

Independent polarization PM

ROF-IDPM series not polarization LiNbO₃ phase modulator adopts advanced titanium diffusion process, can realize the dual polarization modulation at the same time with low insertion loss, low half-wave voltage, high damage characteristics of optical power, chirp control in high-speed optical communication system is mainly used for light, quantum secret communication system and optical fiber sensors.

Features

- Dual polarization modulation
- Low half-wave voltage
- High damage light power
- Low insertion loss

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		3.8	4	dB
Optical return loss		ORL			-45	dB
Optical fiber	Input port		SMF-28			
	output port		SMF-28			
Optical fiber interface			FC/PC、FC/APC Or user to specify			
Electrical parameters						
Operating bandwidth（-3dB）		S ₂₁		300		MHz
RF Half-wave voltage		V π		4.5	5	V
Electrical return loss		S ₁₁		-12	-10	dB
RF Input impedance		Z _{RF}	10000			Ω
Electrical interface			3pin（GND, +, -）			

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

订货信息

ROF	IDPM	XX	XX	XX	XX
	Independent polarization phase modulator	Working wavelength: 15---1550nm	Operating bandwidth: 300M---300MHz 10G---10GHz	Optical fiber: SS---SM/SM	Facet: FA---FC/APC FP---FC/PC SP---User's customization

*please contact our sales if you have special requirements.