

# M1250-T250L-0.45

## Acousto-Optic Modulator



0419

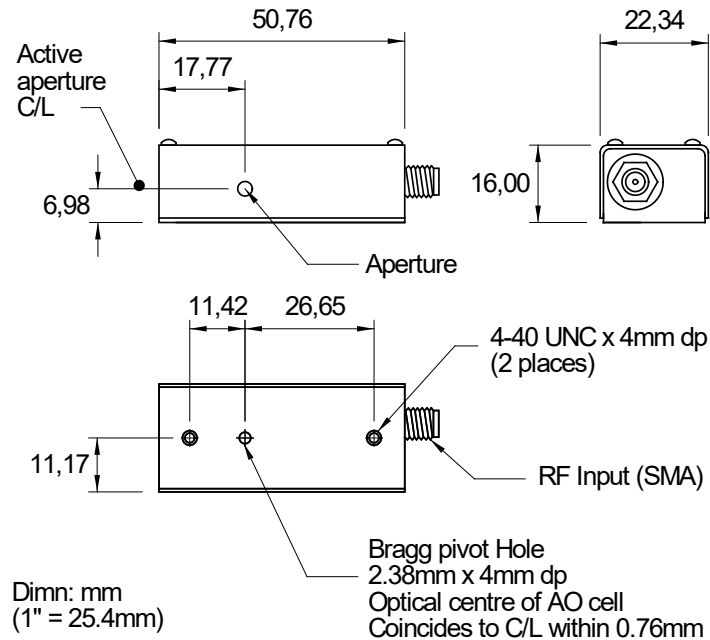
### APPLICATIONS

- Intensity Modulator
- Low resolution Deflector
- Frequency Shifter

### RF Drive Electronics

Digital modulation	526C-L / -2
Analog modulation	536C-L / -2
Dual modulation	556F-L / -2
Tuneable with modulation	630C-250, 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

ISOMET CORP, 10342, Battlevue Parkway, VA 20109, USA.

Tel: (703) 321 8301 Fax: (703) 321 8546

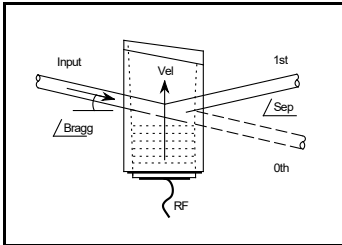
E-mail: [ISOMET@ISOMET.COM](mailto:ISOMET@ISOMET.COM) Web Page: [WWW.ISOMET.COM](http://WWW.ISOMET.COM)

Quality Assured.

In-house: Crystal Growth,

Optical Polishing,

A/R coating, Vacuum Bonding



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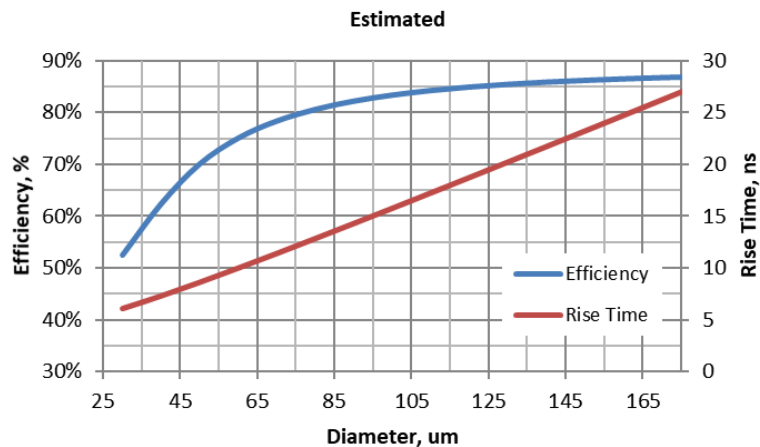
### SPECIFICATIONS

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:	0.45mm
Centre Frequency (CF):	250MHz (260MHz)
RF Bandwidth:	100MHz
Input Impedance:	50 $\Omega$ nominal
VSWR:	<1.5:1 @ 250MHz
DC Contrast Ratio:	>1000:1 min (>2000:1 typical)

### PERFORMANCE vs. WAVELENGTH

Wavelength (nm):	360	405	488	532	633
RF Drive Power(W):	<0.4	<0.5	<0.7	<0.7	<1.0
Bragg angle, 250MHz (mrad):	10.7	12.1	14.5	15.8	18.8
Beam Separation, 250MHz, (mrad):	21.4	24.1	29.1	31.7	37.7
Static Insertion Loss (%):	<5	<5	<3	<3	<3

### PERFORMANCE vs. BEAM DIAMETER at 488nm



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