

Mini Type Manual Variable Optical Attenuator (MVOA Series)

Rev 11F

Description

Mini Type Manual Variable Optical Attenuator (MVOA) operates by manually moving a shading element into optical beam. The shading element can be integrated and adjusted to get any attenuation value in a range. MVOA features low insertion loss, good resolution, high stability and good reliability. The Manual Variable Optical Attenuator 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

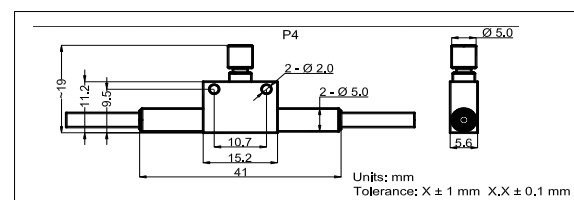
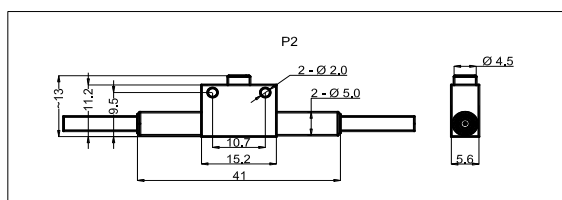
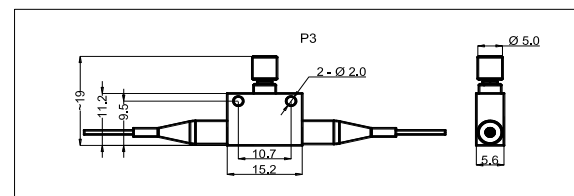
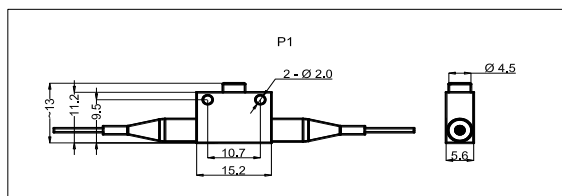
Parameter	Unit	Value
Operating Center Wavelength (λ_c)	nm	1310, 1480, 1550 or 1310 & 1550
Max. Excess Loss	dB	0.6
Max. WDL, minimum attenuation, 23 °C	dB	0.3
Min. Attenuation Range	dB	30
Resolution within 10 dB Attenuation Range	dB	0.1
Min. Extinction Ratio (for PM Fiber Type), 23 °C	dB	20
Max. PDL (for SM Fiber Type), λ_c , minimum attenuation, 23 °C	dB	0.05
Max. TDL at attenuation range, λ_c^2	dB/°C	0.01
Min. Return Loss (for SM or PM Fiber)	dB	55
Min. Return Loss (for MM Fiber)	dB	25
Max. Optical Power (Continuous Wave)	mW	300
Operating Temperature	°C	0 to + 70
Storage Temperature	°C	- 40 to + 85

¹IL is 0.3 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.

³PM1310 Fiber for 1310 nm and 3155 nm, PM1550 Fiber for 1480 nm and 1550 nm.

Package Dimensions

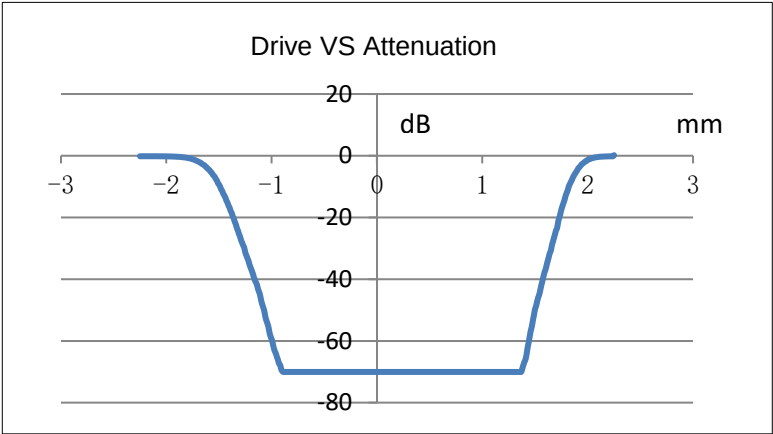


Screwdriver Type

Manual Type

tolerance: x — ± 1 mm, x.x — ± 0.1 mm

¹Note: Package Type P1 & P3 are designed for 250 µm or 900 µm fiber jacket and Package Type P2 & P4 are designed for 2 mm or 3 mm fiber jacket.



Ordering Information

MVOA-①①①①-②-③-④-⑤-⑥

①①①①: Wavelength

1310 - 1260 ~ 1360 nm

1480 - 1450 ~ 1510 nm

1550 - 1510 ~ 1610 nm

3155 - 1260 ~ 1360 & 1510 ~ 1610 nm

SSSS - Specify

②: Fiber Type

F - SMF-28 Fiber

P3 - PM 1310 Fiber

P5 - PM 1550 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 µm Bare Fiber

L - 900 µm Loose Tube

2 - 2 mm Cable

3 - 3 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