

# ROF-PM



www.rof-oc.com

## 780nm Phase modulator

**ROF-PM series 780nm lithium niobate electro-optic phase modulator** adopts advanced proton exchange technology, with low insertion loss, high modulation bandwidth, low half-wave voltage and other characteristics, mainly used in space optical communication system, cesium atomic time reference, spectrum broadening, interferometry and other fields.

### Features

- High modulating bandwidth
- Low half-wave voltage
- Low insertion loss

### Applications

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



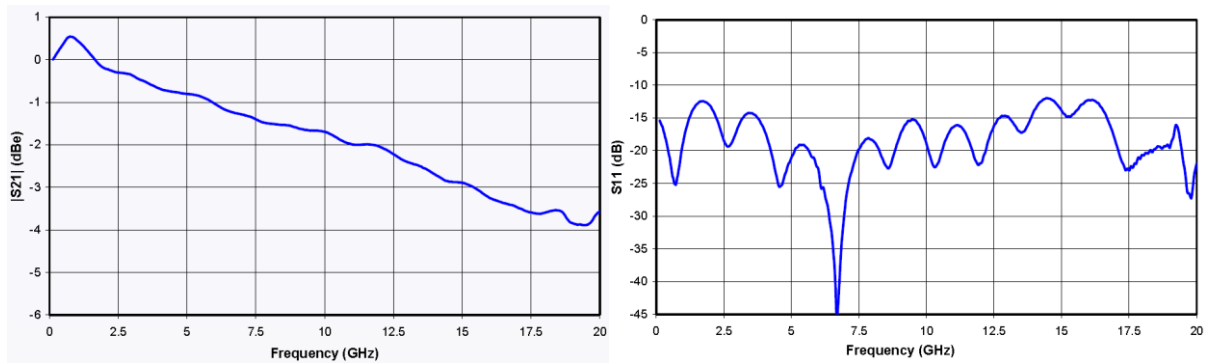
### Performance parameter

Parameter		Symbol	Min	Typ	Max	Unit
Optical parameters						
Operating wavelength		$\lambda$	760	780	800	nm
Insertion loss		IL	-	2.8	3	dB
Optical return loss		ORL	-	-	-45	dB
Optical fiber	Input port		PM 780 Panda fiber			
	output port		PM 780 Panda fiber			
Optical fiber interface			FC/PC、FC/APC Or user to specify			
Electrical parameters						
Operating bandwidth (-3db)		S <sub>21</sub>		10	12	GHz
Bandwidth fluctuation		$\Delta S_{21}$	-	0.5	1	dB
RF half wave voltage V <sub>pi</sub>		V <sub><math>\pi</math>@50KHz</sub>		2.0	2.5	V
Electric return loss		S <sub>11</sub>		-12	-10	dB
RF terminal input impedance		Z <sub>RF</sub>	50			$\Omega$
Electrical interface			K(f)			

### Limit

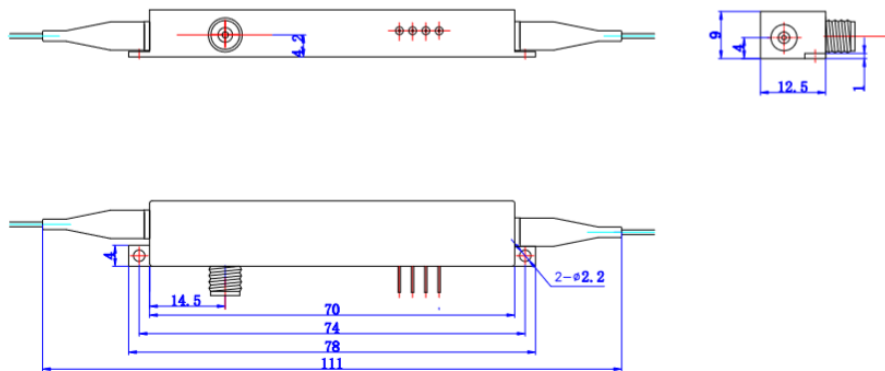
Parameter	Symbol	Min	Typ	Max	Unit
Input optical power@780nm	$P_{in,Max}$	mW			5
Input RF power		dBm			28
Operating temperature	Top	°C	-10		60
Storage temperature	Tst	°C	-40		85
Humidity	RH	%	5		90

### Characteristic curve



$S_{11}$ & $S_{21}$  Curve

### Mechanical Diagram(mm)



### Order information

ROF	PM	07	XX	XX	XX
	Modulator type: PM---Phase modulator	Working wavelength: 07---780nm	Operating bandwidth: 10G---10GHz	Optical fiber: PP---PMF/PMF	Facet: FA---FC/APC FP---FC/PC SP---User's customization

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