

M1260-T350L-0.2

Acousto-Optic Modulator



0419

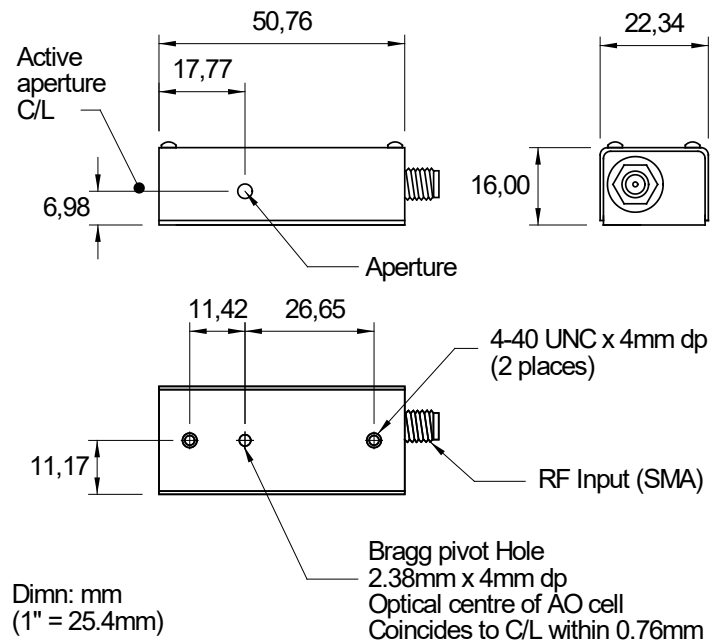
APPLICATIONS

- Intensity Modulator
- Low resolution Deflector
- Frequency Shifter

RF Drive Electronics

Analog modulation	537C-2
Dual modulation	557F-2
Tuneable with modulation	630C-350

OUTLINE DRAWING

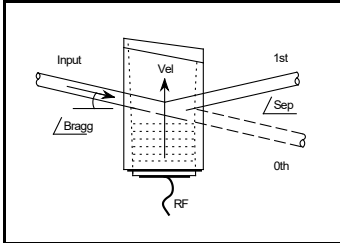


Option -M, metric mounting threads, M3

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



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SPECIFICATIONS

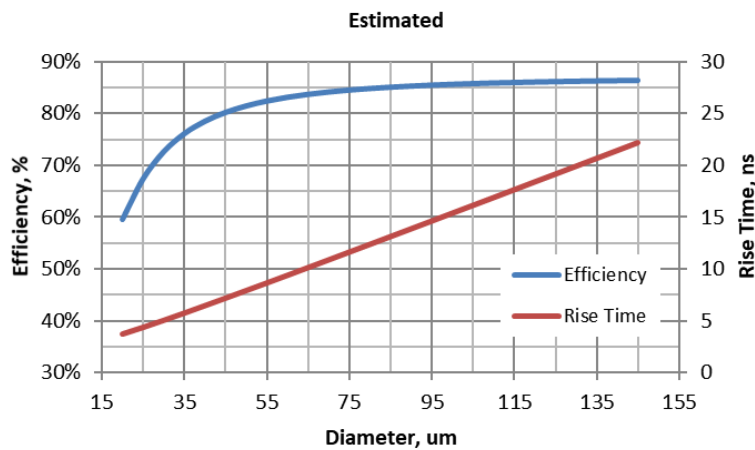
Spectral Range:	0.36 > 1.5 μ m
Standard A/R Wavelengths:	360-420nm, 442-488nm, 488-633nm
Interaction Medium:	Tellurium Dioxide (TeO ₂)
Input polarization:	Vertical preferred
Acoustic Velocity:	4.2mm/ μ s
Active Aperture:	0.2mm
Centre Frequency (CF):	350MHz
RF Bandwidth:	160MHz minimum, 200MHz typical
Input Impedance:	50 Ω nominal
VSWR:	<1.5:1 @ 350MHz
DC Contrast Ratio:	>1000:1 min (>2000:1 typical)

PERFORMANCE vs. WAVELENGTH

Wavelength (nm):	360	405	488	532	633*
RF Drive Power(W):	<0.5	<0.6	<0.8	<1.0	<1.4
Bragg angle, 350MHz (mrad):	15.0	16.9	20.3	22.2	26.4
Beam Separation, 350MHz, (mrad):	30.0	33.8	40.7	44.3	52.8
Static Insertion Loss (%):	<5	<5	<3	<3	<3

* Max CW or average RF power limited to 1W

PERFORMANCE vs. BEAM DIAMETER at 532nm



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