1310nm/1550nm $LiNbO_3$ Phase Modulator

Key Capability

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

This $LiNbO_3$ phase modulator, made with the proton exchange method, has very high polarization selectivity. 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. With polarization-maintaining optical fiber as its input and single mode fiber as its output, the device can be easily connected to high power lasers with PM fiber outputs.

Applications

Optical Chirping
CATV
Coherent Communication
Optical Sensors

Characteristics

Operating Wavelength	nm	1290~1330
		1530~1570
Insertion Loss	dB	≤5
Optical Return Loss	dB	≥45
Intensity Modulation	--	0.1%
Vπ@DC	V	≤5
Operating Temperature	℃	0~70
Storage Temperature	℃	-40~80
Input & Output Fiber	SM or PM Fiber	

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