Fiber Optical Phase Modulator 200 MHz 1550 nm





DATASHEET





This is a high performance, 200 MHz LiNbO3 phase modulator. It can provide phase modulation in a broad operation bandwidth with a low driving voltage. Its low insertion loss provides for maximum transmission power. This is fabricated with Annealed Proton Exchange (APE) optical waveguides, and uses polarization maintaining input and output fibers, making it easy to integrate with other optical components.

Features

- 1550 nm +/- 30 nm
- X-cut APE Process
- 200 MHz Bandwidth
- Low Drive Voltage
- Polarization Maintaining
- Low Optical Loss

Applications

- Coherent Communications
- Optical Chirping
- Optical Sensing
- FM Spectroscopy
- Frequency Shifting
- Laser Linewidth Broadening

Specifications

Parameter	Min	Typical	Max	Unit
Input Optical Power			100	mW
Operating Wavelength		1550		nm
Insertion Loss		3	3.5	dB
Chip Polarization Extinction Ratio	60			dB
Pigtail Polarization Extinction Ratio	20			dB
Optical Return Loss			-45	dB
S21 Bandwidth		200		MHz
Vπ @10GHz		2.0	2.5	٧
RF Input Power			20	Vpp
Impedance		High Z		Ω
Operating Temperature	-25		75	° C
Storage Temperature	-50		90	° C
Operating Humidity	0		90	%

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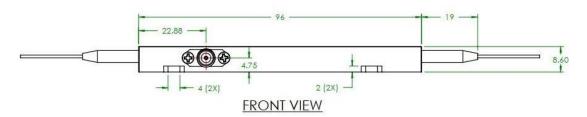
Fiber Optical Phase Modulator

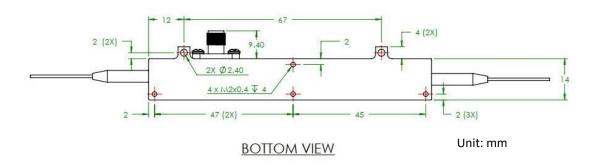






Dimensions (mm)





^{*}Product dimensions may change without notice. This is sometimes required for non-standard specifications.

Electrical Connection

PIN	Symbol	Description			
1	-	N/A			
2	-	N/A			
3	-	N/A			
4	•	N/A			
5	-	N/A			
6	-	N/A			
7	•	N/A			
RF	RF connector*	SMA Female			

Ordering Information

	2	1							
Prefix	Configuration		Wavelength	Frequency	Input Fiber	Output Fiber	Cable	Fiber Length	Connector
LNPM-	Phase = 2		1550nm =5	200MHz= 1	PM1550= 5	PM1550=5	0.9mm tube = 1	0.5m = 1 Special = 0	FC/APC = 3 FC/PC = 2 Special = 0