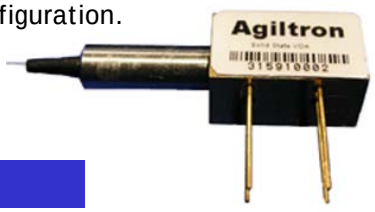
Solid-State VOA

(patents pending)

Product Description

The SS Series Variable Fiber Optic Attenuator provides electrical control of optical power. The patent pending non-mechanical configuration eliminates all mechanical movement and organic materials. The SS 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 SS Series VOA is particularly suitable for continuous power regulating operations and optical transient suppression, as well as analog signal modulation applications.

The SS Series VOA is available in opaque configuration.



Features

- No Moving Parts
- High Reliability
- Solid-State High Speed
- Low Operating Voltage
- Built-In Temperature Sensor
- Cost Effective
- Epoxy-Free Optical Path

Applications

- Power Control
- Power Regulation
- Power Balance
- Instrumentation

Performance Specifications

SS Variable Optical Attenuator		Unit
Wavelength	C-band or L-band	nm
Insertion Loss [1]	<0.8(Typ), <1.0(Max)	dB
Wavelength Dependent Loss (WDL)	< 0. 3 @15dB	dB
Temperature Dependent Loss (TDL)	< ± 0.6 @15dB	dB
Return Loss	> 45	dB
Polarization Dependent Loss (PDL)	< 0.4 @15dB	
Attenuation Range	> 25	dB
Response Time	< 150	μs
Electrically Power consumption	< 0.1	W
Resolution	Continuous	dB
Operating Optical Power	< 500	mW
Operating Currant (0~5V)	<50	mA
Operating Temperature	-5 ~ 70	°C
Storage Temperature	-40 ~ 85	°C
Fiber Type	Corning SMF-28	
Package Dimension	(L)17.2x(W)9.0X(H)9.6	mm

Notes:

1. Excluding Connectors

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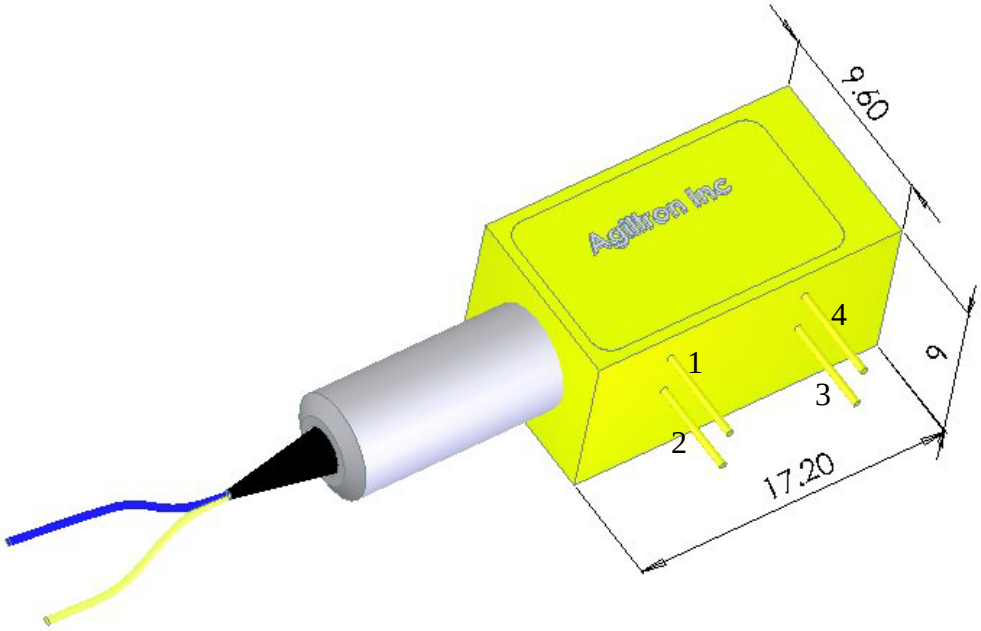
www.agiltron.com

Revision: 060-12

05-24-11

Solid-State
Variable Optical Attenuator

Device Image and Dimensions (Unit:mm)



Electrical Connector Configurations

Pin number	Pin Usage	Specifications
1 and 2		
3 and 4	Control voltage input	0 ~ <=+5V

Ordering Information

SS-	☐☐	☐	2	☐	☐	☐	☐
	Type	Wavelength	Off State	Package Type	Fiber Type	Fiber Length	Connector
	Standard=11 Special=00	1330=3 1550=5 Special=0	Opaque=2	Single device=1 Device with driver=2	SMF-28 250um=1 SMF-28 900um=2 Special=0	0.25m=1 0.5m=2 1.0m=3 Special=0	None=1 FC/PC=2 FC/APC=3 SC/PC=4 SC/APC=5 ST/PC=6 LC=7 Special=0

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