



Mini Type Manual Variable Optical Attenuator (MVOA Series)

Rev 11B

Description

Mini Type Manual Variable Optical Attenuator (MVOA) operates by manually moving a shading element into optical beam. The shading element can be adjusted to get any attenuation value in a range. This MVOA features low insertion loss, good resolution, integrating high stability, good reliability and applies for pre-emphasis attenuation, transmitter power control, in-line power equalization and amplifier power control, etc.

Key Features

- High Resolution
- Compact Size

Applications

- Fiber Sensing
- Equipment
- Fiber Optic Instruments

Specifications

Parameter

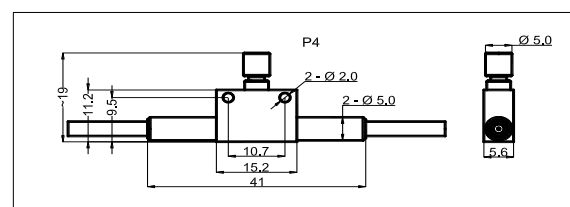
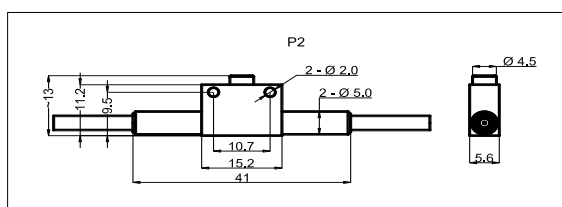
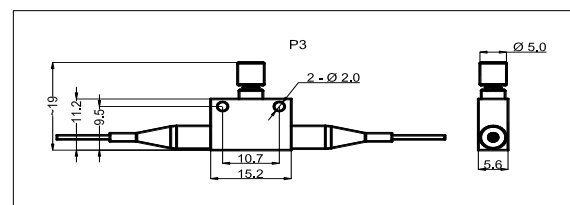
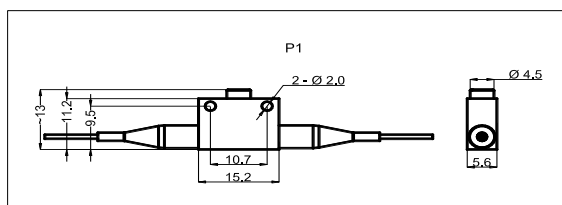
Center Wavelength (λ_c)	
Operating Wavelength Range	
Max. Excess Loss	
Max. WDL, Minimum Attenuation, 23 °C	
Min. Attenuation Range	
Resolution within 10 dB Attenuation Range	
Min. Extinction Ratio (for PM Fiber Type), 23 °C	
Max. PDL (for SM Fiber Type), λ_c , Minimum Attenuation, 23 °C	
Max. TDL at attenuation range, λ_c	
Min. Return Loss (for SM or PM Fiber)	
Min. Return Loss (for MM Fiber)	
Max. Optical Power (Continuous Wave)	
Operating Temperature	
Storage Temperature	

Unit	Value	
nm	780 or 850	980 or 1064
nm	± 10	± 20
dB	1.0	0.6
dB		0.3
dB		30
dB		0.1
dB		20
dB		0.05
dB/°C		0.01
dB		50
dB		25
mW		300
°C		0 to 70
°C		- 40 to + 85

¹IL is 0.5 dB higher, RL is 5 dB lower, and ER is 2 dB lower for each connector added.

²TDL is exempted when attenuation value over 30 dB.

Package Dimensions



Screwdriver Type

Manual Type

tolerance: x — ± 1 mm , x.x — ± 0.1 mm

¹Note: Package type P1 & P3 is designed for 250 μ m or 900 μ m fiber jacket and Package type P2 & P4 is designed for 2 mm or 3 mm fiber jacket.

Ordering Information

MVOA-①①①①-②-③-④-⑤-⑥

①①①①: Wavelength

780 - 780 $\pm$ 10 nm

850 - 850 $\pm$ 10 nm

980 - 980 $\pm$ 20 nm

1064 - 1064 $\pm$ 20 nm

SSSS - Specify

②: Fiber Type

H - HI Fiber

P - PM Panda Fiber

M1 - 105/125 0.22 NA

M5 - 50/125

M6 - 62.5/125

S - Specify

③: Connector Type

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

N - None

④: Fiber Jacket

B - 250 μ m Bare Fiber

L - 900 μ m Loose Tube

C - 3 mm Cable

2 - 2 mm Cable

⑤: Fiber Length

Q - 0.75 m

1 - 1.0 m

S - Specify

⑥: Package Type

P1 - Turn With Screwdriver

P2 - Turn With Screwdriver

P3 - Turn With Manual

P4 - Turn With Manual