

840nm SM MEMS VOA

840nm SM MEMS VOA (Variable Optical Attenuator) 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 Quantum Communication system, fiber line protection and Optical Testing System. High power version is also available.

Application:

Quantum Communication
Fiber Line Protection
Testing System
Lab & Research

Features:

Compact Package
High attenuation
High responsivity
High Reliability

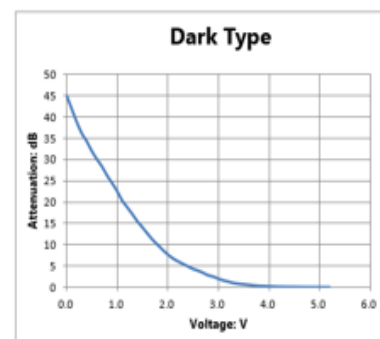
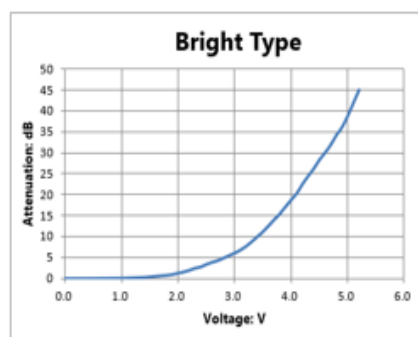


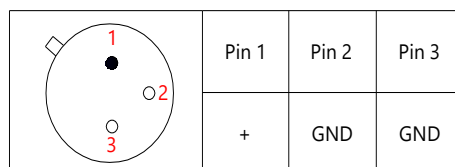
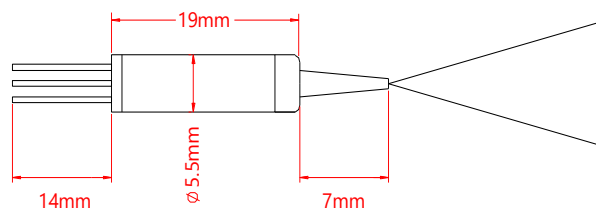
Specifications:

Parameter	Symbol	Value	Unit
Center Wavelength	λ	840	nm
Bandwidth	BW	± 20	nm
Max. Attenuation Range	Att.	45	dB
Typ. Original Loss	IL	0.9	dB
Max. Original Loss	IL	1.2	dB
Max. Wavelength Dependent Loss	WDL	0.3 (@0dB), 1.5 (@20dB)	dB
Max. Wavelength Ripple		0.05	dB
Max. Polarization Dependent Loss	PDL	0.15	dB
Max. Temperature Dependent Loss	TDL	0.2 (@0dB), 1.0 (@20dB)	dB
Max. Response Time		3	ms
Driving Voltage	V	6	V
Min. Return Loss	RL	45	dB
Max. Optical Power (CW)	P	500	mW
Max. Tensile Load		5	N
Fiber Type		HI 780 fiber	-
Operating Temperature	T	-5~70	°C
Storage Temperature	T	-40~85	°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 and Pin Information:**Ordering Information (Part Number):****SMEV-WWW-T-DD-J-LL-CC**

WWW	T	DD	J	LL	CC
Wavelength	Attenuation Type	Driving Voltage	Fiber Jacket	Fiber Length	Connector
800 - 800nm	B - Bright	06 - 6V	B - 250um Bare Fiber	05 - 0.5m	NE - None
808 - 808nm	D - Dark		9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
810 - 810nm				15 - 1.5m	FU - FC/UPC
820 - 820nm				20 - 2.0m	LA - LC/APC
830 - 830nm				SS - Specify	LU - LC/UPC
850 - 850nm					SA - SC/APC
SSS - Specify					SU - SC/UPC
					SS - Specify

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 ' GND ' first, then ' + ' (pin 1) and upgrade voltage slowly. when switch off the circuit, power off '+' (pin 1) first, then ' GND '.
4. Always take anti-static measures to storage the products when not in use.

