

Introduction

CSRAYZER'S **Fiber Coupled Acousto-Optic Modulator AOM Series Product**, is an acousto-optic device which controls the intensity of laser beam, with high extinction ratio, low insertion loss. Our Fiber Coupled AOM product are with wavelength range 532nm-2000um, and frequency range 35MHz-300MHz. RF driver could be digital and analog modulation type, as per specific requirements.



Acousto Optic Modulator
Free Space Or Fiber Coupled

Specification

Parameter	Unit	Min	Max	Typical	Comments	
Material				TeO2	Customizable	
Wavelength	nm	1030/1064/1550/2000			Customizable	
Average optical power handling	W	0.5	5			
Peak (pulse) optical power handling	kW	1	5			
Ultrasonic Velocity	m/s			4200		
Frequency	MHz	80/100/120/150/20/300			Customizable	
Frequency Shift	MHz	-/+40	-/+200		Customizable	
Extinction Ratio (1st order on / off)	dB	45	55	50		
Extinction Ratio	dB	20			Fiber Type: PM Fiber	
Return Loss (RF ON)	dB	40				
Insertion Loss	40/80/100/120MHz	dB	1.2	2.5	1.5	Min2/Max3/Typ2.5 @40M
	150/200MHz	dB	2.5	3.0	2.7	Min3/Max4/Typ3.0 @150M
Rise -time / Fall-time: (10% - 90%)	40/80/100/120MHz	ns	20	45	25	Customizable
	150/200MHz	ns	8	10	10	Customizable
Radio Frequency Power	40/80/100/120MHz	W	1.5	3	2.5	
	150/200MHz	W			2.5	
VSWR	40/80/100/120MHz				1.2:1	
	150/200MHz				1.5:1	
Input Impedance	Ω			50		
Working Temperature	℃	-5 to +65℃				
Storage Temperature	℃	-20 to +75℃				

Customization is Available!

*IL is higher, RL and ER is lower if connectors added.

Ordering Information

AOM-①-②-③-④-⑤-⑥-⑦-⑧-⑨

① Center Wavelength	② Frequency	③ Handling Average Optical Power	④ Package Dimension	⑤ Fiber Type	⑥ Fiber Length	⑦ Fiber Jacket	⑧ Jacket Length	⑨ Connector
1064-1064nm	80-80M	05-500mW	C1-67*23*15m	PM980-PM980	1-1M	0-Bare Fiber	1-1M	FU-FC/PC
1550-1550nm	120-120M	10-1W	S-Specify	PM1550-PM1550	S-Specify	1-900μm Loose Tube	S-Specify	FA-FC/APC
S-Specify	200-200M	20-2W		S-Specify		2-2mm Cable		S-Specify