

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 60MHz-200MHz. RF driver could be digital and analog modulation type, as per specific requirements.



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	°C	-5 to +65°C				
Storage Temperature	°C	-20 to +75°C				

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