

MEMS VOA

Features

- Low Insertion Loss & Low PDL
- Low Power Consumption
- Low WDL & Compact Design

Applications

- Power Control
- Channel Balance
- Instrumentation



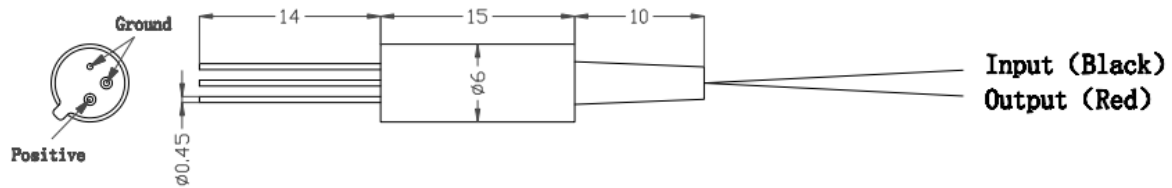
Product Description

MEMS Variable optical attenuator (VOA) use the micro electro mechanical system (MEMS) principle of electrostatic driving mirror rotation to realize the high repetitive coupling between the input and output fiber. They are dynamic and continuous variable optical attenuators.

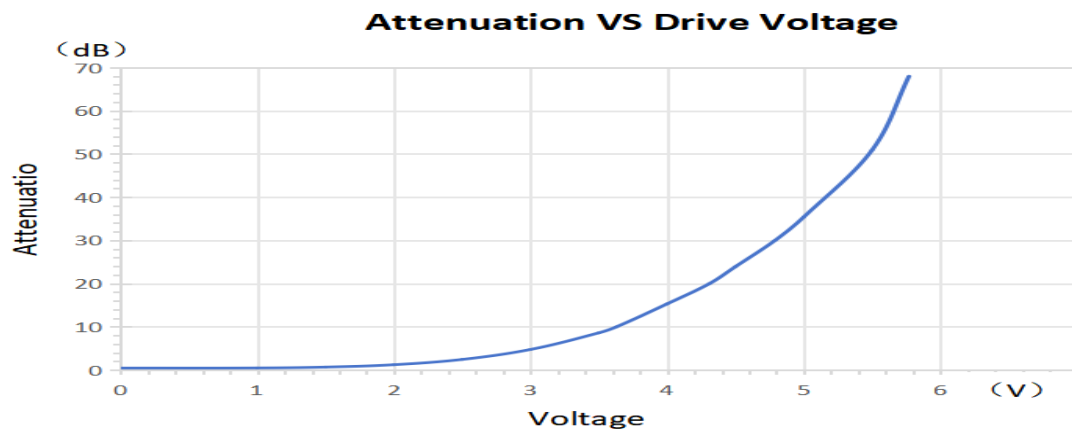
Performance Specifications

Parameters	Unit	Specifications
Wavelength Range	nm	1260 ~ 1650
Test Wavelength	nm	1310 / 1550
Insertion Loss ^{1, 2}	dB	≤ 0.8
Attenuation Range	dB	≥ 40
Attenuation Resolution		Continuous
Return Loss	dB	≥ 50
PDL	dB	@0~10dB ≤ 0.2
		@10~20dB ≤ 0.5
WDL	dB	@0~10dB ≤ 0.4
		@10~20dB ≤ 0.8
TDL	dB	@0~10dB ≤ 0.5
		@10~20dB ≤ 1.0
Repeatability	dB	≤ 0.1
Driving Voltage	V	≤ 8
Response Time (10-90% optical power)	ms	≤ 5
Durability	Cycles	≥ 10 ⁹
Optical Power	mW	≤ 500
Operating Temperature	°C	-5 ~ +70
Storage Temperature	°C	-40 ~ +85
Relative Humidity	%	5 ~ 95
Dimension	mm	(Φ)6.0×(L)15.0±0.2
Note: ¹ Test at room temperature and SOP. ² Excluding connectors, 0.2dB for one pair connectors.		

Mechanical Dimensions (Unit:mm)



Attenuation vs Drive Voltage



Ordering Information

YFS-VOA-□-□-□-□-□-□

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VOA Type	Fiber Type	Test Wavelength	Tube Type	Fiber Length	Connector
B: Bright	SM:	1310:	25:	05:	OO: None
D: Dark	SM, 9/125	1310nm	250um	0.5m±5cm	FP: FC/PC
	X:	1550:	90:	10:	FA: FC/APC
	Others	1550nm	900um	1.0m±5cm	SP: SC/PC
		X:	X:	X:	SA: SC/APC
		Others	Others	Others	LP: LC/PC
					LA: LC/APC
					X: Others