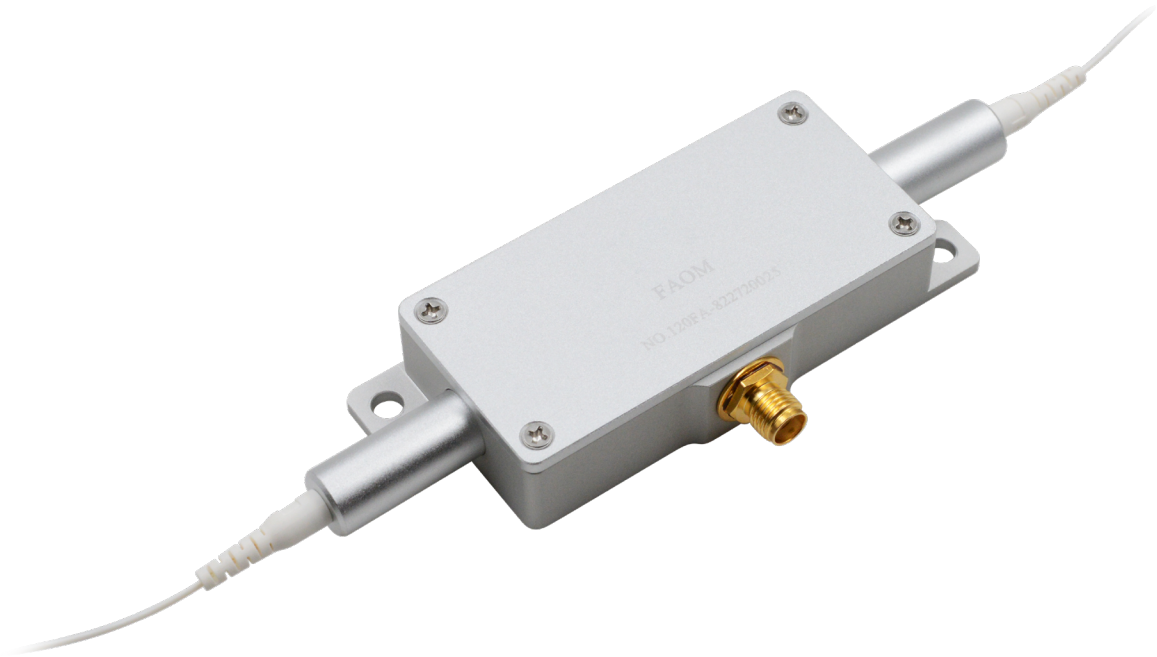


FIBER COUPLED ACOUSTO-OPTIC MODULATOR

Coherent's Fiber coupled acousto-optic modulator (FAOM) are composed of high-quality acousto-optic grade crystals, collimators with stable performance and high-precision mechanical structures, featuring low insertion loss, large-span operating temperature, and excellent power handling. Custom designs and prototypes are also available.



FEATURES

- Stable Performance
- Fast Modulation Speed
- High Diffraction Efficiency
- Multiple fiber types

APPLICATIONS

- Fiber laser
- Industrial
- Customization

FIBER COUPLED ACOUSTO-OPTIC MODULATOR

Specification

Parameter	Units	Max	Typical	Min	Comments
Interaction Material					TeO ₂
Frequency	MHz		120		
Center Wavelength	nm	1069	1064	1059	
Max RF power	W		2.5		
Input Impedance	Ω	49	50	51	
VSWR		1.2:1			
Average Power Handling	W	3			
Rise time/Fall time	ns	80			
Extinction Ratio	dB			45	
Insertion Loss	dB	1.2			
Diffraction Efficiency				80%	
AR R		0.5%			
Optical Power Density	MW/cm ²			10	
Bragg Angle	mrad	13.2	12.7	12.2	
Effective Aperture	mm		3*0.6		L*H
Spot Diameter	um		420		
Fiber Type					Nufern FUD-3584
Fiber Length	m		1		
Loose Tube Length	cm	21.5	24	26.5	

Mechanical Dimensions

