

M1250-T200L-0.5

Acousto-Optic Modulator



0419

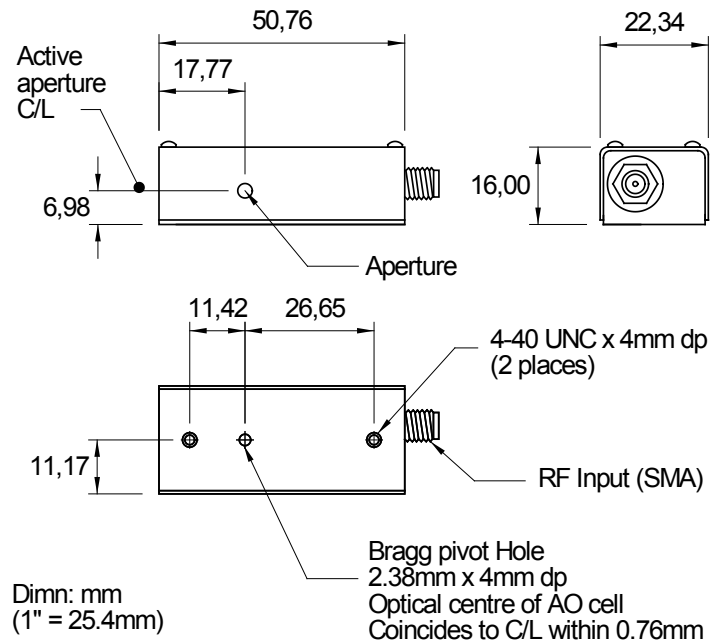
APPLICATIONS

- Intensity Modulator
- Low resolution Deflector
- Frequency Shifter

RF Drive Electronics

Digital modulation	525C-L / -2
Analog modulation	535C-L / -2
Dual modulation	555F-L / -2
Tuneable with modulation	630C-200, 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

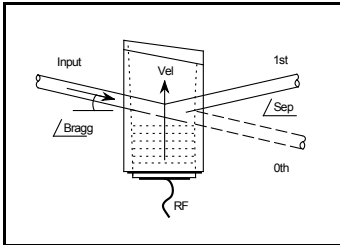
ISOMET CORP, 10342, Battleview Parkway, VA 20109, USA.

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

E-mail: ISOMET@ISOMET.COM Web Page: WWW.ISOMET.COM

Quality Assured.

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



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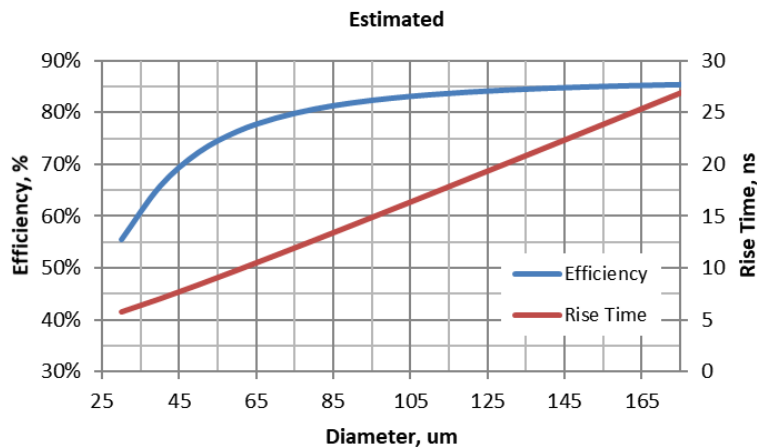
SPECIFICATIONS

Spectral Range:	0.36 > 1.5 μ m
Standard A/R Wavelengths:	360-420nm, 442-488nm, 488-633nm
Interaction Medium:	Tellurium Dioxide (TeO ₂)
Input polarization:	Vertical preferred
Acoustic Velocity:	4.2mm/ μ s
Active Aperture:	0.5mm
Centre Frequency (CF):	200MHz
RF Bandwidth:	100MHz
Input Impedance:	50 Ω nominal
VSWR:	<1.5:1 @ 200MHz
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	<0.9	<1.1
Bragg angle (mrad):	8.6	9.6	11.6	12.7	15.1
Beam Separation (mrad):	17.1	19.2	22.2	25.3	30.1
Static Insertion Loss (%):	<5	<5	<3	<3	<3

PERFORMANCE vs. BEAM DIAMETER at 532nm



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