1040±50nm Broadband SM MEMS VOA

1040±50nm Broadband 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, OCT and Optical Testing System. High power version is also available.

Application:

Quantum Communication
OCT
Testing System
Lab & Research

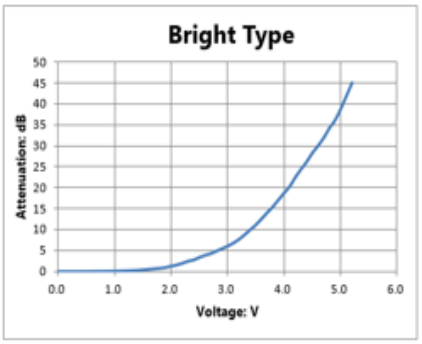
Features:

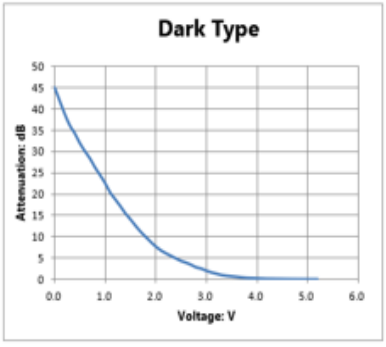
Compact Package
High attenuation
High responsivity
High Reliability

Specifications:

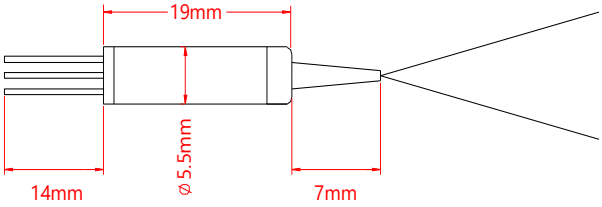
Parameter	Symbol	Value	Unit
Center Wavelength	λ	1040	nm
Bandwidth	BW	±50	nm
Max. Attenuation Range	Att.	45	dB
Typ. Original Loss	IL	0.9	dB
Max. Original Loss	IL	1.2	dB
Max. Wavelength Dependent Loss	WDL	0.3 (@0dB), 1.5 (@20dB)	dB
Max. Wavelength Ripple		0.05	dB
Max. Polarization Dependent Loss	PDL	0.15	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. Tensil Load		5	N
Fiber Type		HI 1060 fiber	-
Operating Temperatuer	T	-5~70	℃
Storage Temperature	T	-40~85	℃

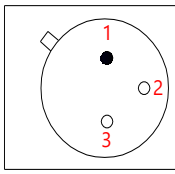
Notice: Above specifications are tested at center wavelength without connector in room temperature @23℃.
For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower.





Drawing and Pin Information:





Pin 1	Pin 2	Pin 3
+	GND	GND

Ordering Information (Part Number):

SMBEV-WWWW-T-DD-J-LL-CC

WWWW	T	DD	J	LL	CC
Wavelength	**Attenuation Type**	**Driving Voltage**	**Fiber Jacket**	**Fiber Length**	**Connector**
1030 - 1030nm 1040 - 1040nm 1050 - 1050nm 1060 - 1060nm SSSS - Specify	B - Bright D - Dark	06 - 6V	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 SS - Specify

Notification:

1. The MEMS products are particulary 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.