Hirundo
Hirundo Optics Inc

MEMS VOA

Characteristics

> Steel tube type small package

> Low insertion loss, low WDL/PDL

> Response speed

> High reliability and high stability



Application

> Optical Power Control and Equalization

> WDM (Wavelength Division Multiplexing) System

> EDFA Gain Control

> Instruments and Equipment

Follow the standard

> Telcordia GR-1221

> Telcordia GR-1073

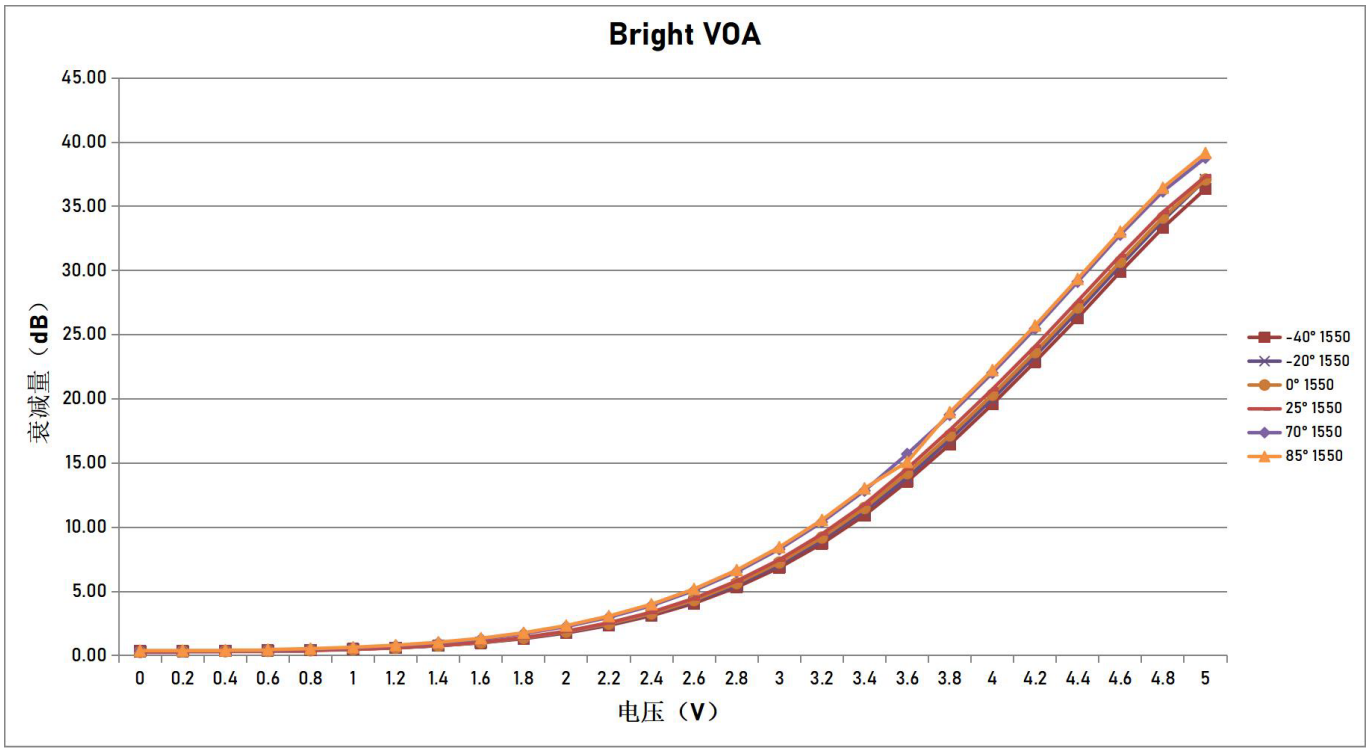
Specification

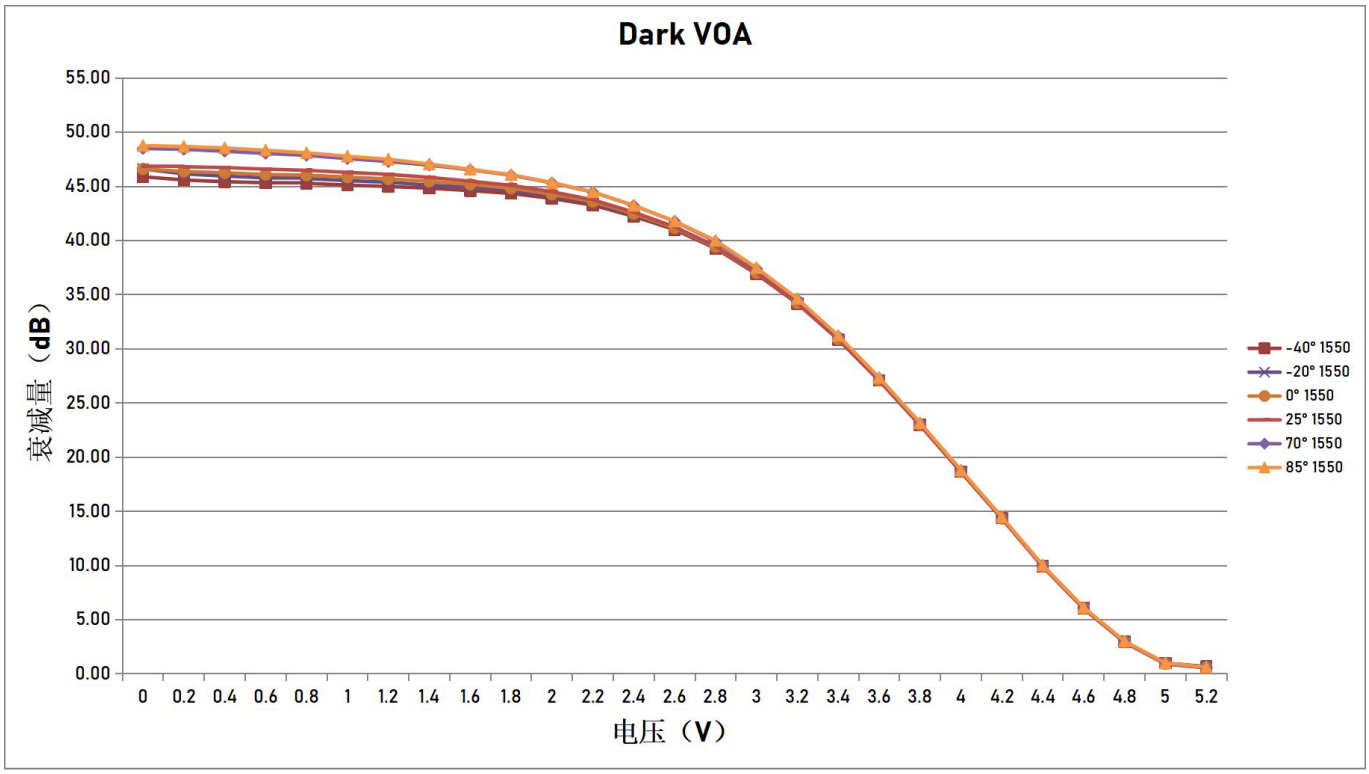
Parameters	Organization	MEMS VOA
Attenuation type		Bright or Dark
Working wavelength	nm	1260~1620 for SM, 850/1310 for MM
Attenuation range	dB	⩾30 @5V for SM, ⩾30 @30V for MM
Response time	ms	⩽8
Insertion loss	dB	⩽0.7
Wavelength-dependent loss	dB	⩽0.25 @0V
Return loss	dB	SM⩾50, MM⩾30
Drive power supply	V	SM⩽6.5, MM⩽35
Maximum optical power	mW	⩽500
Working temperature	°c	-20 ~ +85
Storage temperature	°c	-40 ~ +85
Package size	nm	Φ5.4×19

> All parameters were tested under normal room temperature conditions.

