

M1429-T200L-0.2 (633-830nm)



Acousto-Optic Modulator

0622

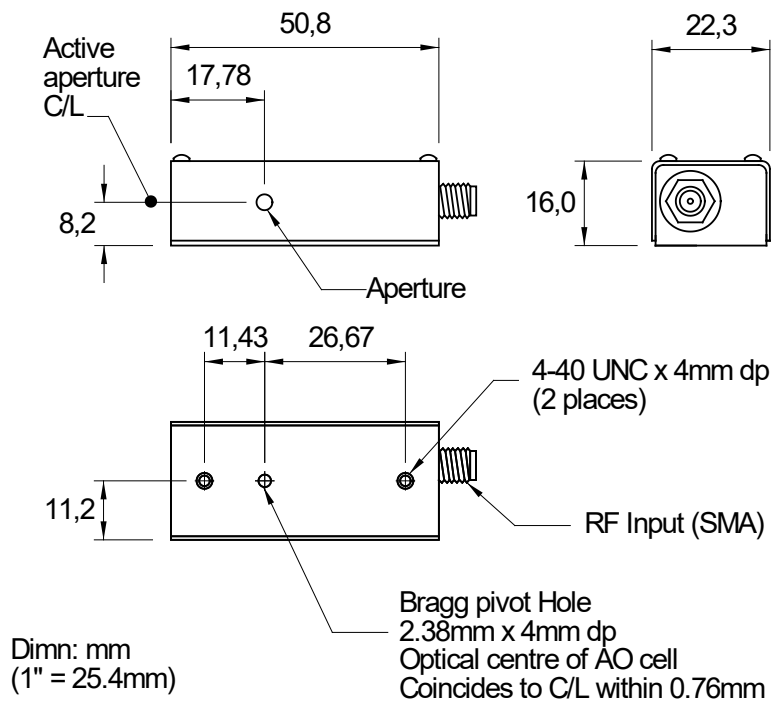
APPLICATIONS

- Modulator
- Pulse picker
- Frequency Shifter

RF Drive Electronics

Digital modulation	525F-2
Analog modulation	535F-2
Dual modulation	555F-2

OUTLINE DRAWING

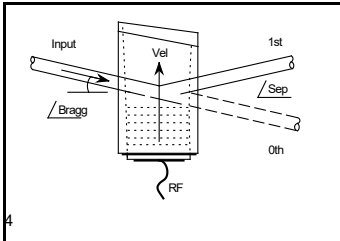


Option -M, metric mounting threads, M3

Note: Mount device to heat conducting surface

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
 ISOMET CORP, 10342 Battlevue Parkway, Manassas, VA 20109, USA.
 Tel: (703) 321 8301 Fax: (703) 321 8546
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Quality Assured.
 In-house: Crystal Growth,
 Optical Polishing,
 A/R coating, Vacuum Bonding



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SPECIFICATIONS

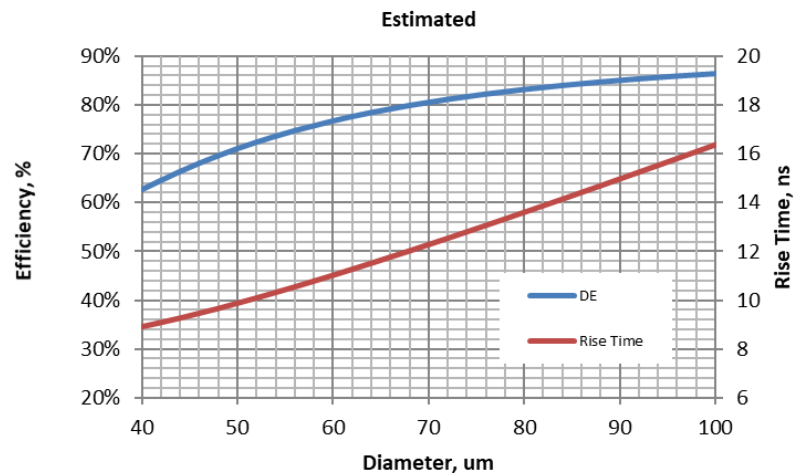
A/R Operating Wavelengths:	633-830nm
Interaction Medium:	Tellurium Dioxide (TeO ₂)
Acoustic Velocity:	4.2mm/μs
Active Aperture:	0.2mm
Centre Frequency (CF):	200MHz
RF Bandwidth (minimum):	80MHz (+/- 40MHz)
Input Impedance:	50Ω Nominal
VSWR:	<1.5:1 @ 200MHz
DC Contrast Ratio:	>1000:1 min (>2000:1 typical)
Static Insertion Loss:	< 3%

PERFORMANCE vs. WAVELENGTH

Wavelength:	633nm	780nm	830nm
RF Drive Power: (Maximum average or CW = 1.5W)	0.7W	1.0W	1.2W
Bragg angle:	15.1mrad	18.6mrad	19.8mrad
Beam Separation:	30.1mrad	37.1mrad	39.5mrad

PERFORMANCE vs. BEAM DIAMETER at 780nm

For $1/e^2$ beam diameters >100μm,
rise time ~180nsec/mm



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