

M1250-T260L-0.45 (633-830nm)

Acousto-Optic Modulator



0519

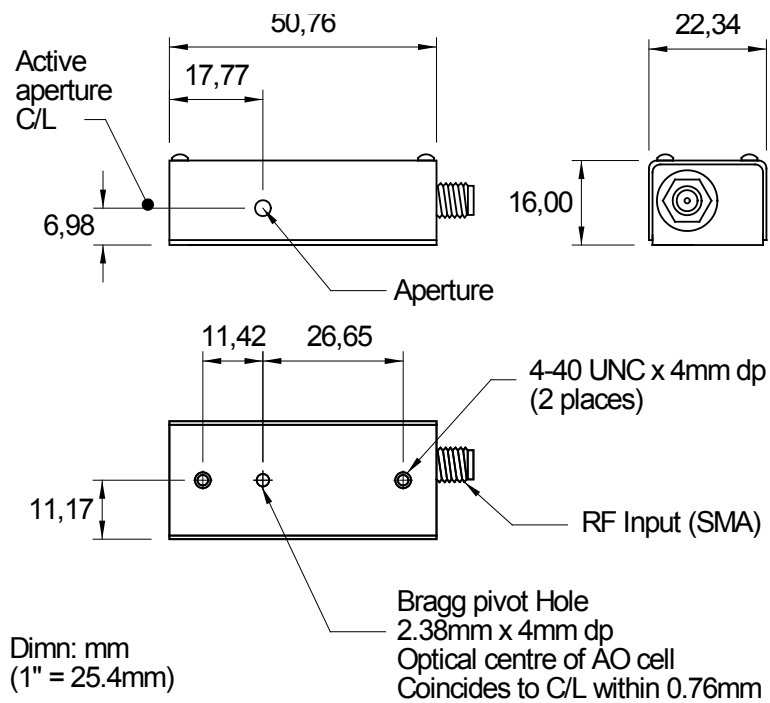
APPLICATIONS

- Modulator
- Low Resolution Deflector
- Frequency Shifter

RF DRIVERS

Digital modulation	526C-2
Analog modulation	536C-2
Dual modulation	556F-2
Tuneable with modulation	630C-250 / iSPA-SF1-e

OUTLINE DRAWING



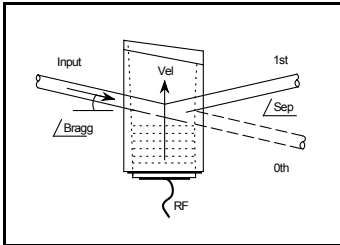
Option:

Metric fixing holes, M3-0.5 thread: add suffix -M

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

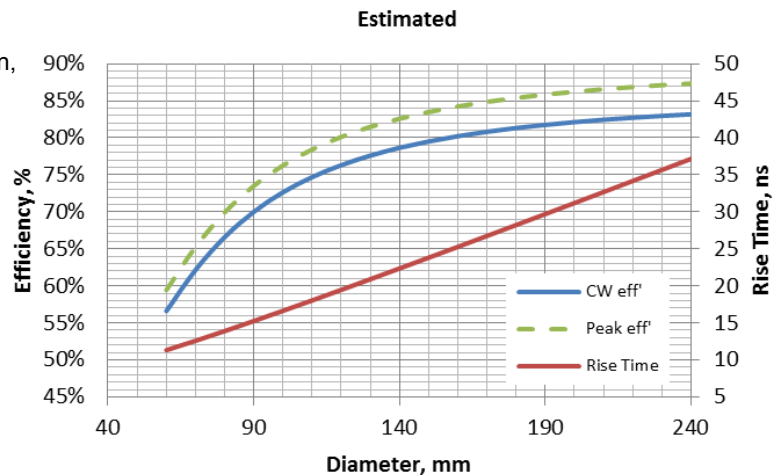
A/R Operating Wavelengths:	633-830nm
Interaction Medium:	Tellurium Dioxide (TeO ₂)
Acoustic Velocity:	4.2mm/μs
Active Aperture:	0.45mm
Centre Frequency (CF):	260 MHz
RF Bandwidth:	100MHz (+/- 50MHz)
Input Impedance:	50Ω Nominal
VSWR:	<1.5:1 @ 260MHz
DC Contrast Ratio:	>1000:1 min (>2000:1 typical)

PERFORMANCE vs. WAVELENGTH at 260MHz

Wavelength:	633 nm	780 nm	830 nm
RF Drive Power, peak: (Maximum average or CW = 1.3W).	1.1W	1.7W	1.9W
Bragg angle:	19.6 mrad	24.1 mrad	25.7 mrad
Beam Separation:	39.2 mrad	48.3 mrad	51.4 mrad
Static Insertion Loss:	< 3%	< 3%	< 3%

PERFORMANCE vs. BEAM DIAMETER at 780nm

Peak efficiency applies to duty cycled operation,
 Maximum average (or CW) RF power = 1.3W
 For 1/e² beam diameters >200μm,
 rise time = 155nsec/mm



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