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NanoSpeed[™] Variable Fiber Optical **Attenuator Array (8 Channels)** (SMF, PMF, Bidirectional)

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

Product Description

Features

- Solid-State
- High speed
- Ultra-high reliability
- Low insertion loss
- Compact

Applications

- Optical blocking
- Configurable operation
- Instrumentation

Compliant

The NS Series Variable Fiber Optical Attenuator (VOA) provides electrical control of optical power. This is achieved using a patent pending nonmechanical configuration and activated via a voltage electrical control signal. The solid-state optical crystal design eliminates 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. Agiltron also offers customized electronic designs to meet special control requirements and applications. The switch is bidirectional. The NS Series VOA is available in either normally-transparent or normally-opaque configurations.

The array is mounted on a PCB driver board with a wall-plug 12VDC power supply and a 0-5V control signal input.

Performance Specifications

NanoSpeed Series VOA Aray		Min	Typical	Max	Unit
Central wavelength [1]		780		1650	nm
Insertion Loss ^[2]	1260~1650nm		0.6	1.0	_
	960~1100nm		0.8	1.3	dB
	780~960nm		1.0	1.5	
Attenuation Range		20	28	36	dB
PDL (SMF VOA only)			0.1	0.3	dB
PMD (SMF VOA only)			0.1	0.3	ps
ER (PMF VOA only)		18	25		dB
Resolution		Continuous			dB
Return Loss		45	50	60	dB
Response Time (Rise, Fall)		30		300	ns
Fiber Type		ç	MF-28, Panda P	M, or equivale	ent
Repeat Rate	5kHz driver	DC	5		k
	100kHz driver	DC	100		кпи
Modulation rate ^[3]		0.1		5	MHz
Optic power Handling ^[4]			300		mW
Operating Temperature ^[5]		-5		70	٥°
Storage Temperature		-40		85	Oo

[1] Operation bandwidth is +/- 25nm approximately at 1550nm.

[2] Measured without connectors. For other wavelength, please contact us.

[3] Special circuit for narrow frequency range, maximum modulation depth is 5~10%.

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

reduced, please contact us for more information.

[5] -40 premium version is also available.





NanoSpeed[™] Variable Fiber Optical Attenuator Array

Mechanical Dimensions (mm)





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

Typical Attenuation versus Voltage



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NanoSpeedTM Variable Fiber Optical Attenuator (SMF, PMF, Bidirectional)

Typical WDL @10dB attenuation



Ordering Information

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	Туре	Wavelength	Configuration	Fiber	Туре	Fiber Length	Connector
NVOA		1060nm=1 L Band=2 1310nm=3 1410nm=4 1550nm=5 780nm=7 850nm=8 Special=0	Transparent & single stage =11 Opaque & single stage = 21 Special = 00	SMF-28=1 HI1060=2 HI780=3 PM1550/250=5 PM980=9 PM850=8 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 Duplex LC=8 LC/APC=9 Special=0

