



DEVICE 1064 nm Phase Modulator, 200 MHz

OVERVIEW

The Optilab PM-1064-0.2-S is a high performance, 200 MHz LiNbO3 phase modulator. It can provide phase modulation in a broad operation bandwidth with a ultra low driving voltage. Its low insertion loss provides for maximum transmission power. The PM-1064-0.2-S 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. Contact Optilab for more information.

FEATURES

• 1030 nm to 1070 nm

X-cut APE Process

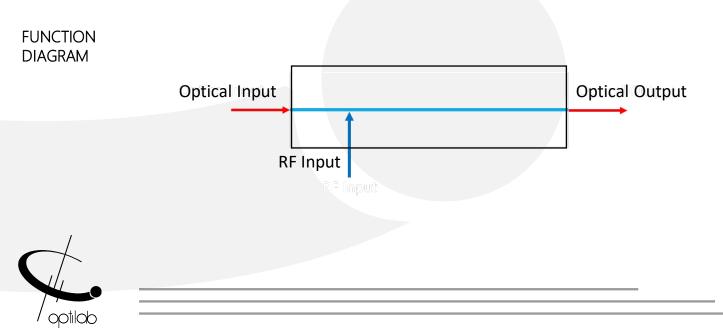
• 200 MHz Bandwidth

- Ultra Low Drive Voltage
- Polarization Maintaining
- Low Optical Loss

USE IN

- Coherent Communications
 - Optical Chirping
- Optical Sensing

- FM Spectroscopy
- Frequency Shifting
- Laser Linewidth Broadening





PM-1064-0.2-S

SPECIFICATIONS

GENERAL

Input Optical Power	300 mW max
Operating Wavelength	1030 nm to 1070 nm
Insertion Loss	3.0 dB typical, 3.5 dB max
Chip Polarization Extinction Ratio	> 60 dB
Pigtail Polarization Extinction Ratio	≥ 20 dB
Process	Annealed Proton Exchange
Optical Return Loss	≤ -45 dB
S ₂₁ Bandwidth	100 MHz typical 🛽 -3dB, 200 MHz usable
νπ	1.3V typ., 1.6V max. 🗉 10 kHz
RF Input Voltage	10 Vpp max
Impedance	High Z

MECHANICAL

Operating Ter	nperature	-25°C to + 75°C
Storage Temp	erature	-50 °C to +90 °C
Operating Hu	midity	0% to 90% Relative Humidity
Input Fiber		Panda, PM98-U40D, slow axis aligned to TE Mode
Output Fiber 1	уре	Panda, PM98-U40D, slow axis aligned to TE Mode
Input Connect	or	PM FC/APC, key aligned to slow axis
Output Conne	ector	PM FC/APC, key aligned to slow axis
RF Port Conne	ectors	SMA Female
Cabling		900 µm loose tubing
Dimension		96mm x 14mm x 8.6mm



