

# M1206-P110L-1

## Acousto-Optic Modulator



0419

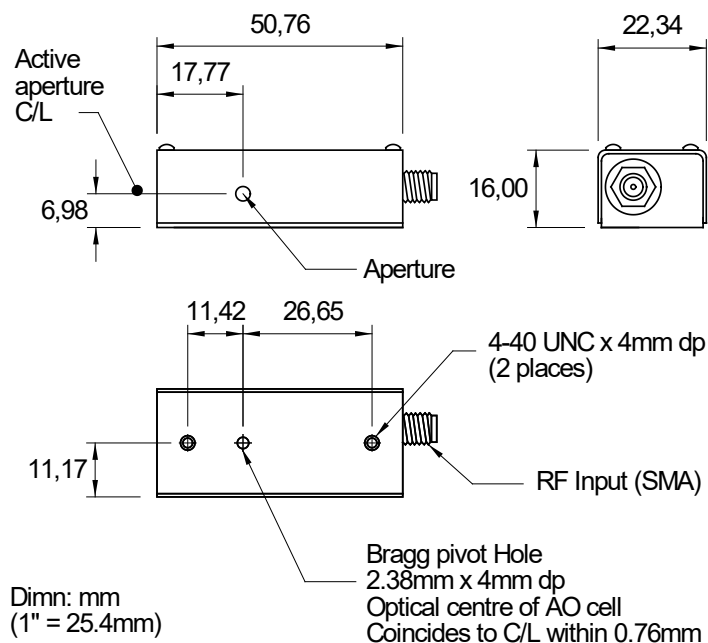
### APPLICATIONS

- Intensity Modulator
- Low resolution Deflector
- Frequency Shifter

### RF Drive Electronics

Digital modulation	523C-L / -2, 823C-L
Analog modulation	533C-L / -2, 833C-L
Dual modulation	553F-L / -2
Tuneable with modulation	630C-110, iSPA-SF1-w

### OUTLINE DRAWING



Option -M , metric mounting threads, M3

**Note: Mount device to heat conducting surface**

**ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE**

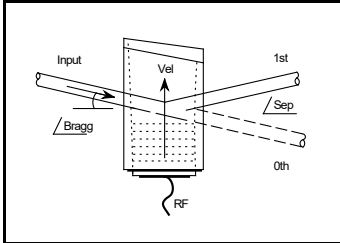
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**Quality Assured.**

**In-house: Crystal Growth,  
Optical Polishing,  
A/R coating, Vacuum Bonding**



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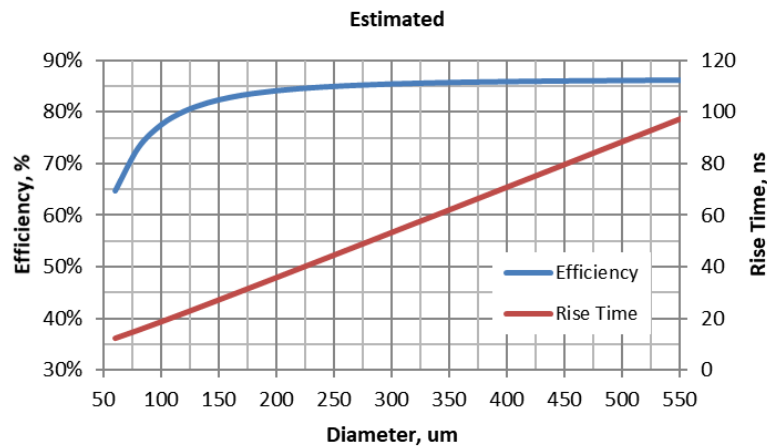
### SPECIFICATIONS

Spectral Range:	0.44 > 1.5 $\mu$ m
Standard A/R Wavelengths:	488 - 633nm
Interaction Medium:	Tellurium Dioxide (TeO <sub>2</sub> )
Input polarization:	Vertical preferred
Acoustic Velocity:	4.2mm/ $\mu$ s
Active Aperture:	1mm
Centre Frequency (CF):	110MHz
RF Bandwidth:	40MHz
Input Impedance:	50 $\Omega$ Nominal
VSWR:	<1.5:1 @ 110MHz
DC Contrast Ratio:	>1000:1 min (>2000:1 typical)

### PERFORMANCE vs. WAVELENGTH

Wavelength (nm):	488	515	633
RF Drive Power(W):	<0.4	<0.5	<0.9
Bragg angle (mrad):	7.4	7.8	9.6
Beam Separation (mrad):	14.8	15.6	19.2
Static Insertion Loss (%):	<7	<3	<3

### PERFORMANCE vs. BEAM DIAMETER at 515nm



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