

Solid-State PM Fiber Variable Optical Attenuator

(patents pending)

Product Description

The SS Series Variable Fiber Optical Attenuator provides electrical control of optical power. This is achieved using a patent pending non-mechanical configuration and activated via a low voltage electrical current control signal without the need for special circuitry. The solid-state optical crystal design 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 operation and optical transient suppression, as well as analog signal modulation applications.

The SS Series VOA is available in either transparent or opaque configurations.



Performance Specifications

SS Variable Optical Attenuator	Min	Typical	Max	Unit
Wavelength *	1530	1550	1570	nm
Insertion Loss		0.6	1	dB
Temperature Dependence		±0.08	±0.15	dB
Extinction Ratio	18	25	30	dB
Return Loss	50	55		dB
Attenuation Range	15	20	30	dB
Switching Time	50	150	200	µs
Electrically Power consumption		0.2	0.35	W
Resolution		Continuous		dB
Operating Optical Power			500	mW
Operating Voltage			6	V
Operating Temperature		-0 ~ 65		°C
Storage Temperature		-40 ~ 85		°C
Fiber Type		Panda PM Fiber		
Package Dimension		(L)56X(W)23.6X(H)9		mm

* Agiltron can achieve same SPEC at L band

Features

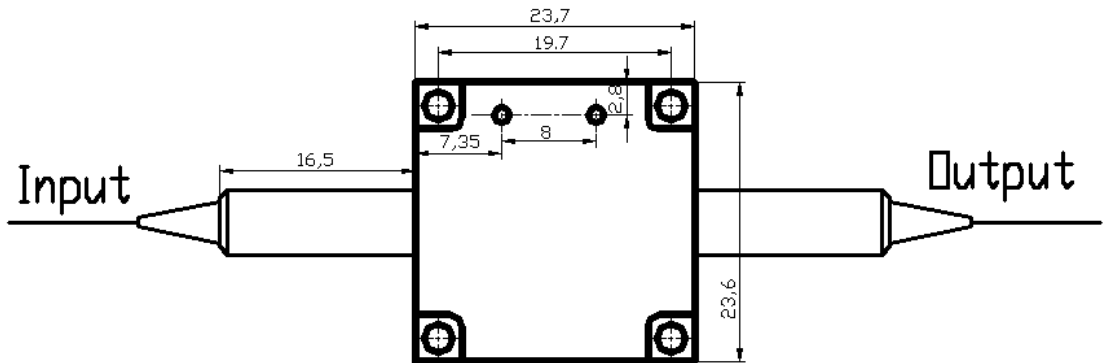
- No Moving Parts
- High Reliability
- Solid-State High Speed
- Low Operating Voltage
- Low IL
- Cost Effective
- Epoxy-Free Optical Path

Applications

- Power Control
- Power Regulation
- Power Balance
- Instrumentation

Solid-State PM fiber based Variable Optical Attenuator

Mechanical Footprint Dimensions (Unit:mm)



Electrical Connector Configurations

Parameter	Typical	Minimum	Maximum	Unit
Control Voltage			6	V
Control Current			60	mA

Evaluation kit with RS232 interfaces and Windows™ GUI is also available.

Ordering Information

SS-	Type	Wavelength	Off State	Package Type	Fiber Type	Fiber Length	Connector
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Standard=11 Special=00	1330=3 1550=5 Special=0	Transparent=1 Opaque=2		Panda 400um PM=3 Panda 400um PM with 900um loose tube=4 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