

NanoSpeed™ 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

NS Variable Optical Attenuator	Min	Typical	Max	Unit
Wavelength	400		1800	nm
Insertion Loss ¹		0.4	1.0	dB
Extinction Ration(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			500	mW
Operating Temperature		-5 ~ 70		°C
Storage Temperature		-40 ~ 85		°C
Fiber Type		PM Panda fiber		
Package Dimension		56x7.35x9.7		mm

* Driver kit is recommended

** Special circuit, 100% depth

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

1. Excluding connectors.

Features

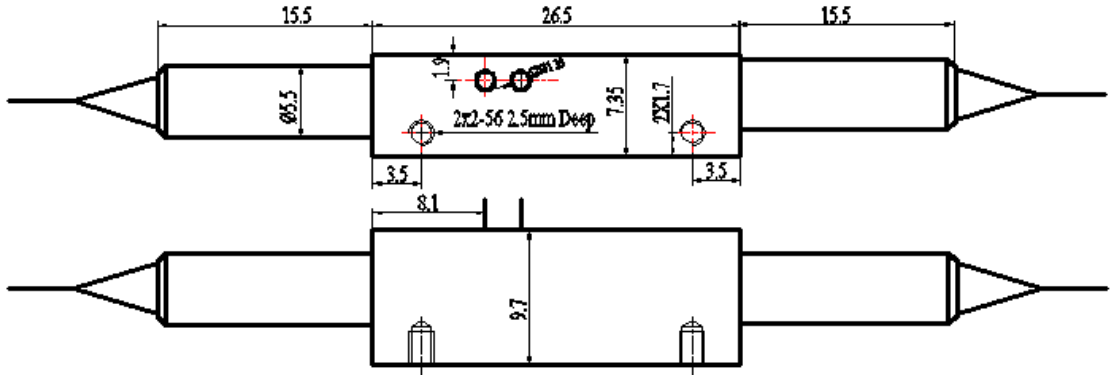
- Solid-State High Speed
- Ultra-High Reliability
- Low Insertion Loss
- Compact Size
- Low Cost
- Simple Driver
- Low Power Consumption

Applications

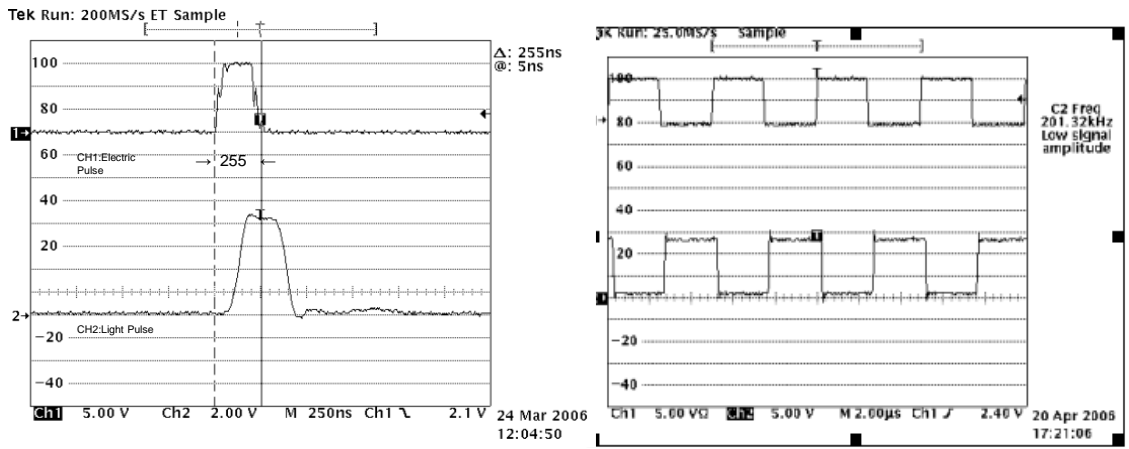
- Power Control
- Power Regulation
- Power Balance
- Instrumentation

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Mechanical Footprint Dimensions (Unit:mm)

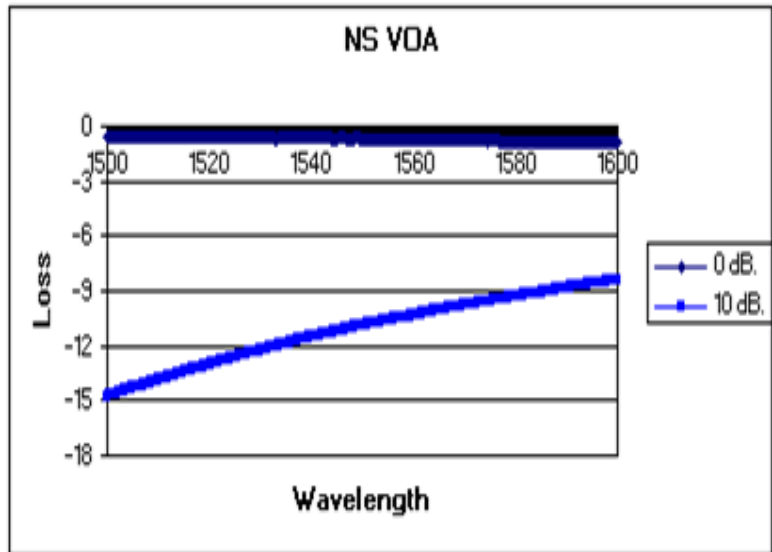


Speed and Repetition Measurement



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Specify wavelength dependent loss @ 10dB attenuation



Ordering Information

NVOA-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type	Wavelength	State	Package	Fiber Type	Fiber Length	Connector		
Regular Slope=2	1060=1 L Band=2 1310=3 1410=4 1550=5 650=6 780=7 850=8 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	