

850 or 1310nm MM MEMS VOA

850 or 1310nm MM MEMS Variable Optical Attenuator (MEMS VOA) is an optoelectronic products designed for attenuating the optical power, it integrates with a MEMS chip inside to adjust the angle of the reflection prism to achieve the optical power attenuation function, it's widely used in WDM fiber system, fiber line protection and optical power monitoring field.

Application:

Fiber Communication
EDFA Power Protection
Fiber Line Protection
Testing System

Features:

Compact Package
High attenuation
High responsivity
High Reliability

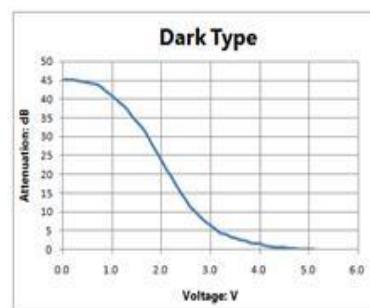
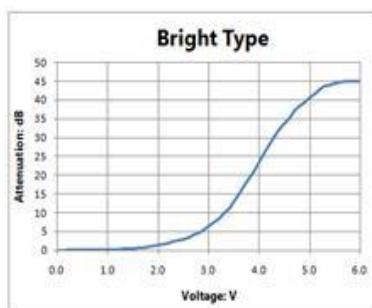


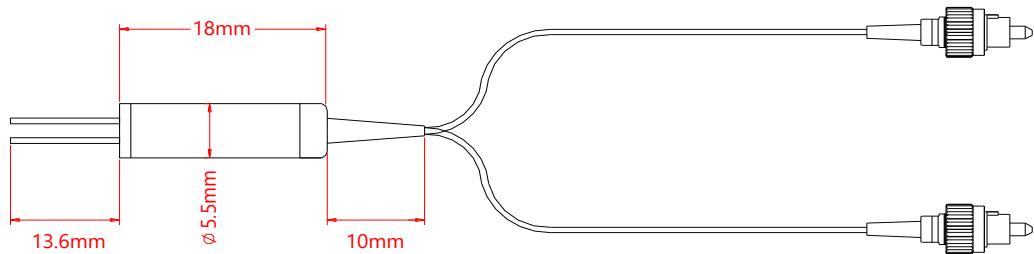
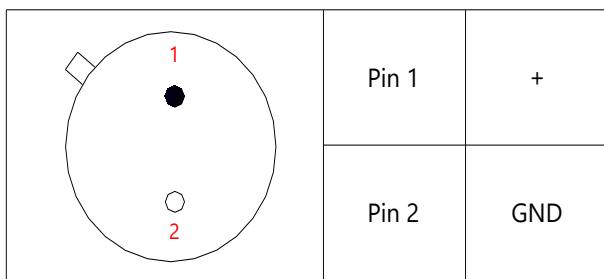
Specifications:

Parameter	Symbol	Value	Unit	Test Condition
Center Wavelength	λ	850 or 1310	nm	
Bandwidth	BW	± 40	nm	
Max. Attenuation Range	Att.	40	dB	
Typ. Insertion Loss	IL	0.8	dB	0dB attenuation
Max. Insertion Loss	IL	1.2	dB	
Max. Wavelength Dependent Loss	WDL	0.3	dB	0dB attenuation
		1.5	dB	20dB attenuation
Max. Wavelength Ripple		0.05	dB	attenuation, $\Delta \lambda = 0.4\text{nm}$
Max. Temperature Dependent Loss	TDL	1.0	dB	0dB attenuation
		2.0	dB	20dB attenuation
Max. Polarization Mode Dispersion	PMD	0.1	ps	
Max. Response Time		8	ms	
Driving Voltage	V	35	V	
Min. Return Loss	RL	35	dB	
Max. Optical Power (CW)	P	500	mW	
Fiber Type		50/125, 62.5/125 MM fiber	-	
Operating Temperatuer	T	0 to 70	°C	
Storage Temperature	T	-40 to +85	°C	

Notice: Above specifications are tested at center wavelength without connector in room temperature @23°C.

For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower.



Drawing:**Pin Information:****Ordering Information (Part Number):**MMEV-**WWWW-T-DD-FF-J-LL-CC**

WWWW	T	DD	FF	J	LL	CC
Wavelength	Attenuation Type	Driving Voltage	Fiber Type	Fiber Jacket	Fiber Length	Connector
850 - 850nm 1310 - 1310nm	B - Bright D - Dark	35 - 35V	M5 - 50/125 M6 - 62.5/125	B - 250um Bare Fiber 9 - 900um Loose Tube	05 - 0.5m 10 - 1.0m 15 - 1.5m 20 - 2.0m SS - Specify	NE - None FA - FC/APC FU - FC/UPC LA - LC/APC LU - LC/UPC SA - SC/APC SU - SC/UPC ST - ST/UPC

Notification:

1. The MEMS products are particularly sensitive of ESD (electro-static discharge), it's recommended to use grounded anti-static wrist straps and grounded anti-static mats before handling the products.
2. Make sure the driving voltage is 0V before and after operating.
3. when switching on the circuit, connect '-' (pin2) first, then '+' (pin 1) and upgrade voltage slowly. when switch off the circuit, power off '+' (pin 1) first, then '-' (pin 2).
4. Always take anti-static measures to storage the products when not in use.

