

M1205-T110L-1

Acousto-Optic Modulator



0823

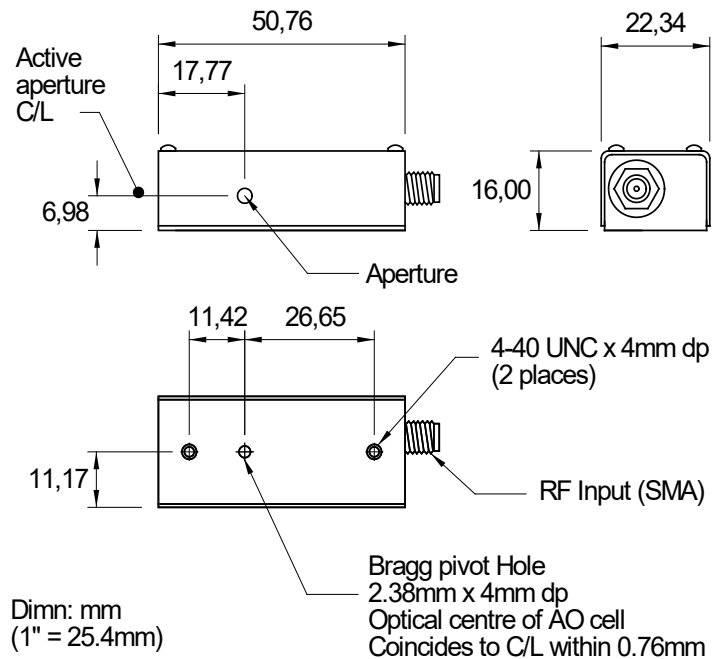
APPLICATIONS

- Intensity Modulator
- Low resolution Deflector
- Frequency Shifter

RF Drive Electronics

Digital modulation	523F-L / -2, 823F-L
Analog modulation	533F-L / -2, 833F-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

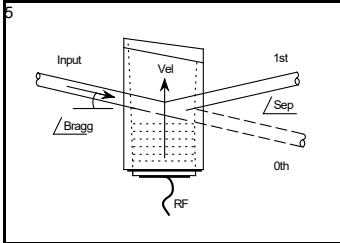
ISOMET CORP, 10342, Battleview Parkway, VA 20109, USA.

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Quality Assured.

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



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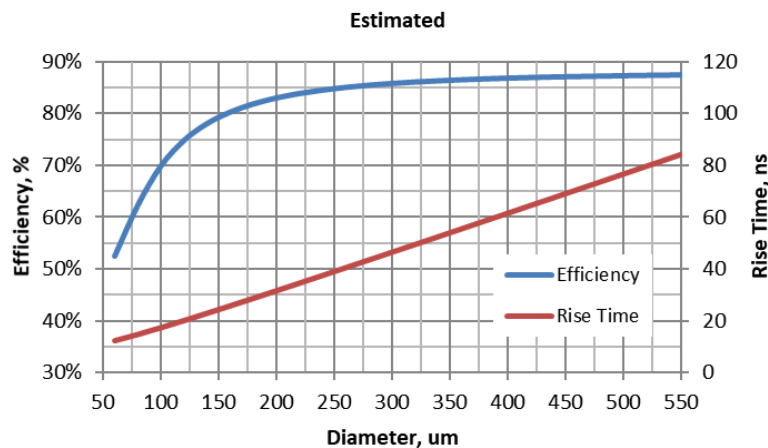
SPECIFICATIONS

Spectral Range:	0.36 > 1.5 μ m
Standard A/R Wavelengths:	360-420nm, 442-488nm, 488-650nm
Interaction Medium:	Tellurium Dioxide (TeO ₂)
Input polarization:	Vertical preferred
Acoustic Velocity:	4.2mm/ μ s
Active Aperture:	1mm
Centre Frequency (CF):	110MHz
RF Bandwidth:	40MHz
Input Impedance:	50 Ω Nominal
VSWR:	<1.5:1 @ 110MHz
DC Contrast Ratio:	>1000:1 min (>2000:1 typical)

PERFORMANCE vs. WAVELENGTH

Wavelength (nm):	360	405	488	515	633
RF Drive Power(W):	<0.2	<0.3	<0.35	<0.4	<0.6
Bragg angle (mrad):	4.7	5.3	6.4	6.7	8.3
Beam Separation (mrad):	9.4	10.6	12.8	13.5	16.6
Static Insertion Loss (%):	<7	<5	<5	<3	<3

PERFORMANCE vs. BEAM DIAMETER (515nm)



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