

Close-Loop VOA Power Controller

(patent pending)

Product Description

The close-loop Variable Optic Attenuator provides real-time monitoring and control of optical power. The close-loop monitoring and control eliminates most of the power variations, such as PDL, WDL, TDL, etc. The close-loop series VOA is particularly suitable for continuous power regulating operation and optical transient suppression, as well as analog signal modulation applications.

The close-loop Series VOA is available in either normally-open or normally-closed configurations.

Performance Specifications

Close-loop SS VOA		Unit
Wavelength	850, 1260~1360, 1510~1610	nm
Insertion Loss ¹	< 0.8	dB
Wavelength Dependent Loss (WDL)	< 0.2	dB
Temperature Dependent Loss (TDL)	< ± 0.15	dB
Polarization	0 to 10dB	dB
Dependent Loss (PDL)	> 10dB	
Return Loss	> 55	dB
Dynamic Range	> 25	dB
Response Time	< 0.01 to 5ms	µs
Electrically Power consumption	< 0.2	W
Resolution	Continuous	dB
Operating Optical Power	< 500	mW
Operating Voltage	0~5	V
Operating Temperature	-5 ~ 70	°C
Storage Temperature	-40 ~ 85	°C
Fiber Type	Corning SMF-28	
Package Dimension	(L)115x(W)76X(H)25	mm

Notes:

1. Excluding Connectors

Features

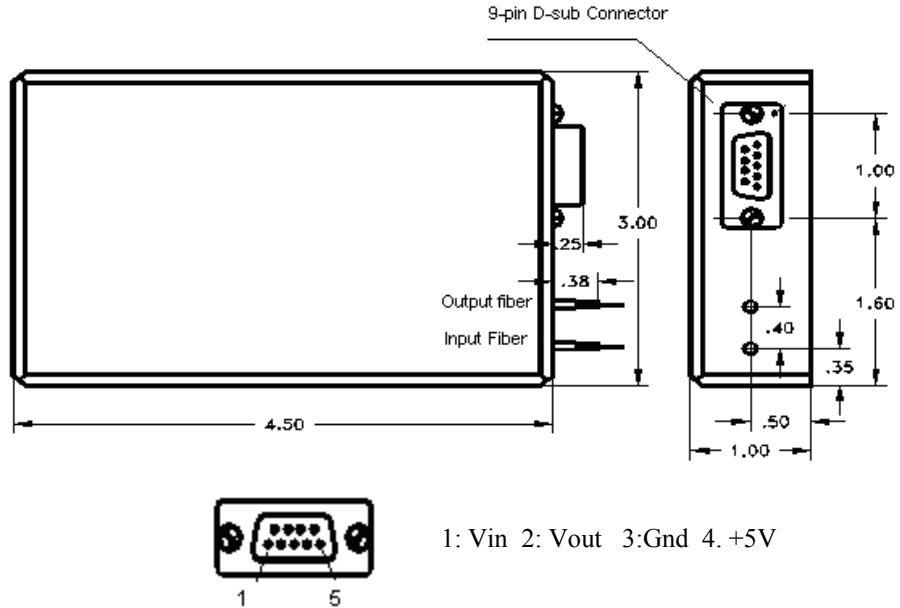
- High Reliability
- Close-loop control
- Low IL and PDL
- Precision optical power control
- Epoxy-Free Optical Path

Applications

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

Close-Loop VOA Power Controller

Mechanical Footprint Dimensions (Unit:inch)



Electrical Connector Configurations

Pin Name	Vin	Vout	Gnd	+5V
Specification	Control Voltage input, 0-4V	Power monitor, output, 0- 4V	Ground for Vin, Vout and +5V	4.5V to 5.5V

Ordering Information

CVOA	Type	Wavelength	Off State	Package Type	Fiber Type	Fiber Length	Connector Type	
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Standard=11 Special=00	1310=3 1410=4 1550=5 850 =8 1260-1620= 2 Special=0	Normally open = 1 Normally closed = 2		SMF-28 250um =1 SMF-28 900um =2 Special = 0	Bare fiber=1 900um 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