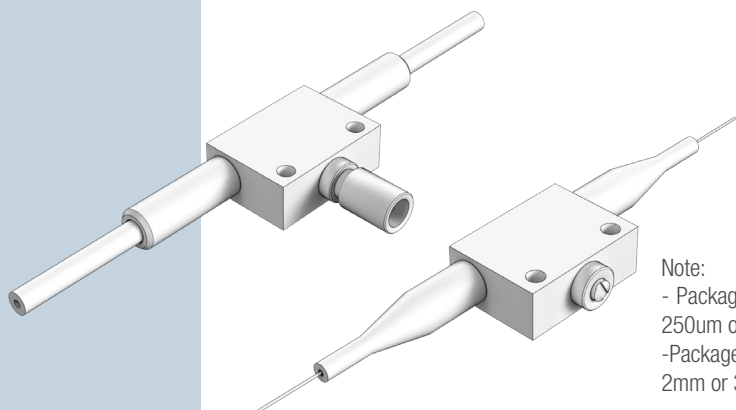
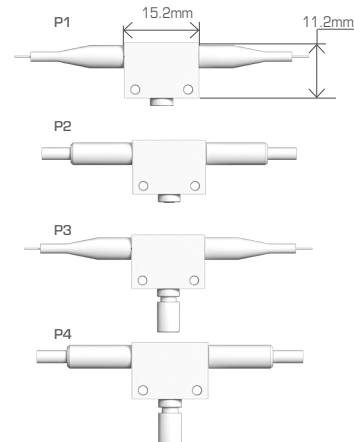




MINI MANUAL VARIABLE ATTENUATOR



Note:
 - Package type P1&P3 is designed for 250um or 900um fiber jacket
 - Package type P2&P4 is designed for 2mm or 3mm fiber jacket.



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 is applied for pre-emphasis attenuation, transmitter power control, in-line power equalization, and amplifier power control.

	PARAMETERS	VALUE		UNIT
SPECIFICATIONS	Center Wavelength (λ_c)	780 or 850	980 or 1064	nm
	Operating Wavelength Range	± 10	± 20	nm
	Max. Excess Loss	1.0	0.6	dB
	Max. WDL, 23C°, minimum attenuation	0.3		dB
	Min. Attenuation Range	30		dB
	Resolution within 10dB Attenuation Range	0.1		dB
	Min. Extinction Ratio (for PM fiber type)	20		dB
	Max. PDL (for SM fiber type), 23C°, c, minimum attenuation	0.05		dB
	Max. TDL at attenuation range, c**	0.01		dB/°C
	Min. Return Loss (for SM or PM fiber)	50		dB
	Min. Return Loss (for MM fiber)	25		dB
	Max. Optical Power (Continuous Wave)	300		mW
	Storage Temperature	0 ~ +70		°C
	Operating Temperature	-40 ~ + 85		°C

*Note: *IL is 0.5 dB higher, RL is 5 dB lower, and ER is 2 dB lower for each connector added. TDL is exempted when attenuation value over 30dB.

CODE	WAVELENGTH	FIBER TYPE	FIBER JACKET	CONNECTOR TYPE	FIBER LENGTH	PACKAGE TYPE
F4M-MVOA	78	780 \pm 10 nm	HI HI fiber	25 250 μ m Bare Fiber	0 None	05 0.5 m
	85	850 \pm 10 nm	PF Panda fiber	9L 900 μ m Loose Tube	A SC/UPC	10 1m
	98	980 \pm 20 nm	M1 105/125 N.A.	2M 2mm	B SC/APC	S Specify
	64	1064 \pm 20 nm	M5 50/125	3M 3mm	C FC/UPC	P4 Knob
	S	Specify	M6 62.5/125	S Specify	D FC/APC	
			S Specify		E LC/UPC	
					Q LC/APC	
					S Specify	

ORDER CODE EXAMPLE

F4M-MVOA - S - S - 2M - 00 - 10 - P1

