

Fiber Optical Phase Modulator

10 GHz, 1310 nm



DATASHEET

BUY NOW



The LNPM is a high-performance, fiber-coupled phase modulator with operating frequencies ranging from DC to 10GHzHz, covering the 1270-1370 wavelength band. It is constructed using optical waveguides on high efficient X-cut LiNbO₃ material and is coupled with polarization-maintaining input and output fibers.

Features

- 10GHz Bandwidth
- X-cut APE Process
- Low Insertion Loss
- Low Drive Voltage
- 1270 nm to 1370 nm
- Minimal Back Reflections
- Chip PER over 60dB

Applications

- Optical Chirping
- Research & Development
- Laser Linewidth Broadening
- FM Spectroscopy
- Frequency Shifting

Specifications

Parameter	Min	Typical	Max	Unit
Input Optical Power			50	mW
Operating Wavelength	1270		1370	nm
Insertion Loss			4	dB
Polarization Extinction Ratio	20			dB
Optical Return Loss	30			dB
S21 Bandwidth		8	10	GHz
V π @10GHz		8.8		V
RF Input Power			30	Vpp
Impedance		50		Ω
Operating Temperature	-55		75	$^{\circ}$ C
Storage Temperature	-60		90	$^{\circ}$ C
Operating Humidity	0		90	%

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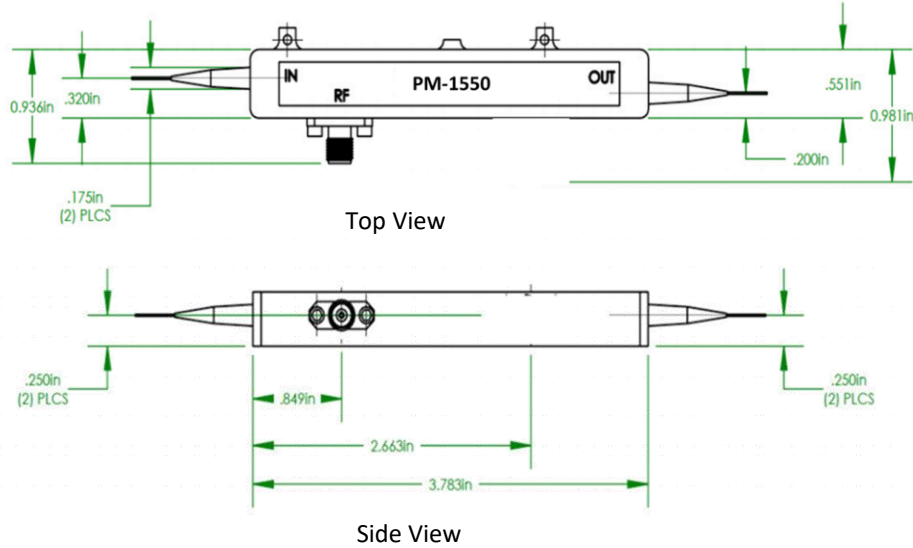
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Dimensions (mm)



Unit: 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*	K Connector

Ordering Information

Prefix	Configuration	Wavelength	Frequency	Input Fiber	Output Fiber	Cable	Fiber Length	Connector
LNPM-	Phase = 2	1310nm = 3	10GHz = 2	PM 1310 = 3	PM 1310 = 3	0.9mm Tube = 1	0.5m = 1 Special = 0	FC/APC = 3 FC/PC = 2 Special = 0