PHOTONWARES

Free-Space Electro-Optical Modulator

(2mm aperture, 300nm to 2000nm)

Features

- High Performance
- Compact Package
- Easy integration
- Customize Available
- Low cost

Applications

- Laser Modulation
- Holography
- Metal cutting/engraving
- Microfabrication

RoHS Compliant

Product Description

Agiltron's Free-space Electro-optic modulator(FEOM) is a LT based modulator which is efficient, convenient and easy to use tools to modify the phase, frequency, polarization or amplitude of a free-space laser. The modulation spectrum ranges from DC-coupled phase shifters to high-Q, resonant enhanced EOMs in the kHz, MHz and GHz range.

Performance Specifications

Parameters		Min	Typical	Max	Unit
Modulator Crystal			MgO-Doped $LiNbO_3$		
Wavelength Range	W1	400		600	nm
	W2	600		900	
	W3	900		1250	
	W4	1250		1650	
Clear Aperture		2			mm
Halfwave Voltage, non-resonant			205V @ 633nm		
Halfwave Voltage, resonant			15V @ 633nm		
Extinction Ratio		10			dB
Input impedance, resonant			50		ohms
Input capacitance, non-resonant			14		pF
Max Optical Power Density	532nm			2	W/mm^2
	1064nm			4	
Dimension			86 x 32 x 32		mm
Temperature		-20		50	°C

Revision: 4-5-2020

15 Presidential Way , Woburn, MA 01801 Tel: (781) 935-1200 Fax: (781) 935-2040
www.photonwares.com

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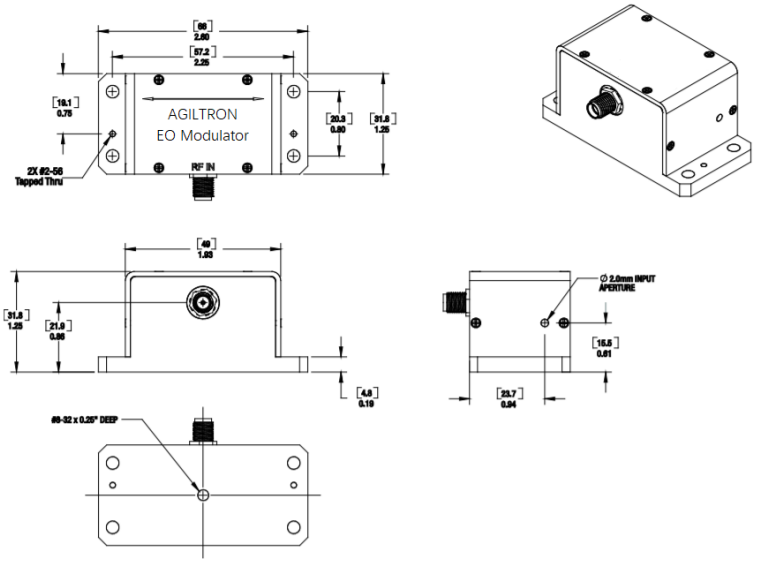
Mechanical Drawing



Ordering Information

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	Type	Wavelength				
FEOM	Amplitude = 1 Phase = 2	0500=400~600 nm 0750=600~900 nm 1050=900~1250 nm 1450=1250~1650 nm				

Revision: 3-8-20

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