

NanoSpeed™ Dual VOA + PM Splitter (Bidirectional)

(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 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 Dual VOA+PM Splitter has a single mode fiber input and two polarization maintaining fiber outputs. A light beam enters the device and is split by polarization into two outputs whose intensities can be individually varied. The device can be driven by a cost effective circuit with 12 V input voltage and 0-5 V control signal.



Features

- No Moving Parts
- High Reliability
- Solid-State High Speed
- Low Insertion Loss
- Epoxy-Free Optical Path
- Low Power Consumption
- Simple Driver

Performance Specifications

NS Dual VOA + PM Splitter	Min	Typical	Max	Unit
Wavelength	400		1800	nm
Insertion Loss ¹		0.5	1.0	dB
Polarization Extinction Ratio			20	dB
Differential Insertion Loss		0.2		dB
Return Loss	45	50		dB
Attenuation Range	25	28	36	dB
Response Time (Rise, Fall)			300	ns
Repetition Rate	DC	5	500**	KHz
Resolution		Continuous		dB
Optical Power		300	5000***	mW
Operating Temperature		-5 ~ 75		°C
Storage Temperature		-40 ~ 85		°C
Input Fiber Type		SMF-28		
Output Fiber Type		Panda PM		
Driver Power Consumption			1.5	W
Package Dimension		see drawing		

* Driver kit is recommended

** Special circuit

*** Special order

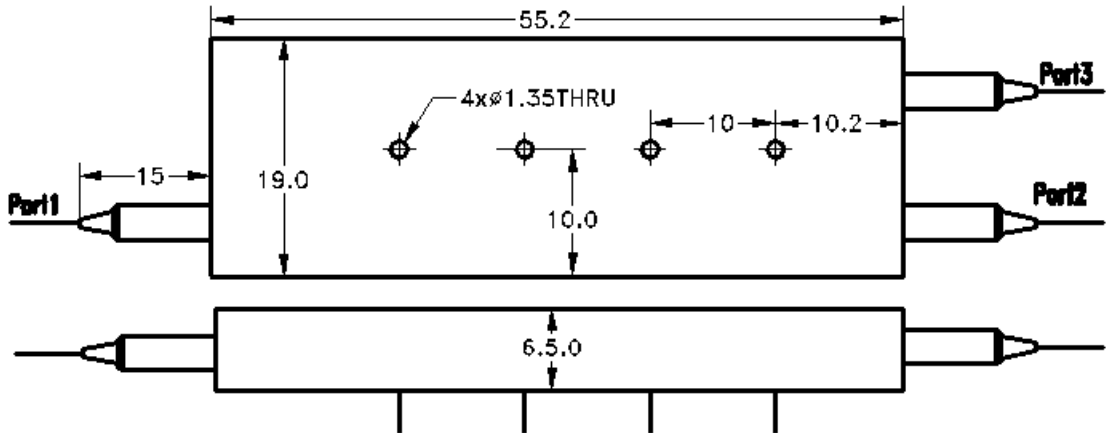
1. Excluding connectors.

Applications

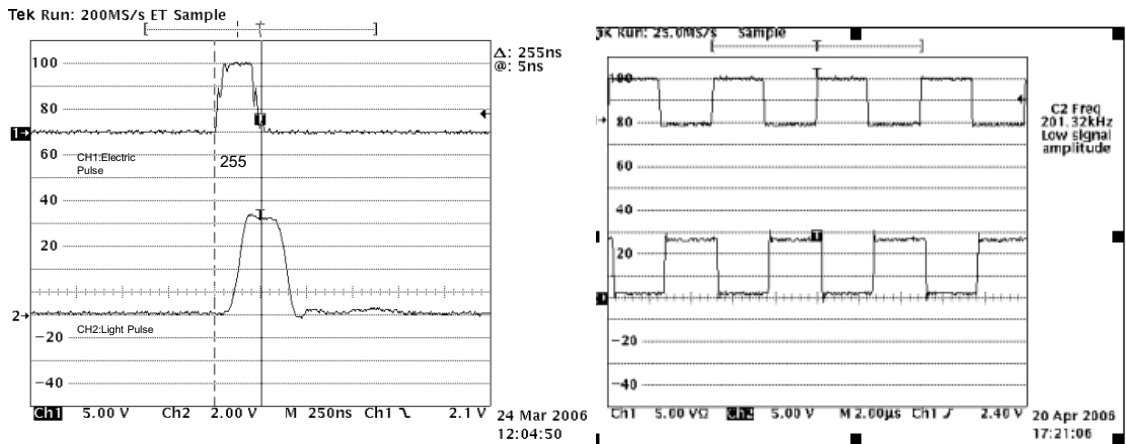
- Power Control
- Power Regulation
- Power Balance
- Instrumentation

NanoSpeed™ Dual VOA + PM Splitter

Mechanical Footprint Dimensions (Unit:mm)



Speed and Repetition Measurement



Ordering Information

NVOA-	52	<input type="checkbox"/>	<input type="checkbox"/>	1	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Type	Wavelength	State	Package	Fiber Type	Fiber Length	Connector			
	1060=1 L Band=2 1310=3 1410=4 1550=5 650=6 780=7 850=8 Special=0	Normally transparent=1 Normally opaque=2		SMF-2 =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=7 Special=0		