



## Introduction

CSRAYZER'S Fiber Coupled Acousto-Optic Modulator AOM Series Product, is an acousto-optic device which controls the intensity of laser beam or for frequency shift, 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 TTL or 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	Min2.0/Max3.0/Typ2.5 @40M
	150/200MHz	dB	2.5	3.0	2.7	Min3.0/Max4.0/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 connector is added.

## Part Number & Ordering Information

**AOM-①-②-③-④-⑤-⑥-⑦-⑧-⑨**

① Wavelength	② Frequency	③ Optical Power	④ Dimension	⑤ Fiber Type	⑥ Fiber Length	⑦ Fiber Jacket	⑧ Jacket Length	⑨ Connector
1030-1030nm	80M-80M	05-500mW	C1 - 60*25*12(mm)	PM980-PM980	1-1M	0-Bare Fiber	0 - No Jacket	FU-FC/UPC
1064-1064nm	100M-100M	10-1W	G3 - 35*28*12(mm)	Hi1060- Hi1060	2-2M	1-900μm Loose Tube	1-1M	FA-FC/APC
1550-1550nm	120M-120M	30-3W	G6 - 67*23*15(mm)	PM1550-PM1550	S-Specify	2-2mm Cable	S-Specify	N - NONE
S-Specify	200M-200M	S-Specify		S-Specify				