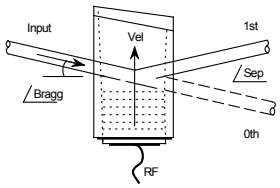


M1067-T200L

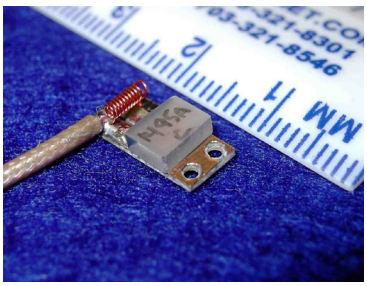
OEM Mini Acousto-Optic Modulator

0419

APPLICATION

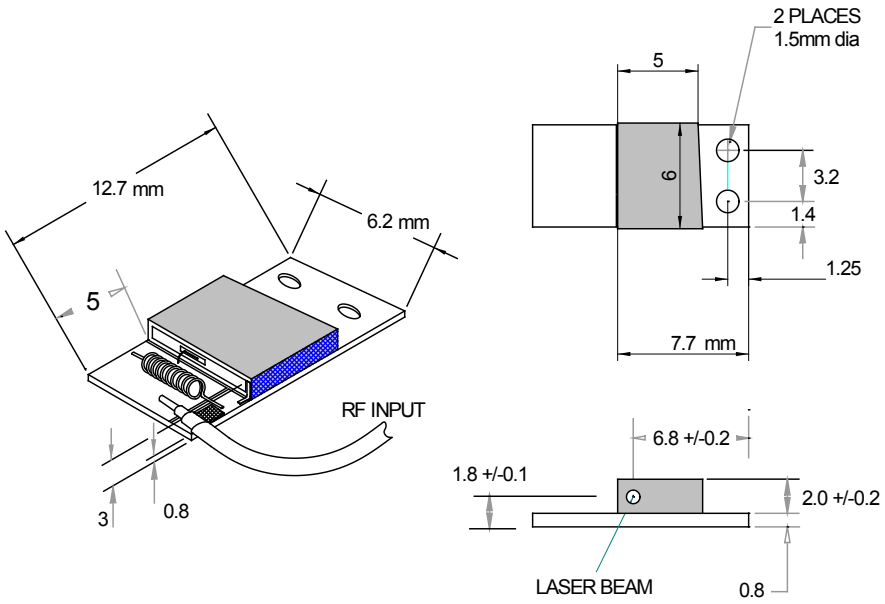
- Wideband Miniature AOM Modulator for use in Laser Projection Systems

SPECIFICATIONS



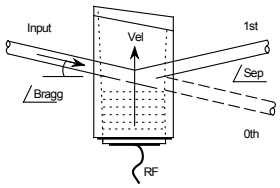
Spectral Range:	0.442-> 1.5μm
Standard A/R Wavelengths:	532nm
Interaction Medium:	Tellurium Dioxide (TeO_2)
Acoustic Velocity:	4.2mm/μs
Active Aperture:	0.2mm
Centre Frequency:	200MHz
RF Bandwidth:	50MHz
RF Input Impedance:	50Ω Nominal
DC Contrast Ratio:	>1000:1 min (2000:1 typical)

OUTLINE



ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
ISOMET CORP, 10342 Battleview Parkway, Manassas, VA 20109, USA.
Tel: (703) 321 8301 Fax: (703) 321 8546
E-mail: ISOMET@ ISOMET.COM ***Web Page: WWW.ISOMET.COM***

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



M1067-T200L

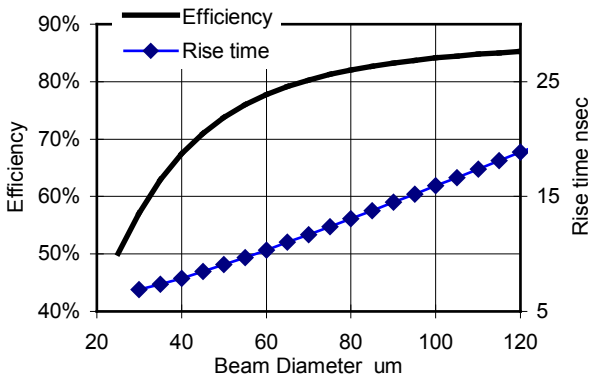
OEM Mini Acousto-Optic Modulator

ISOMET

0419

Typical Data

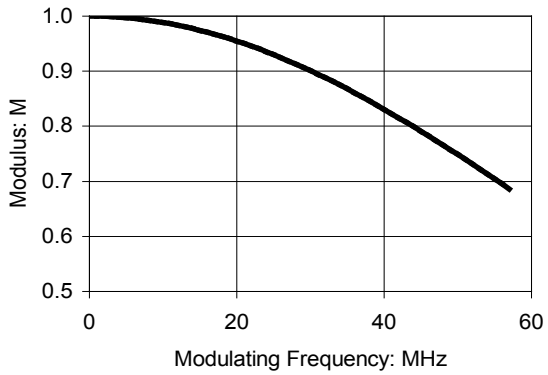
PERFORMANCE vs. BEAM DIA. at 532nm



PERFORMANCE vs. WAVELENGTH

Operating Wavelength (nm)	532
RF Drive Power (W):	<0.3
Input Bragg Angle (mrad):	12.7
0^{th}-1^{st} Order Beam Separation (mrad):	25.3
Static Insertion Loss (%):	<3

MTF (31um)



DYNAMIC CONTRAST RATIO

Maximum modulation bandwidth (50MHz) dynamic contrast ratio (CR) is obtained with a focussed beam diameter of 31μm. The typical MTF (depth of modulation) curve for the M1067 is shown at left. For larger beam diameters, the abscissa scales linearly. The value of M from the curve may be used to determine the sine wave contrast ratio at a particular modulating frequency according to the relation:

CR = 1+M/1-M

For digital, on-off modulation, the CR will be greater than the value calculated from the above equation.

Recommended Driver

535C-L

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
ISOMET CORP, 10342 Battleview Parkway, Manassas, VA 20109, USA.
Tel: (703) 321 8301 Fax: (703) 321 8546
E-mail: ISOMET@ ISOMET.COM ***Web Page: WWW.ISOMET.COM***

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