

1550nm high-speed electro-optic phase modulator

Product description

The lithium niobate electro-optic phase modulator based on titanium diffusion technology has the characteristics of low insertion loss, high modulation bandwidth, low half wave voltage, and high damage optical power Point, mainly used for optical chirp control in high-speed optical communication systems, phase shift in coherent communication systems, generation of sidebands in ROF systems, and mode reduction

In the field of stimulated Brillouin scattering (SBS) in quasi fiber optic communication systems.

Product Features

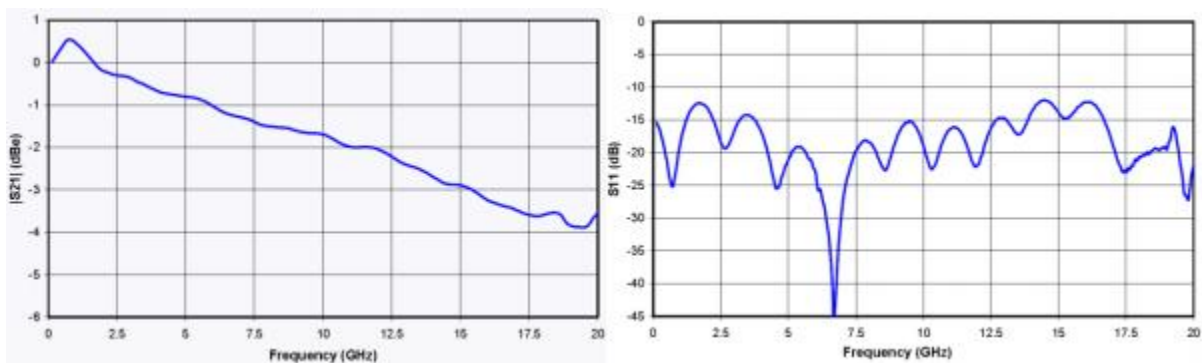
- Modulation bandwidth~10GHz
- Low half wave voltage
- High damage optical power
- Low insertion loss

Product Application

- Fiber optic sensing and communication
- Laser coherent synthesis
- Phase delay (shifter)
- Quantum communication
- ROF system

parameter		symbol	Min	Typ	Max	unit
Optical parameters						
Working wavelength		λ	1525		1565	nm
insertion loss		IL		3	3.5	dB
Optical return loss		ORL			-45	dB
fiber type	input		Panda PM			
	output		Panda PM			
Fiber connectors			FC/PC 、 FC/APC or other			
Electrical Parameters						
3dB bandwidth	OF-PM-15-10G	S21	10	12		GHz
Vpi @ 50KHz	OF-PM-15-10G	V π		3.2	4	V
Electric return loss		S11		-12	-10	dB
Matching impedance	OF-PM-15-10G	ZRF	50			Ω
Electrical interface	OF-PM-15-10G		SMA(f)			

parameter	symbol	Min	Typ	Max	unit
Input optical power	Pin,Max	dBm			20
RF input power		dBm			28
Operating temperature	Top	°C	-10		60
Storage temperature	Tst	°C	-40		85
humidity	RH	%	5		90



S11&S21 curves

