

# M1205-T80L-0.7, -1, -2

## Acousto-Optic Modulator



0419

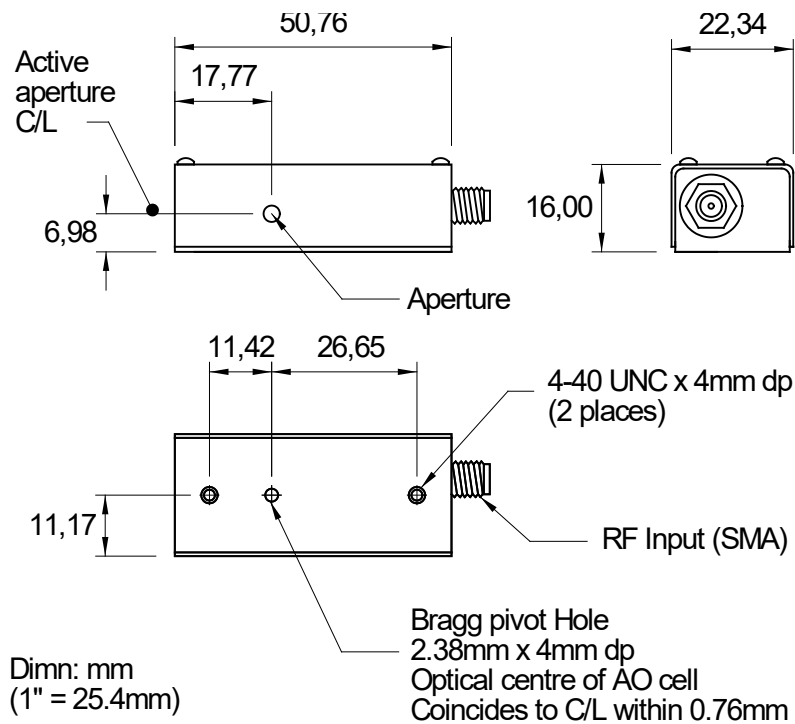
### APPLICATIONS

- Intensity Modulator
- Low resolution Deflector
- Frequency Shifter

### RF Drive Electronics

Digital modulation	522C-L / -2, 822C-L
Analog modulation	532C-L / -2, 832C-L
Dual modulation	552F-L / -2
Tuneable with modulation	630C-80, iSPA-SF1-w

### OUTLINE DRAWING

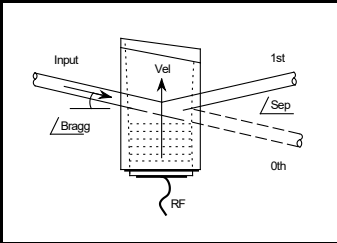


M3 metric fixing threads available. Please add option suffix "-M"

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

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Quality Assured.  
 In-house: Crystal Growth,  
 Optical Polishing,  
 A/R coating, Vacuum Bonding



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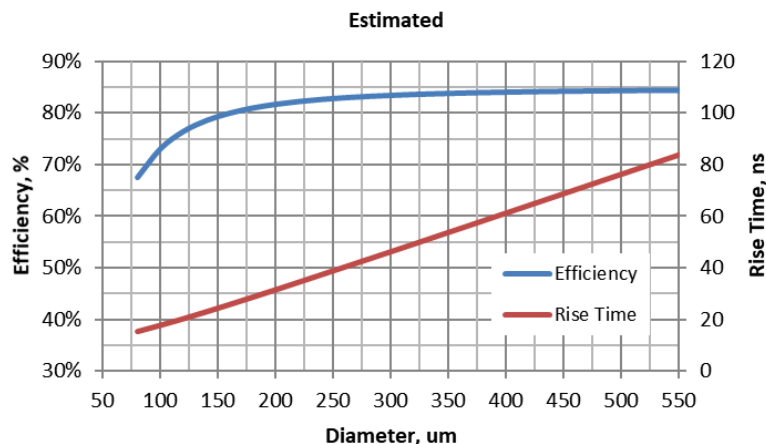
### SPECIFICATIONS

A/R Operating Wavelengths:	515-640nm
Interaction Medium:	Tellurium Dioxide (TeO <sub>2</sub> )
Acoustic Velocity:	4.2mm/μs
Active Aperture Height (H):	-0.7: 0.7mm
	or -1: 1.0mm
	or -2: 2.0mm
Centre Frequency (CF):	80MHz
RF Bandwidth (minimum):	30MHz (+/- 15MHz)
Input Impedance:	50Ω Nominal
VSWR:	<1.5:1 @ 80MHz
DC Contrast Ratio:	>1000:1 min (>2000:1 typical)

### PERFORMANCE vs. WAVELENGTH

Wavelength:		515nm	589nm	640nm
RF Drive Power, typ <sup>1</sup> :	(H=1)	0.35W	0.53W	0.63W
	(H=2)	0.7W	1.1W	1.3W
Bragg angle:		5.1 mrad	5.6 mrad	6.1 mrad
Beam Separation:		10.1 mrad	11.2 mrad	12.2 mrad
Static Insertion Loss:		< 3%	< 3%	< 3%

### PERFORMANCE vs. BEAM DIAMETER at 532nm



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