

Polarization Maintaining In-Line Manual Variable Optical Attenuator



Description

A Polarization Maintaining Variable Optical Attenuator (PM VOA) is a device used to precisely control optical power while maintaining the polarization state of the transmitted light, making it ideal for polarization-sensitive applications such as fiber lasers, sensing systems, and coherent communication.

Features

- Wide Wavelength Operating Range
- Compact Size
- High Stability
- High Reliability

Applications

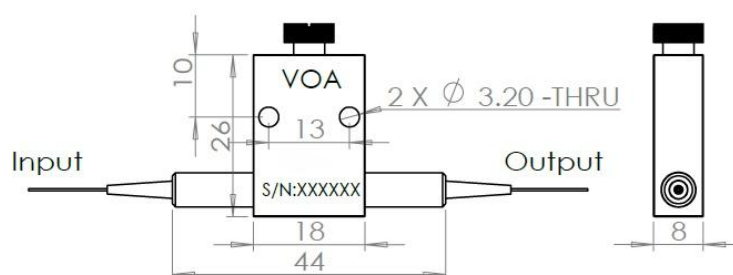
- Fiber Laser
- Fiber Optic Amplifier
- Fiber Optic Sensing
- Fiber Optic Communication

Specifications

Parameter	Unit	Value						
Center Wavelength	nm	532	630/670	780/850	980/1030/1064	1310	1480/1550	1950/2000/2050
Operating Wavelength Range	nm	±20		±50				
Insertion Loss	dB	≤1.5		≤0.6	≤0.5			≤0.8
Attenuation Range	dB	1.5 ~ 40		0.6 ~ 60	0.5 ~ 60			0.8 ~ 60
Extinction Ratio	dB	≥18			≥20			
Return Loss	dB	≥50						
Max Optical Power (CW)	mW	100		300	500			
Fiber Type	-	PM460	PM630	PM780	PM980	PM1300	PM1550	PM1950
Working Axis	-	Slow Axis (Default) or Fast Axis or Both Axis						
Tensile Load (Max.)	N	5						
Package Dimensions	mm	26 x 18 x 8						
Operating Temperature	°C	-5 to +70						
Storage Temperature	°C	-40 to +85						

Notes: Tested at 25 °C. Specifications exclude connectors. Adding connectors may cause wavelength-dependent variation in insertion loss; please contact us for detailed data. Return loss decreases by approximately 5 dB, and extinction ratio by 2 dB. The fiber slow axis is aligned to the key by default.

Product Dimensions



Ordering Information

						
Center Wavelength	Max Optical Power (CW)	Working Axis	Fiber Type	Pigtail Length	Pigtail Diameter	Connector
532nm	100mW	Slow Axis	PM460	0.5m	250μm Bare Fiber	None
630nm	300mW	Fast Axis	PM630	1.0m	900μm Loose Tube	LC/UPC
670nm	500mW	Both Axis	PM780	1.5m	2.0mm	LC/APC
780nm			PM980	2.0m	3.0mm	SC/UPC
850nm			PM1300			SC/APC
980nm			PM1550			FC/UPC
1030nm			PM1950			FC/APC
1064nm						ST/UPC
1310nm						ST/APC
1480nm						
1550nm						
1950nm						
2000nm						
2050nm						