



ROF-PM-UV

Low-V_{pi} phase modulator

ROF-PM-UV series Low-V_{pi} phase modulator has low half-wave voltage (2.5 V) , 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

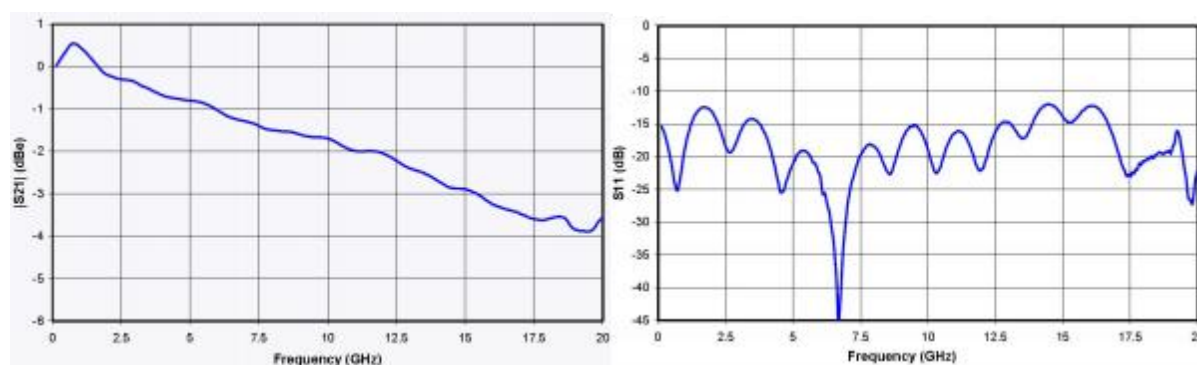
Parameter		Symbol	Min	Typ	Max	Unit
Optical parameters						
Operating wavelength		λ	1525		1565	nm
Insertion loss		IL		3	3.5	dB
Optical return loss		ORL			-45	dB
Optical fiber	Input port		Panda PM			
	output port		Panda PM			
Optical fiber interface			FC/PC 、 FC/APC Or user to specify			
Electrical parameters						
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)			



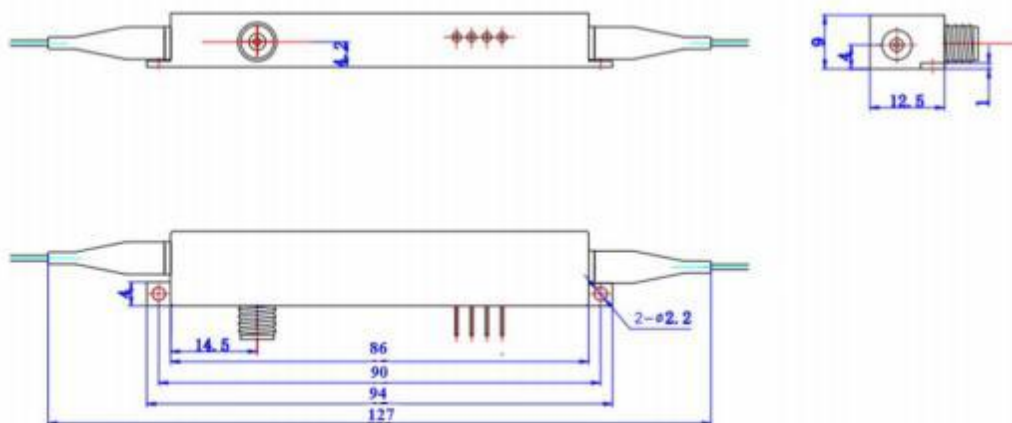
Limit Conditions

Parameter	Symbol	Min	Typ	Max	Unit
Input optical power	$P_{in,Max}$	dBm			20
Input RF power		dBm			28
Operating temperature	T_{op}	°C	-10		60
Storage temperature	T_{st}	°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.