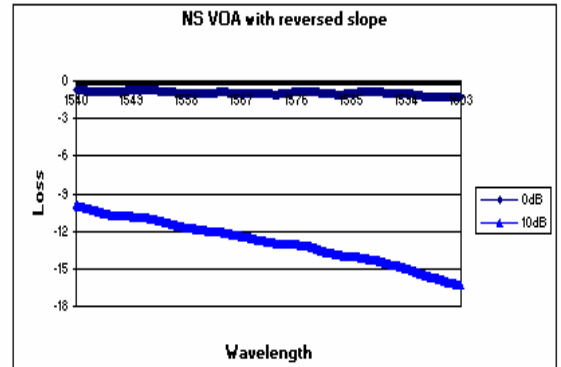
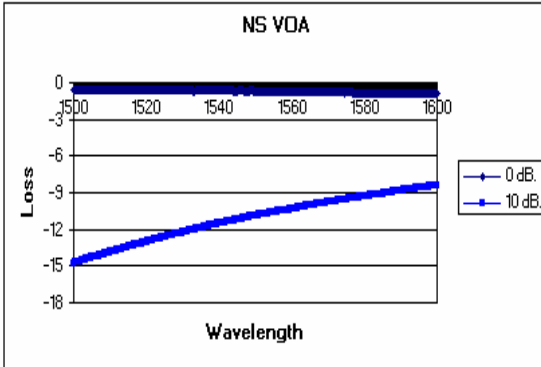


Speed and Repetition Measurement



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Specify wavelength dependent loss @10dB attenuation



Ordering Information

NHOA-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Type	Wavelength	State	Package	Fiber Type		Fiber Length	Connector
	1060=1 C+L=2 1310=3 1410=4 1550=5 650=6 780=7 850=8 1310 & 1550=9 Special=0	1060=1 C+L=2 1310=3 1410=4 1550=5 650=6 780=7 850=8 1310 & 1550=9 Special=0	Transparent=1 Opaque=2		Panda PM fiber 400=4 Panda PM fiber 250=5 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