

Solid-State VOA Demm

(patents pending)

Product Description

The SS Variable Optic Attenuator provides real-time monitoring and control of optical power. The solid-state optical crystal design eliminates all mechanical movement and organic materials. The closed-loop monitoring and control eliminates most of the power variations, such as PDL, WDL, TDL, etc. The closed-loop SS Variable Optical Attenuators are designed to meet the most demanding operation requirements of ultrahigh reliability and fast response time. The closed-loop SS Series VOA is particularly suitable for continuous power regulating operations and optical transient suppression, as well as analog signal modulation applications.

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



Unit

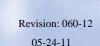
Performance Specifications

Close-loop SS VOA

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Wavelength		C- band	or L-band	nm	
Insertion Loss ¹		< 0.8	< 0.8 (Typ), <1.0 (Max)		
Wavelength Dependent Loss (WDL)		<	< 0.3 @ 15dB		
Temperature Dependent Loss (TDL)		<	< ±0.2		
Polarization	0 to10dB	<	0.10	– dB	
Dependent Loss (PDL)	>10dB	<	0.20		
Return Loss		>	> 45		
Attenuation Range		>	> 25		
Response Time		<	< 200		
Electrically Power consumption		<	< 0.2		
Resolution		Co	Continuous		
Operating Optical Power		<	< 500		
Operating Currant		-	100		
Operating Temperature		-5	-5 ~ 70		
Storage Temperature		-40	-40 ~ 85		
Fiber Type		Corning SMF-28			
Package Dimension		(L)115x	(L)115x(W)76X(H)25		
Notes:					

1. Excluding Connectors

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Features

- No Moving Parts
- High Reliability
- Solid-State High Speed
- Closed-Loop Control
- Low IL and PDL
- Cost Effective
- Epoxy-Free Optical Path

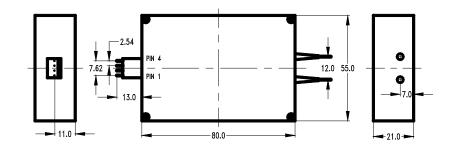
Applications

- Optical Power Control
- Optical Power Regulation
- Optical Power Balance
- Instrumentation



Solid-State Variable Optical Attenuator

Mechanical Footprint Dimensions (Unit:mm)



Electrical Connector Configurations

Pin Name	Vin	Vout	Gnd	+5V
Specification	Control	Power	Ground	4.5V to
	Voltage	monitor,	for Vin,	5.5V
	input, 0-5V	output, 0- 5V	Vout and	
			+5V	

Ordering Information

SS-				2			
	Туре	Wavelength	Off State	Package Type	Fiber Type	Fiber Length	Connector
	Standard=11 Special=00	1330=3 1550=5 Special=0	Transparent=1 Opaque=2	Evaluation Kit	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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