> All parameters do not include the insertion loss of the connectors.

Decay curve



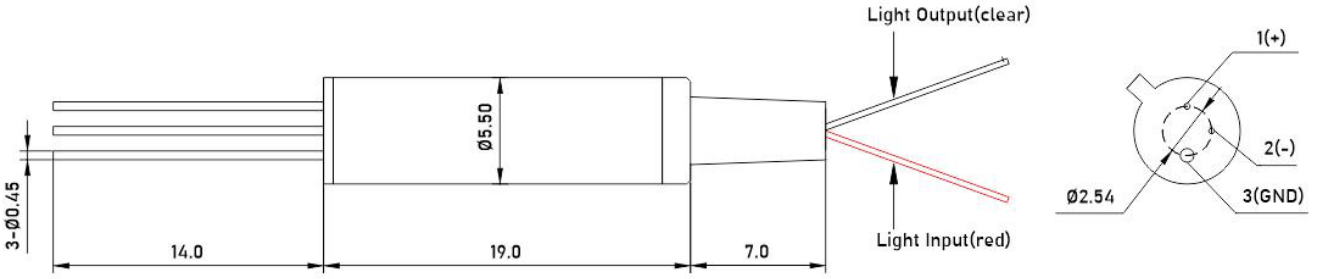


MEMS VOA Temperature Attenuation Curve: The horizontal axis represents voltage (V), and the vertical axis represents the attenuation value of VOA (in dB).

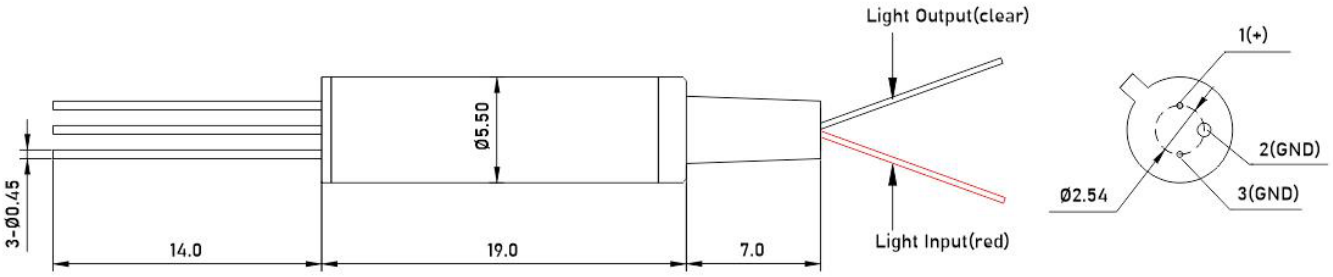
In the figure, the attenuation curves of VOA at -40°, -20°, 0°, 25°, 70°, and 85° are represented by different colors respectively.

MEMS VOA

Packaging dimensions



1-SM MEMS VOA



2-MM MEMS VOA

Pin definition

Pin number	Single-mode MEMS VOA	Multimode MEMS VOA
1	Positive electrode	Positive electrode
2	Negative electrode	GND
3	GND	GND

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Order information : MVOA-A-B-C-D-E-F

A	
Code	Wavelength
C	C Band
L	L Band
D	D&L Band
M	Multimode
X	Other

B	
Code	Attenuation type
B	Bright
D	Dark

C	
Code	Attenuation range
25	min.25dB
30	min.30dB
40	min.40dB
X	Other

D	
Code	Fiber diameter
025	Φ0.25mm
09	Φ0.9mm
X	Other

E	
Code	Fiber optic length
25	0.5m
30	1.0m
40	1.5m
X	Other

F	
Code	Connector
00	NO
FP	FC/UPC
FA	FC/APC
SP	SC/UPC
SA	SC/APC
LP	LC/UPC
LA	LC/APC
MP	MPO
X	Other