

ROF-PM-UV



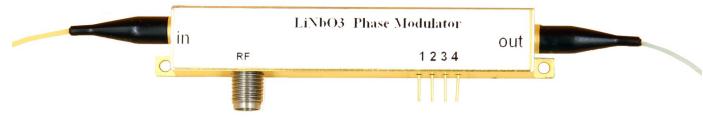
Low-Vpi phase modulator

www.rof-oc.com

ROF-PM-UV series Low-Vpi phase modulator has low half-wave voltage (2.5V), low insertion loss, high bandwidth, high damage characteristics of optical power, chirp in high-speed optical communication system is mainly used for light control, phase shift of coherent communication system, sideband ROF system and reduce the simulation of optical fiber communication system in Brisbane deep stimulated scattering (SBS), etc.

Features

- High endurance light power
- Low half-wave voltage~2.5V
- Low insertion loss
- High modulating bandwidth



Applications

- Optical fiber sensing
- Optical fiber communication, laser coherent synthesis
- Phase delay (shifter)
- Quantum communication
- ROF system

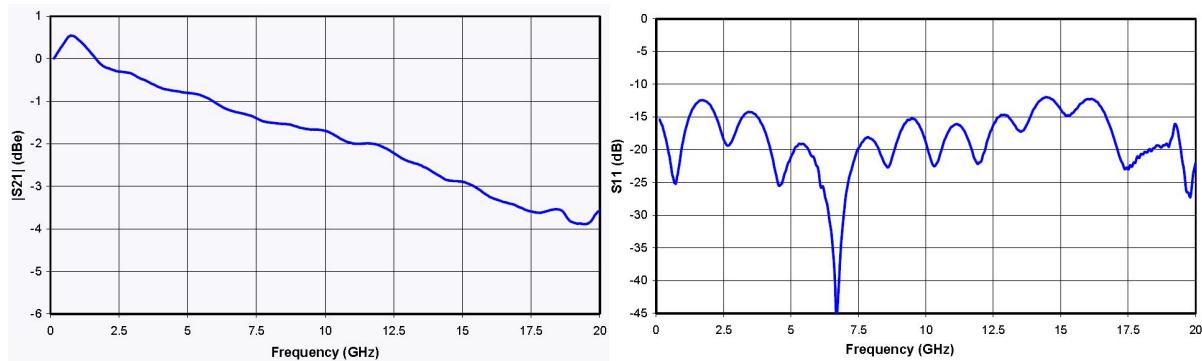
Performance parameter

Parameter	Symbol	Min	Typ	Max	Unit			
Optical parameters								
Operating wavelength	λ	1525		1565	nm			
Insertion loss	IL		3	3.5	dB			
Optical return loss	ORL			-45	dB			
Optical fiber	Input port		Panda PM					
	output port		Panda PM					
Optical fiber interface		FC/PC、FC/APC Or user to specify						
Electrical parameters								
Operating bandwidth (-3dB)	S_{21}	10	12		GHz			
RF Half-wave voltage (Each electrode)	@50KHz	V π	2.4	2.5	2.6 V			
	@10GHz	V π	3.4V		3.7 V			
Electrical return loss	S_{11}		-12	-10	dB			
RF Input impedance	Z_{RF}	50			Ω			
Electrical interface		SMA(f)						

Limit Conditions

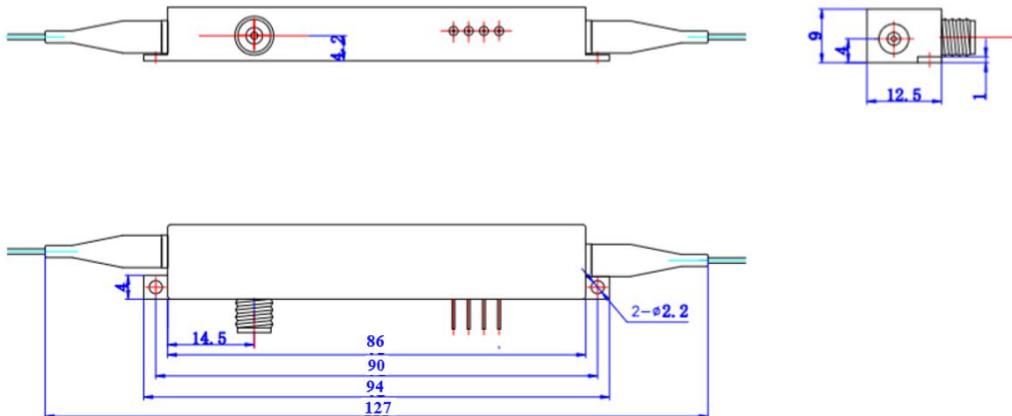
Parameter	Symbol	Min	Typ	Max	Unit
Input optical power	P _{in,Max}	dBm			20
Input RF power		dBm			28
Operating temperature	Top	°C	-10		60
Storage temperature	Tst	°C	-40		85
Humidity	RH	%	5		90

Characteristic curve



S₁₁&S₂₁ Curve

Mechanical Diagram(mm)



Order information

ROF	PM-UV	15	10G	XX	XX
	Modulator type: PM---Phase modulator UV---Low-Vpi	Working wavelength: 15---1550nm	Operating bandwidth: 10G---10GHz	Optical fiber: PS---PM/SMF PP---PM/PMF	Facet: FA---FC/APC FP---FC/PC SP---用户指定

*please contact our sales if you have special requirements.