

# ROF-PM-20



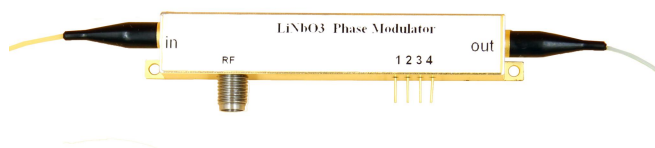
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## 2000nm Phase modulator

ROF-PMseries 2000nm lithium niobate electro-optic phase modulator adopts advanced titanium diffusion technology, with low insertion loss, high modulation bandwidth, low half-wave voltage and other characteristics, mainly used in space optical communication system, laser coherence, spectrum broadening, interferometry and other fields.

### Features

- High modulating bandwidth
- Low half-wave voltage
- High damage light power
- Low insertion loss
- High stability



### Applications

- Space optical communication system
- Cesium atomic time reference
- The spectral broadening
- Interferometry

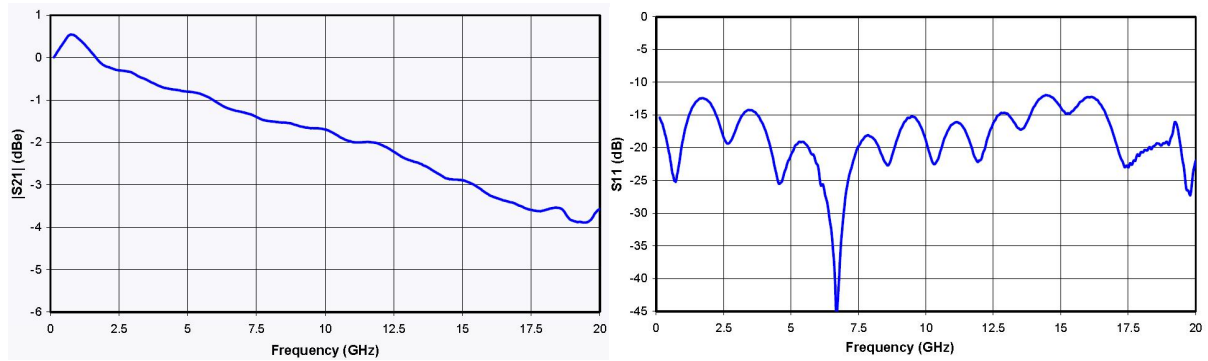
### Performance parameter

Parameter		Symbol	Min	Typ	Max	Unit
Optical parameters						
Operating wavelength		$\lambda$	1900	2000	2200	nm
Insertion loss		IL	-	3	5	dB
Optical return loss		ORL	-40	-45	-	dB
Optical fiber	Input port		Nufern PM1950			
	output port		Nufern PM1950			
Optical fiber interface			FC/PC、FC/APC Or user to specify			
Electrical parameters						
Operating bandwidth (-3db)		S <sub>21</sub>	0.15		10	GHz
RF half wave voltage V <sub>pi</sub>		V <sub>π@50KHz</sub>	-	5	-	V
Electric return loss		S <sub>11</sub>	-	-12	-10	dB
RF terminal input impedance		Z <sub>RF</sub>	-	10	-	Ω
Electrical interface			K(f)			

## Limit Conditions

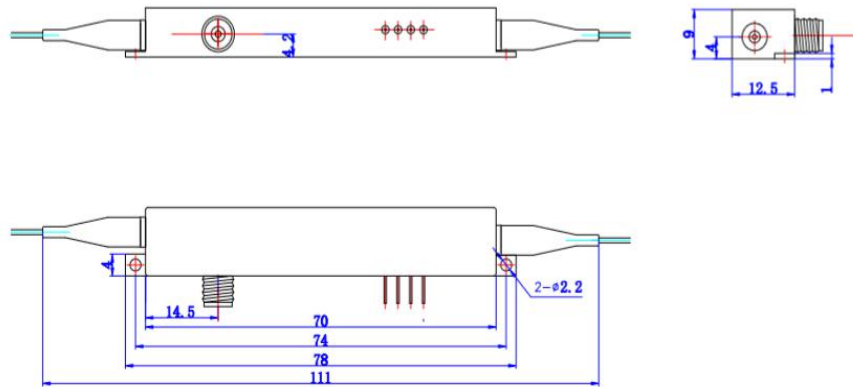
Parameter	Symbol	Min	Typ	Max	Unit
Input optical power	$P_{in,Max}$	dBm			20
Input RF power		dBm			28
Operating temperature	Top	°C	-10		60
Storage temperature	Tst	°C	-40		85
Humidity	RH	%	5		90

## Characteristic curve



S<sub>11</sub>&S<sub>21</sub>Curve

## Mechanical Diagram(mm)



## Order information

ROF	PM	20	XX	XX	XX
	Modulator type: PM---Phase modulator	Working wavelength: 20---2000nm	Operating bandwidth: 150M---150MHz 10G---10GHz	Optical fiber: PS---PM/SMF PP---PM/PM	Facet: FA---FC/APC FP---FC/PC SP---User's customization

\*please contact our sales if you have special requirements.