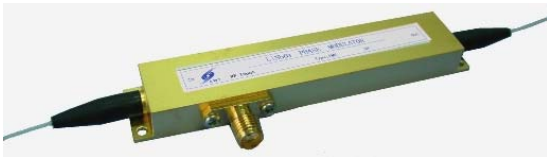


LiNbO₃ Phase Modulator



➤ Key Capability

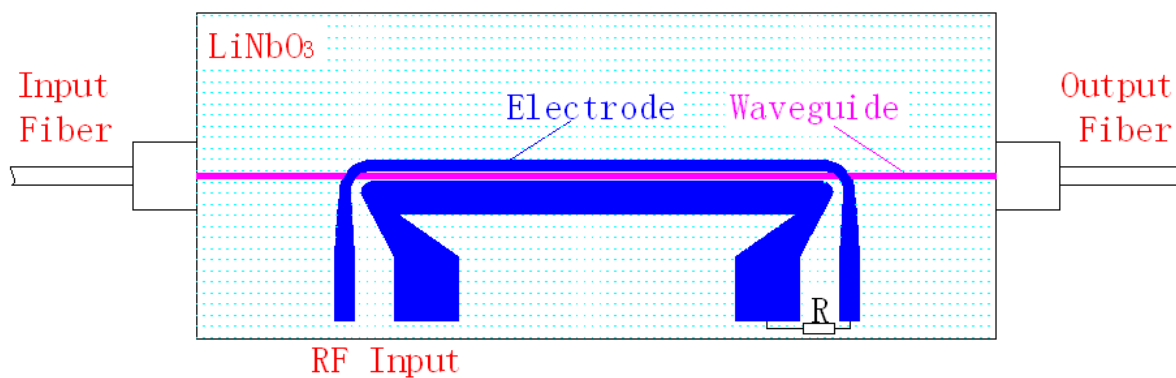
- ✧ Low insertion loss provides long transmission span
- ✧ Low drive voltage
- ✧ Small packaging and light weight
- ✧ Excellent long-term stability
- ✧ Meet Telcordia GR-468-CORE Requirement

SWT's LiNbO₃ phase modulator, made with the proton exchange or Ti-indiffusion method. It features low insertion loss, low drive voltage, low back reflection, wide wavelength range, and high efficiency. It is ideal for optical chirp control in high speed fiber communication systems, high-speed phase control for sensor systems, phase shift key modulation for coherent communication systems, optical frequency shifting for measurement systems, and stimulated Brillouin scattering (SBS) reduction for analog fiber optic systems.

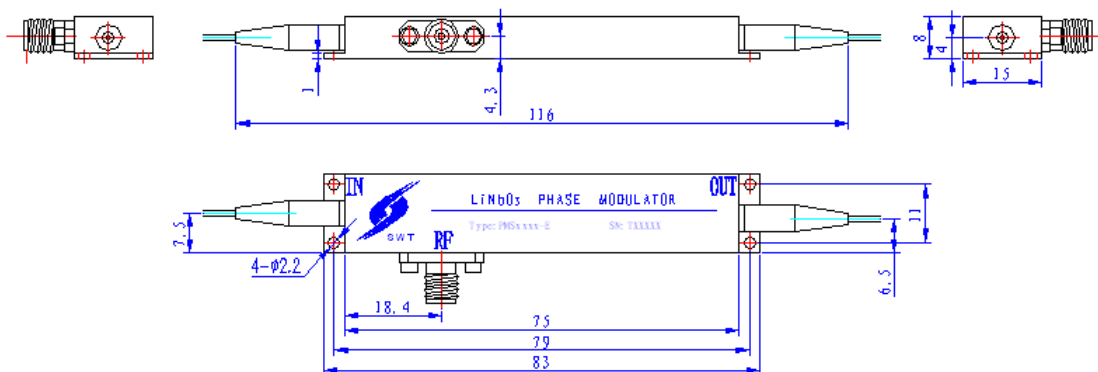
➤ Applications

- ✧ Optical Chirping
- ✧ CATV
- ✧ Coherent Communication
- ✧ Optical Sensors
- ✧ Quantum Cryptography

➤ **Device Schematic:**



➤ **Package Outline:(PMS13**-EX, PMS15**-EX)**



➤ **Specifications(23°C)**

Parameter		Unit	Values	
Optical	Operating Wavelength	nm	1310	1550
	Insertion Loss	dB	≤3.5	
	Input Optical Power	mW	≤200(APE process)	
			≤50(Ti process)	
	Optical Return	dB	≥45	
Additional Intensity Modulating	-	≤0.3%		
Electrical	Half wave Voltage(@1KHz)	V	≤3.5	≤5.0
	S11 Return Loss	dB	≤-12	
	Applied RF Power	dBm	≤30	
	Bandwidth(*)	GHz	≥6	
Mechanical	Electrical connector	-	SMA	
	Pigtail type	-	PM or SM Fiber	
Environmental	Operating Temperature	°C	0~+70	
	Storage Temperature	°C	-40~+85	

(*)Bandwidth>10GHz option.

We can provide different pigtail and package by customer requirement.

For more information on this or other products and their availability, please contact us.

Sales Contact: Sales@swt-oc.com Technical Contact: Supports@swt-oc.com

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