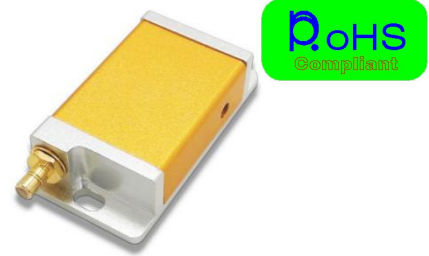


Introduction

CSRayzer's **Free Space Acousto-Optic Modulator (FAOM)** series product, is a kind of laser beam intensity modulation and frequency shift processing products, with high diffraction efficiency and high extinction ratio, low insertion loss.



Specification

Parameter	Unit	1010~1060nm Wavelength								Comments
Material		TeO2								Customizable
Light spot	mm	0.3		0.7		1	1.5	2		Customizable
Optical Aperture	mm	2*0.3		2*0.7		2*1	2.5*1.5	3*2		Customizable
Center Frequency	MHz	150	200	60	100	120	100	100	100	Customizable
Frequency Shift	MHz	±150	±200	±60	±100	±120	±100	±100	±100	
Deflection Angle	mrad	38	50	15	25	30	25	25	25	
Frequency Bandwidth	MHz	±10		±10	±20	±10	±20	±20	±10	
Radio Frequency Power	W	2.5		1.5	1.5	1.8	2	2.5	4.5	
Average optical power	W	1		5		5	5	5		
Peak (pulse) optical power	kW	10		30		30	30	30		
Diffraction Efficiency	%	75		85		85	80	80		
Rise Time	ns	60		130		200	300	400		
VSWR		1.5:1		1.2:1		1.2:1	1.2:1	1.4:1		
Ultrasonic Velocity	m/s	4200								
Input Impedance	Ω	50								
Device Interface		SMA								
Working temperature	℃	-20~50								
Storage Temperature	℃	-30~+70								

Ordering Information

FAOM-①-②-③-④-⑤-⑥

①Central Wavelength	②Center Frequency	③Beam Size	④Ultrasonic Working Mode	⑤Handling Average	⑥Shell Type
633-633nm	60-60Mhz	0.3-0.3mm	L-Longitudinal wave	05-500mw	A-All glue
820-820nm	100-100Mhz	0.7-0.7mm	S-Transverse wave	10-1w	B-golden
1064-1064nm	120-120Mhz	1-1mm		20-2w	C-Black oxidation
1550-1550nm	150-150Mhz	1.5-1.5mm		S-Specify	D-Mini
S-Specify	200-200Mhz	2-2mm			