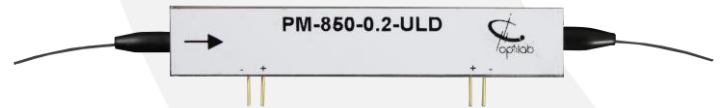


PM-850-0.2-ULD



DEVICE

850 nm, 200 MHz Phase Modulator

OVERVIEW

The Optilab PM-850-0.2-ULD is a 200 MHz LiNbO₃ based phase modulator designed for 850 nm. This modulator can provide phase modulation with an ultra low driving voltage. Its low insertion loss provides for its maximum transmission power. The PM-850-0.5 modulator uses polarization maintaining (PM) input and output fibers, making it easy to integrate with other optical components. Contact Optilab for more information.

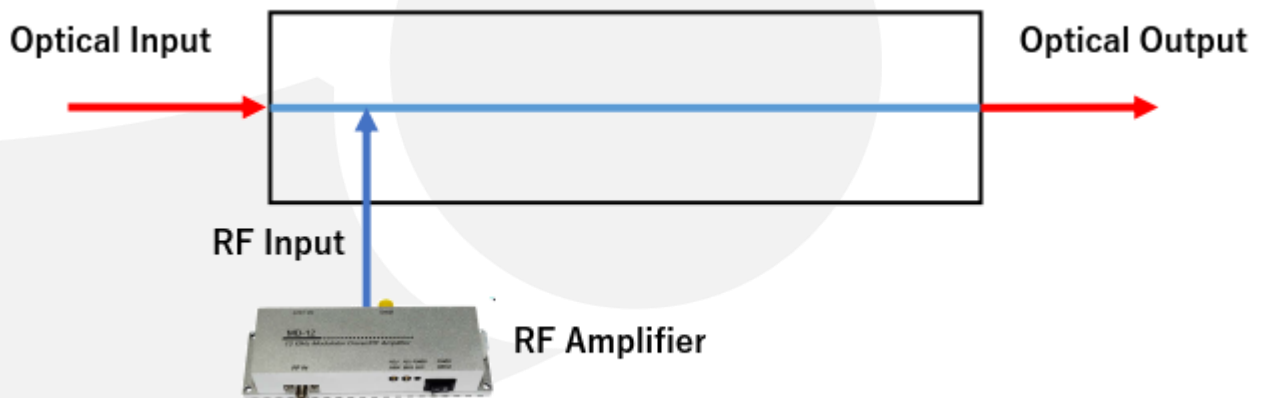
FEATURES

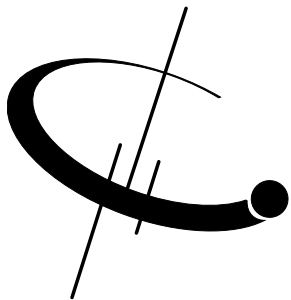
- Up to 200 MHz Bandwidth
- Compact Size
- 850 nm operating wavelength
- Ultra Low Drive Voltage
- Minimal Back Reflections
- Polarization Maintaining

USE IN

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

FUNCTIONAL DIAGRAM





PM-850-0.2-ULD

SPECIFICATIONS

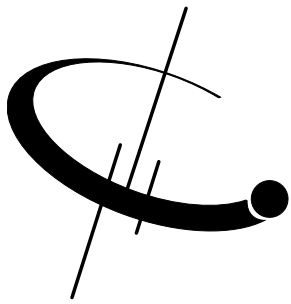
GENERAL

Input Optical Power	20 mW max.
Operating Wavelength	850 ± 20 nm
Insertion Loss	3.0 dB typ., 4 dB max.
Polarization Extinction Ratio	≥ 20 dB
Optical Return Loss	≤ -40 dB
S21 Bandwidth	150 MHz typ. @ -3 dB
RF V _π	1.1 V typ. @ 100 MHz
RF Input Impedance	10 k ohm typ. (High-Z)
Maximum Input Voltage	+/- 20 V

MECHANICAL

Operating Temperature (Standard)	5 °C to +75 °C
Storage Temperature	-40 °C to +85 °C
Operating Humidity	0% to 90% Relative Humidity
Input/Output Fiber Type	Corning PM85-U400
Input/Output Connector	PM FC/APC, Key aligned to narrow key
Material	LiNbO ₃
Cabling	None
Dimensions	65 mm x 11.5 mm x 5.8 mm

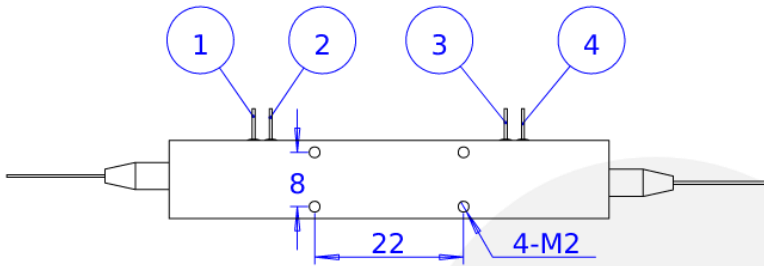
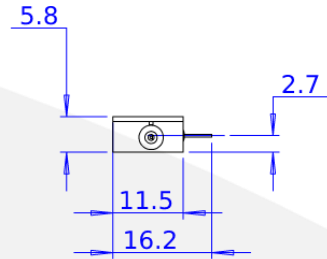
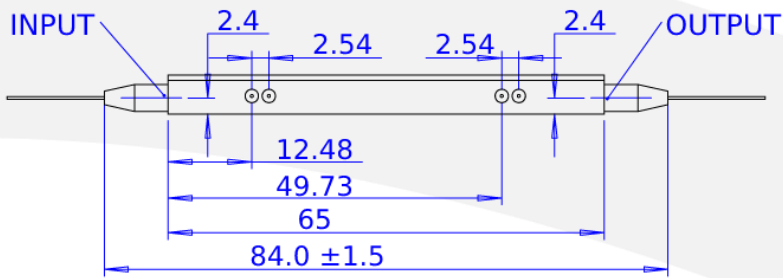
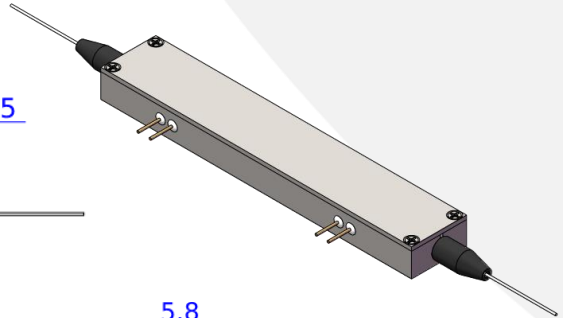
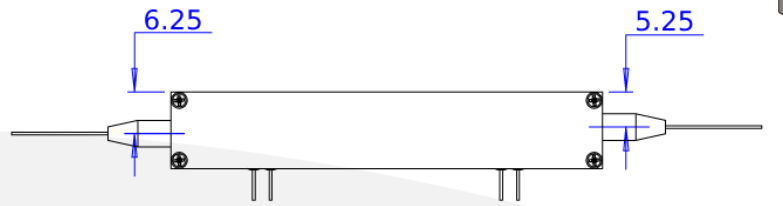




PM-850-0.2-ULD

MECHANICAL DRAWING

Unit: mm



Pin	Description
1	V-
2	V+
3	V+
4	V-

