1064nm Lithium Niobate Phase Modulator

Product Description

The 1064nm 300MHz Lithium Niobate Electro-Optic Phase Modulator uses proton exchange technology to fabricate the optical waveguide. It features a total electrode design and precise oblique coupling of input/output optical fibers with the waveguide. The modulator utilizes the electro-optic effect of lithium niobate material to perform phase modulation on the optical signal passing through the waveguide.

Product features

Bandwidth up to 300MHz、 Operating range: 950nm to 1150nm、 Low insertion loss, typically 4dB 、 Minimal back reflection 、 Polarization-maintaining fiber input and output

Part Number

MP-EOM-PM-300M-FA

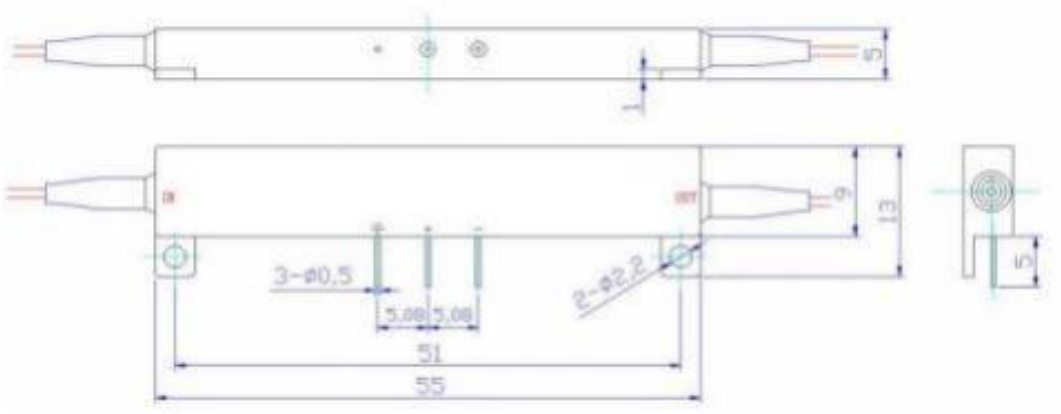
Application area

Coherent communications 、 Optical chirp 、 Optical sensing 、 FM spectroscopy 、 Frequency shift 、 Laser linewidth broadening

Core parameters

Operating Wavelength	Operating Frequency
950-1150nm	300MHz

Dimension Drawing



General Parameters

Main Parameters

(Electrical/Optical Characteristics at Tsub = 25°C, continuous wave bias unless otherwise specified)

Parameter		Value
Optical	Operating Wavelength	950-1150nm
	Insertion Loss	<4dB
	Return Loss	⩾45dB
	Polarization Extinction Ratio	⩾20dB
	Additional Intensity Modulation	⩽0.3%
	Max. Input Optical Power	100mw
Electrical	Operating Frequency	DC~300MHz
	Half-Wave Voltage @ 50kHz	⩽3V
	Max. Applied Voltage	+15V
Mechanical	Connector	3 PIN
	Fiber Type	PM980
	Fiber Length	1m or customizable

	Connector Type	FC/APC Or FC/UPC
	Axis Alignment	Slow Axis Alignment
Environmental	Operating Temperature	-10~ +65°C
	Storage Temperature	-45~ +85°C