

1260C

Acousto-Optic Modulator



0613

APPLICATIONS

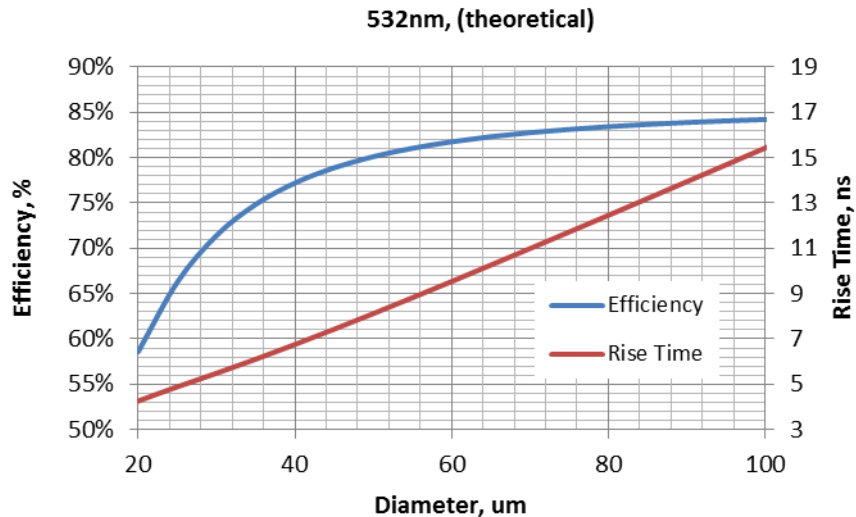
Very High Speed Modulation
Frequency Shifter

SPECIFICATIONS

Interaction Material:	TeO ₂ (Longitudinal Mode)
Laser Wavelength:	A/R: 360-442nm, 488-633nm or 633-830nm [◇]
Acoustic Velocity:	4200 m/s
Input Beam Polarization:	Linear, Vertical
Active Aperture:	0.2mm
Clear Aperture:	1 mm
Center Frequency:	350 MHz
RF Bandwidth:	200 MHz
RF power limit	1W

RISETIME vs. BEAM DIAMETER at 532nm

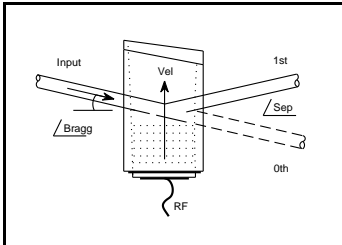
Input Beam Diameter (um):	75	55	35
Risetime (ns):	12	9	6
Diffraction Efficiency (%):	>80	>80	>72



[◇] At reduced efficiency

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
 ISOMET CORP, 5263 Port Royal Rd, Springfield, VA 22151, USA.
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Quality Assured.
 In-house: Crystal Growth,
 Optical Polishing,
 A/R coating, Vacuum Bonding



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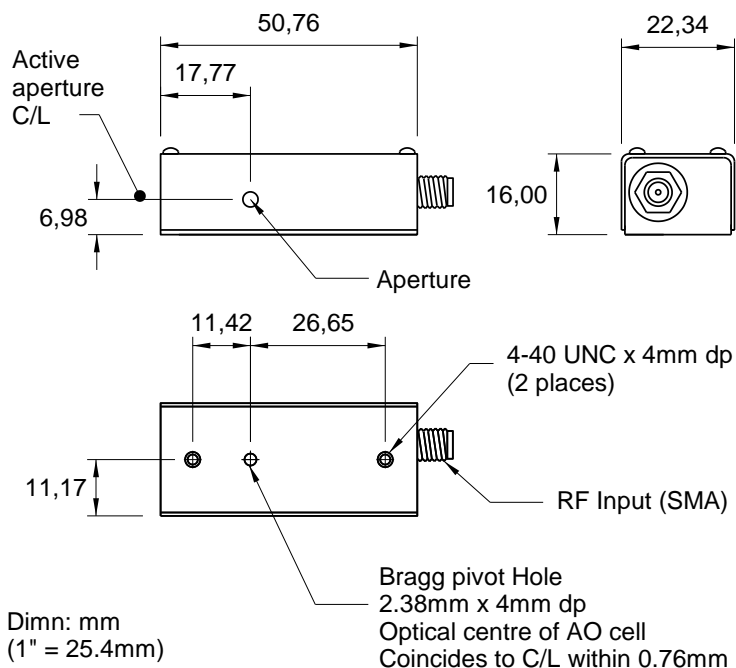


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PERFORMANCE vs. WAVELENGTH

Wavelength (nm):	413	532
RF Drive Power (W):	0.7	1.0
Maximum Efficiency (%):	80	80
Bragg angle (mrad):	17.2	22.2
Beam Separation (mrad):	34.4	44.4
Static Insertion Loss (%):	<4	<3

OUTLINE DRAWING



[Please contact Isomet for alternate case styles and operating wavelengths]

RECOMMENDED RF DRIVE ELECTRONICS

Model 537C (Analog Modulation)

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