



Polarization Maintaining MEMS Variable Optical Attenuator Normally Open (VOA)

980nm FCAPC



- **Product Description**

Idealphotonics' polarization-maintaining MEMS variable optical attenuator (VOA) is driven by a micro-electromechanical MEMS chip and utilizes electrostatic drive to rotate the reflector to achieve continuous adjustable attenuation of the input light. It has two types: bright state and dark state.



- **Product features**

Low insertion loss、 High attenuation, continuously adjustable、 High repeatability and long service life、 Small size、 Complies with GR-1209 and GR-1221 standards

- **Part Number**

MP-VOA-MEMS-980-1-9-PMA

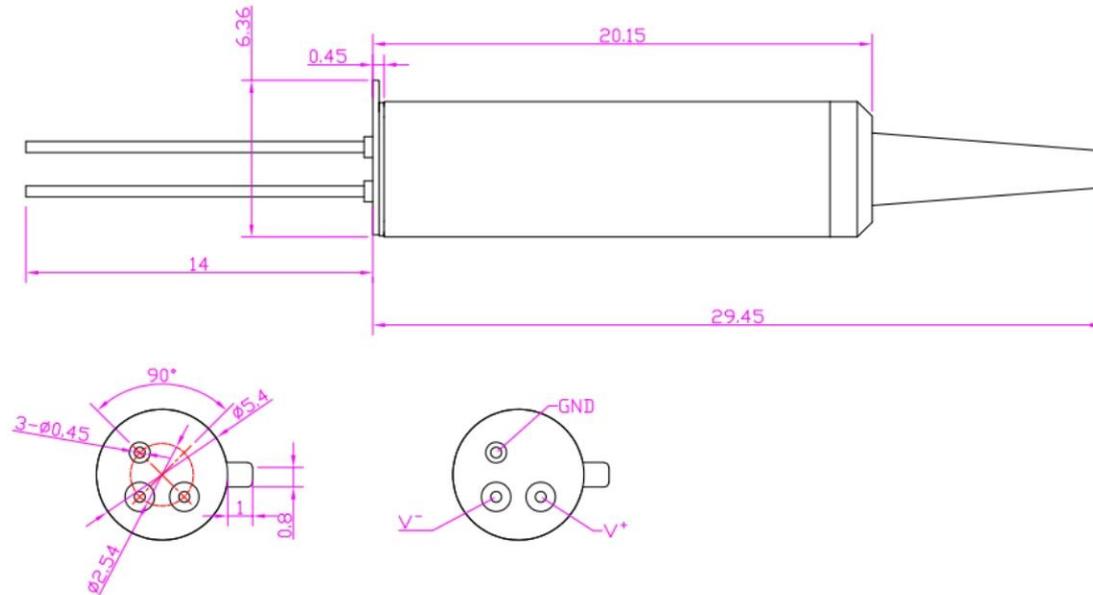
- **Application area**

Power Control in EDFA、 Wavelength Division Multiplexer (WDM) and Power Control in Configurable Networks

- **Core parameters**

Wavelength	Insertion Loss	Max.Power
980nm	≤1.2dB	≤500mW

● Dimension Drawing



● General Parameters

Main Specifications

Parameter	Unit	PM
Attenuation Type	nm	Normally Open
Wavelength	nm	980m
Extinction ratio	dB	≥ 16 db
Attenuation range	dB	≥ 40
Insertion Loss (IL)	dB	≤ 1.2
Return loss	dB	≥ 45
Repeatability	dB	≤ 0.03 dB@ATT ≤ 20 dB
Operating temperature	°C	-5~70
Storage temperature	°C	-40~85
Switching speed	ms	≤ 3
Life	Cycle	$\geq 1 \times 10^9$
Maximum optical power	mW	≤ 500



Parameter	Unit	PM
Driving voltage	V	0~7V
Fiber and Tubing Types	PM 980 (Panda type) / 0.9mm	
Fiber length	1m±0.05m	
Connector Type	FC/APC slow axis alignment	

Note: 1. The above test loss (IL) is based on the test results at 23°C;

2. Repeatability data is based on 100 cycle repeated test results.

Ordering information

MP-VOA-MEMS-□□□□-☆-△-XX

W□□□□:Wavelength

980:980nm

★:Pigtail Length

1:1m

△:Loose Tube

B:Bare Fiber

9:900um Loose Tube

20:2mm Loose Tube

XX:Fiber and Connector Type

PMA=PM Fiber+FC/APC

PMP=PM Fiber+FC/PC