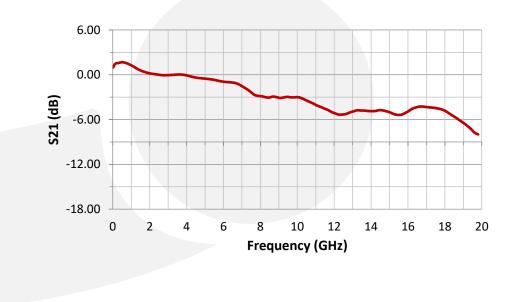
	• PM-1550-10			
DEVICE	10 GHz 1550 nm Phase Modulator			
OVERVIEW	The Optilab PM-1550-10 phase modulator is a high performance, 10 GHz LiNbO3 modulator. This modulator can provide phase modulation with x-cut Annealed Proton Exchange (APE) process. Its low insertion loss provides for its maximum transmission power. The PM-1550-10 modulator uses polarization maintaining (PM) input and output fibers, making it easy to integrate with other optical components. Contact Optilab for more information.			
FEATURES	 10 GHz Bandwidth Low Optical Loss Low Drive Voltage 1525 nm to 1565 nm Minimal Back Reflections Polarization Maintaining 			
USE IN	 Coherent Communications Optical Chirping Optical Sensing FM Spectroscopy Frequency Shifting Laser Linewidth Broadening 			
FUNCTIONAL DIAGRAM				
Optical Input Optical Output				
optilob	RF Input RF Amplifier (RFA-9) More details in the page 4			

Product specifications and description are subject to change without notice. © 2021 Optilab, PM-1550-10. June 2022 Rev. 1.2



SPECIFICATIONS	Input Optical Power	40 mW max.
	Operating Wavelength	1525 nm to 1570 nm
	Insertion Loss	3 dB typ., 3.5 dB max.
	Polarization Extinction Ratio	≥ 21 dB
	Optical Return Loss	≥ 30 dB
GENERAL	S21 Bandwidth	9 GHz typ. @ -3 dB
	S11 Return Loss	≤ -10 dB @ 5 GHz
	$\forall \pi$	10.5 V typ., 11 V max @ 1 GHz 17 V typ., 18 V max @ 10 GHz
	RF Input Power	+30 dBm max.
	Impedance	50 Ω typ.

Operating Temperature	-55°C to +75°C
Storage Temperature	-60°C to +90°C
Operating Humidity	0% to 90% Relative Humidity
Input/Output Fiber	Panda – PM 1550
Input/Output Connector	PM FC/APC, request for others
RF Port Connectors	K Connector
Cabling	900 um tubing
Dimensions	3.783" x 0.981" x 0.640"



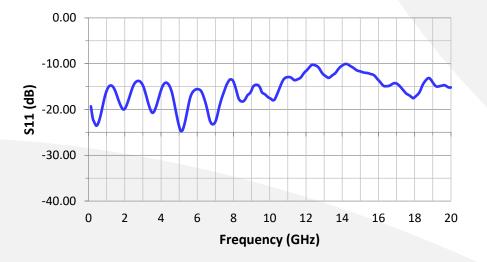
optilob

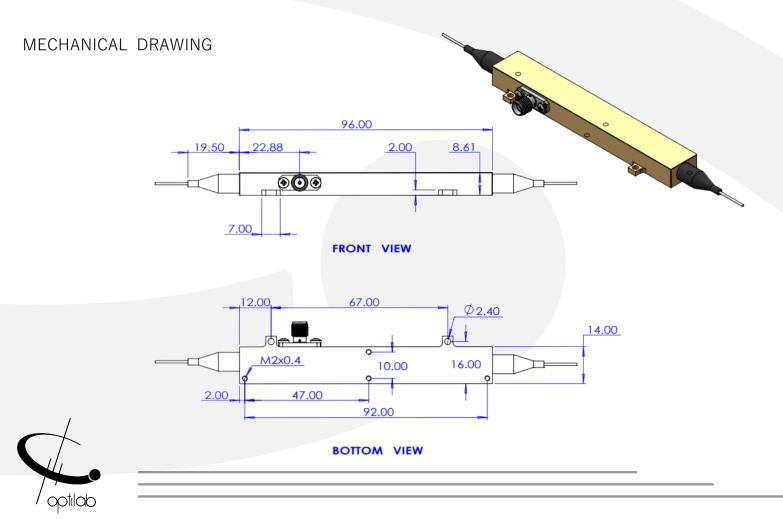
TYPICAL

S21 RESPONSE



TYPICAL S11 RESPONSE







Available Accessories

RFA-9



The Optilab RFA-9 is a high gain RF amplifier module with 30dBm output and 10V peak to peak. It offers costeffective solutions for microwave and analog link. Please contact Optilab for more detail.

