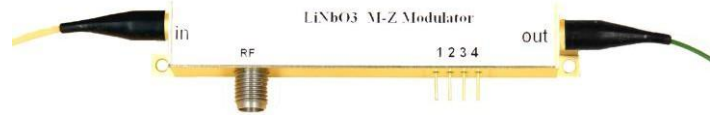




Rof-AM 1064nm Intensity Modulator

Rof-AM series 1064nm lithium niobate electro-optic intensity modulator adopts advanced proton exchange technology. It has the characteristics of low insertion loss, high modulation bandwidth, low half-wave voltage and so on, and mainly used in space optical communication system, cesium atomic time reference, pulse generator, quantum optics and other fields.

- Low insertion loss
- High damage power
- Low half-wave voltage
- High stability



Applications

- Fiber optic sensing system
- Pulsed light modulation system

Features

- Pulse light generator
- Analog transmission link

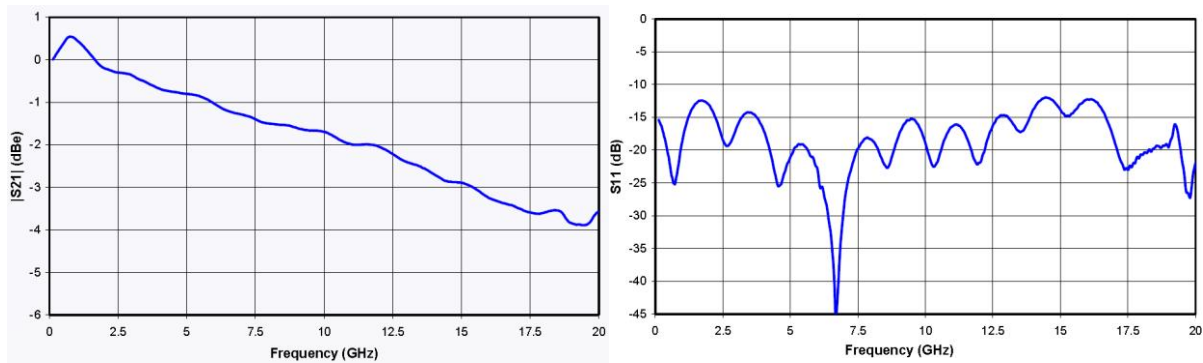
Performance parameter

Parameter	Symbol	Min	Typ	Max	Unit
Optical parameters					
Operating wavelength	λ	980	1060	1150	nm
Insertion loss	IL	-	4	5	dB
Optical return loss	ORL	-40	-45	-	dB
Switch extinction ratio@DC	ER@DC	20	23	-	dB
Dynamic extinction ratio	DER	12	13		dB
Optical fiber	Input port	PM fiber 980 nm			
	output port	PM fiber 980 nm			
Optical fiber interface		FC/PC、FC/APC Or user to specify			
Electrical parameters					
Operating bandwidth (-3dB)	S_{21}	300			MHz
Half-wave	RF	$V\pi$	3	3.5	V
Electrical return loss	S_{11}		-12	-10	dB
Input impedance	RF	Z_{RF}	50		Ω
	Bias	Z_{BIAS}	1M		Ω
Electrical interface		SMA			
Bias pin definition		1,2-Bias 3,4- N/C			

Limit Conditions

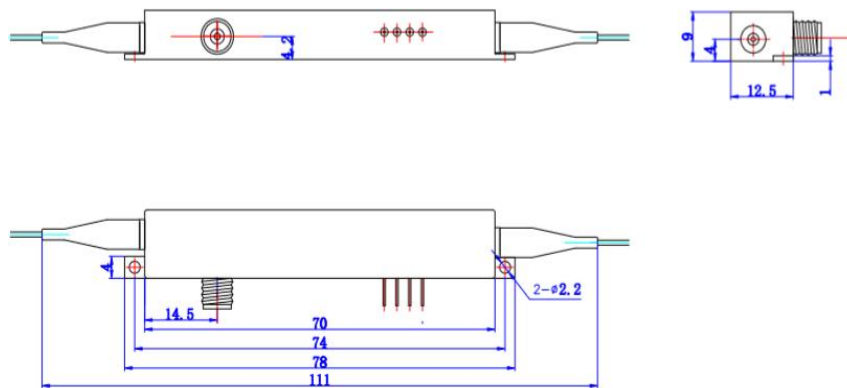
Parameter	Symbol	Unit	Min	Typ	Max
Input optical power	$P_{in,Max}$	dBm			20
Input RF power		dBm			28
Bias voltage	Vbias	V	-20		20
Operating temperature	Top	°C	0		70
Storage temperature	Tst	°C	-40		85
Humidity	RH	%	5		90

Characteristic curve



S_{11} & S_{21} Curve

Mechanical Diagram(mm)



Order information

Rof	AM	10	XX	XX	XX
	Modulator type: AM---Intensity modulator	Working wavelength: 10---1064nm	Operating bandwidth: 300M---DC-300MHz 2.5G---2.5GHz 10G---10GHz	Optical fiber: PP---PM/PM	Facet: FA---FC/APC FP---FC/PC SP---User's customization

*please contact our sales if you have special requirements.