

BUY NOW 

GHz Resonant Optical Phase Modulator (1-3.05 GHz, temperature control option)

(Protected by U.S. patents 7,403,677B1; 6,757,101B2; and pending patents)

Product Description

The GHz Resonant Optical Phase Modulator provides high speed free space optical phase modulation based on an electro-optical technology. It integrates a resonance electrical circuit inside the package to facilitate low driving voltage. The device can be driven by a function generator. It further integrated TEC temperature controller for stable operation.



Features

- Solid-State
- High speed
- Ultra-high reliability
- Low insertion loss
- Compact

Performance Specifications

GHz Resonant Modulator	Min	Typical	Max	Unit
Resonance Frequency	1.1		3.05	GHz
Bandwidth		3.8		MHz
Q Factor		325		
Required RF Power (1rad@400nm)		35		dBm
Max RF Power			2	W
Optical Aperture		3x3		mm ²
Max Optical Power			1	W/mm ²
Optical Wavelength	300		500	nm
Operating Temperature ^[1]		5		°C
Storage Temperature	-40		85	°C

[1] TEC actively cooled

Applications

- Optical blocking
- Configurable operation
- Instrumentation

Resonant Optical Phase Modulator

(1-1.29 GHz, temperature control option)

Mechanical Dimensions (Unit: mm)

*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

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Typical Speed and Repetition Measurement

Note: Top Traces are electrical; Bottom traces are optical

Typical Bandwidth Measurement

Ordering Information

GHZM -	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	1	1
	Type	Wavelength	Resonance Frequency	Polarizer		
	Standard=11 Special=00	850=8 780=7 650=6 550=5 450=4 300=3 Special=0	1.12 Ghz=112 3.05GHz= 305	No=1 Yes=2 Special=0		

[1]:
[2]:

Q & A