

Mini Type Manual variable Attenuator (MVOA Series)

Rev 11 F

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

Specifications

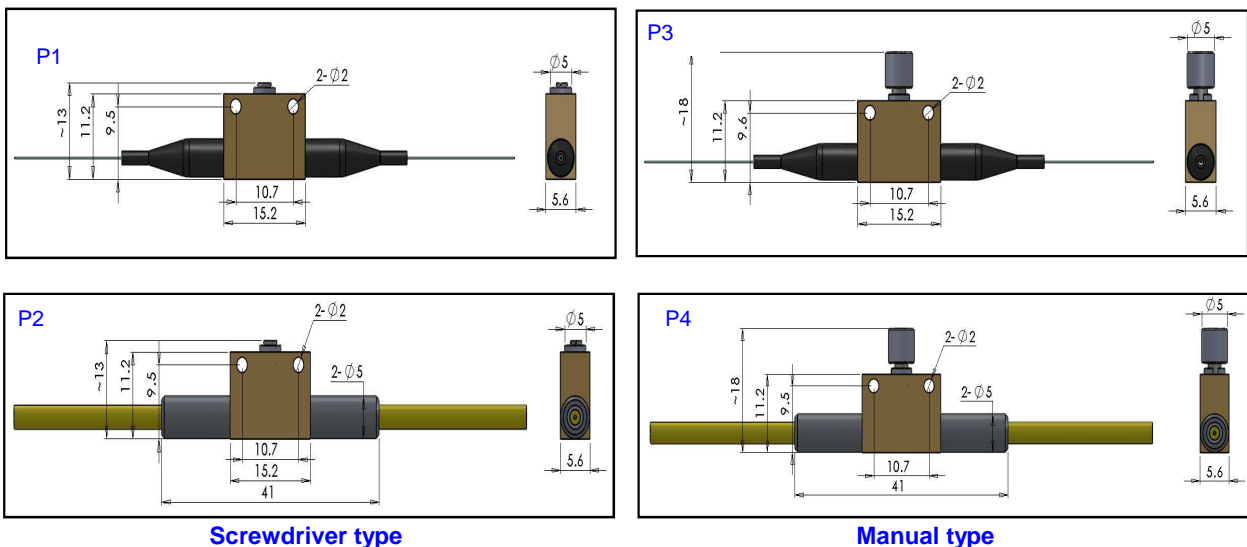
Parameter	Unit	Value
Operating Center Wavelength(λ_c)	nm	1310,1480,1550 or 1310&1550
Max. Excess Loss	dB	0.6
Max. WDL, 23°C, minimum attenuation	dB	0.3
Min. Attenuation Range	dB	30
Resolution within 10 dB Attenuation Range	dB	0.1
Min. Extinction Ratio (for PM fiber type)	dB	20
Max. PDL (for SM fiber type), 23 °C, λ_c , minimum attenuation	dB	0.05
Max. TDL at attenuation range, λ_c **	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

*IL is 0.3 dB higher, RL is 5 dB lower, and ER is 2 dB lower for each connector added.

**TDL is exempted when attenuation value over 30 dB.

*** PM 1310 fiber for 1310nm and 3155nm, PM 1550 fiber for 1480nm and 1550nm.

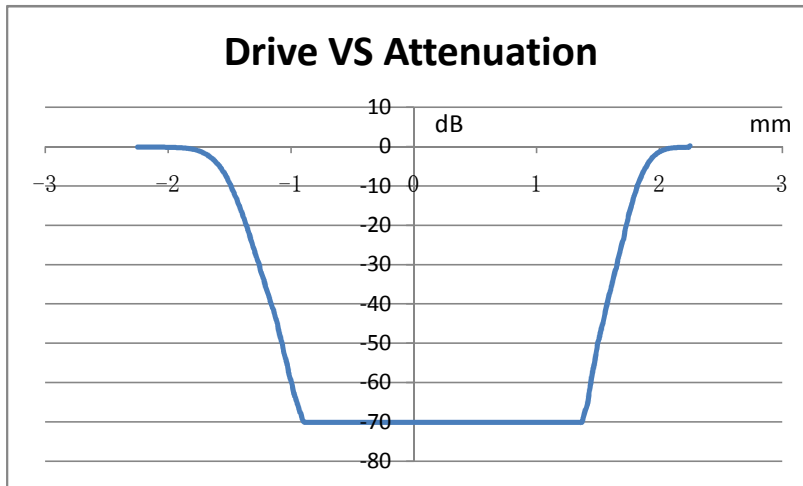
Package Dimensions



tolerance:x—±1 mm ,x.x—±0.1 mm

* Note: 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.

Attenuation Curve



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 N.A. 0.22

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