

ROF-PM-2000 Series

2000nm High-speed electro-optic phase modulator

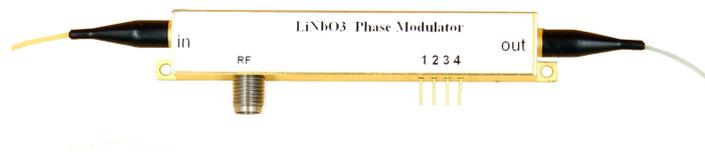
The ROF-PM-2000 series 2000nm lithium niobate (LiNbO₃) electro-optic phase modulator utilizes proton exchange technology for optical waveguide fabrication, with direct coupling between input/output fibers and waveguides. It features low insertion loss, flat response bandwidth, and low half-wave voltage, and is primarily used in fiber lasers, laser communication, high-energy lasers, and other fields.

Feature

- Low insertion loss
- Low half-wave voltage
- High polarization extinction ratio
- SMA shielded input

Application

- 2um fiber laser
- PDH laser frequency stabilization
- Laser coherent combining
- Laser communication



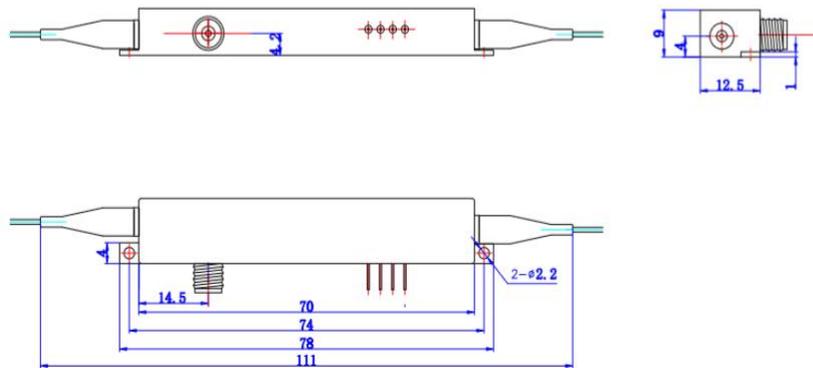
Parameter

Parameter	Symbol	Min	Typ	Max	Unit
Optical parameters					
Operating wavelength	λ	1950	2000	2050	nm
Insertion loss	IL		3.5	4.5	dB
Optical return loss	ORL			-45	dB
Optical fiber	input terminal		Panda PM		
	output end		Panda PM		
Fiber optic interface		FC/PC、FC/APC 或用户指定			
Electrical parameters					
operating frequency	S_{21}	DC~200			MHz
V_{π} @ 50KHz	V_{π}		4.5	5.0	V
Matching impedance	Z_{RF}	>1M			Ω
electrical interface		SMA(f)			

Limit Conditions

Parameter	Symbol	Unit	Min	Typ	Max
Input optical power @2000nm	$P_{in,Max}$	dBm			20
RF terminal input voltage		V	-20		20
Operating Temperature	T_{op}	°C	0		70
Storage temperature	T_{st}	°C	-40		85
Humidity	RH	%	5		90

Package size (mm)



Overall Dimension Drawing

Order information

ROF	PM	W	B	F	C
	Modulator type: PM - Phase Modulator	Operating wavelength: 2000---2000nm	Operating bandwidth: 200M---200MHz	Input and output optical fibers: PP---PM/PMF	Connector: FA---FC/APC FP---FC/PC SP - User-specified

*If you have any special requirements, please contact our sales personnel