

ROF-IDPM



Independent polarization PM

www.rof-oc.com

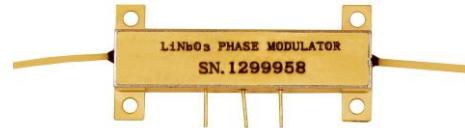
ROF-IDPM series not polarization LiNbO₃ phase modulator adopts advanced titanium diffusion process, can realize the dual polarization modulation at the same time with low insertion loss, low half-wave voltage, high damage characteristics of optical power, chirp control in high-speed optical communication 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	$V\pi$		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.