

# M1430-T350L-0.2

## Acousto-Optic Modulator



0622

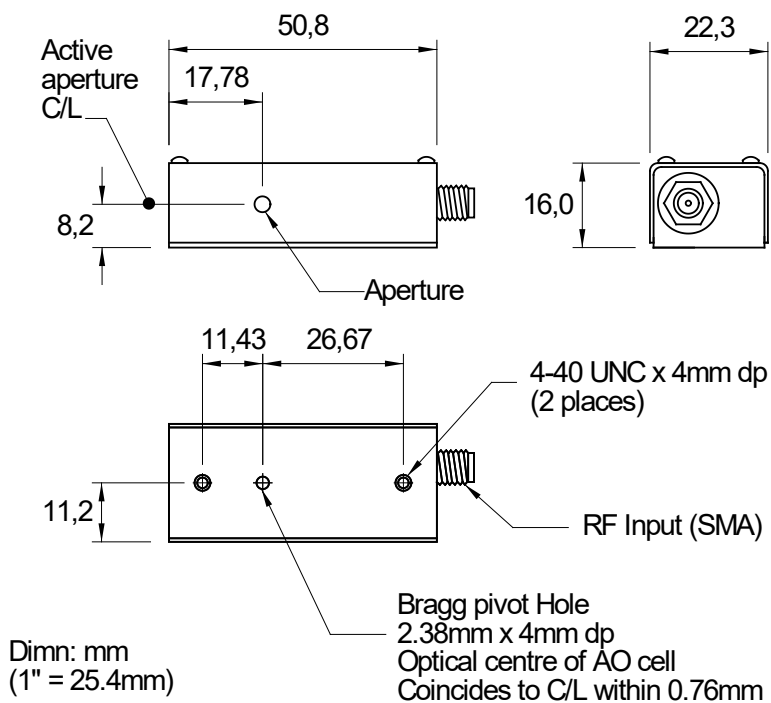
### APPLICATIONS

- Intensity Modulator
- Low resolution Deflector
- Frequency Shifter

### RF DRIVERS

Analog modulation	537C-2
Dual modulation	557F-2
Tuneable with modulation	630C-350

### OUTLINE DRAWING

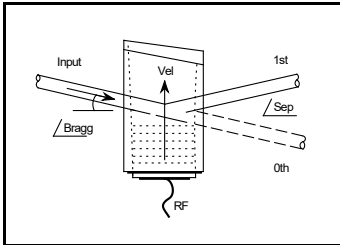


Option: M1430M-T350L-0.2, M3 metric mounting threads

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

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE  
 ISOMET CORP, 10342, Battleview Parkway, VA 20109, USA.  
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Quality Assured.  
 In-house: Crystal Growth,  
 Optical Polishing,  
 A/R coating, Vacuum Bonding



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### SPECIFICATIONS

Spectral Range:	0.36 > 1.5 $\mu$ m
Standard A/R Wavelengths:	360-420nm, 442-488nm, 488-633nm
Interaction Medium:	Tellurium Dioxide (TeO <sub>2</sub> )
Input polarization:	Vertical preferred
Acoustic Velocity:	4.2mm/ $\mu$ s
Active Aperture:	0.2mm
Centre Frequency (CF):	350MHz
RF Bandwidth:	160MHz minimum, 200MHz typical
Input Impedance:	50 $\Omega$ nominal
VSWR:	<1.5:1 @ 350MHz
DC Contrast Ratio:	>1000:1 min (>2000:1 typical)

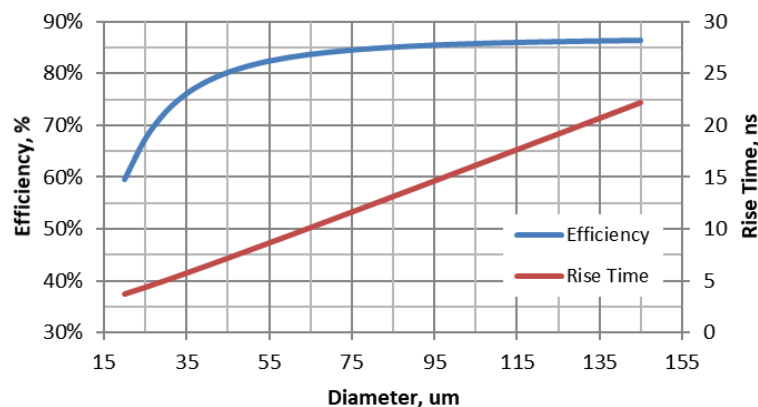
### PERFORMANCE vs. WAVELENGTH

Wavelength (nm):	360	405	488	532	633*
RF Drive Power(W):	<0.5	<0.6	<0.8	<1.0	<1.4
Bragg angle, 350MHz (mrad):	15.0	16.9	20.3	22.2	26.4
Beam Separation, 350MHz, (mrad):	30.0	33.8	40.7	44.3	52.8
Static Insertion Loss (%):	<5	<5	<3	<3	<3

\* Max CW or average RF power limited to 1W

### PERFORMANCE vs. BEAM DIAMETER at 532nm

Estimated



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