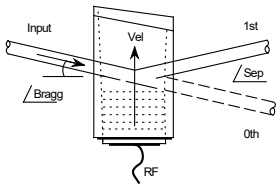


M1080(M)-T80L-1.5
NIR Acousto-Optic Modulator

ISOMET

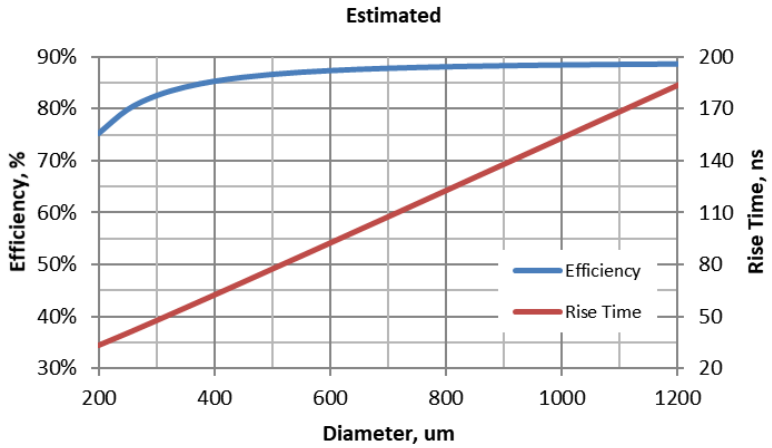
1322

Compact AO Modulator designed for medium to high power NIR Fibre and DPSS laser applications.

SPECIFICATIONS

Spectral Range:	0.36 > 1.5μm
Standard A/R Wavelengths:	0.63-0.83μm, 0.7-0.9μm or 1.064μm *
Optical Power:	20 Watts *
Interaction Medium:	Tellurium Dioxide (TeO_2)
Acoustic Velocity:	4.2mm/μs
Centre Frequency (fc):	80MHz
RF Bandwidth:	30MHz
Input Impedance:	50Ω Nominal
VSWR:	<1.5:1 @ fc
Clear Aperture:	3.5mm
Active Aperture:	1.5mm
Static Insertion Loss	< 3%
Reflectivity:	< 0.5% / surface
Laser Polarization:	Any / vertical preferred *
DC Contrast Ratio:	>1000:1 min (>2000:1 typical)

TYPICAL PERFORMANCE *



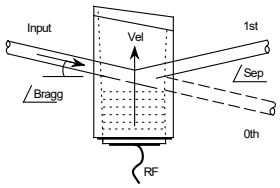
	633nm	780nm	840nm	1064nm
RF Power (nominal):	1.3W	1.5 W	1.7 W	2.7 W
Bragg Angle:	6.0mrad	7.4 mrad	8.0 mrad	10.1 mrad
Separation Angle:	12.0mrad	14.9 mrad	16.0 mrad	20.2 mrad

** see foot notes.*

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



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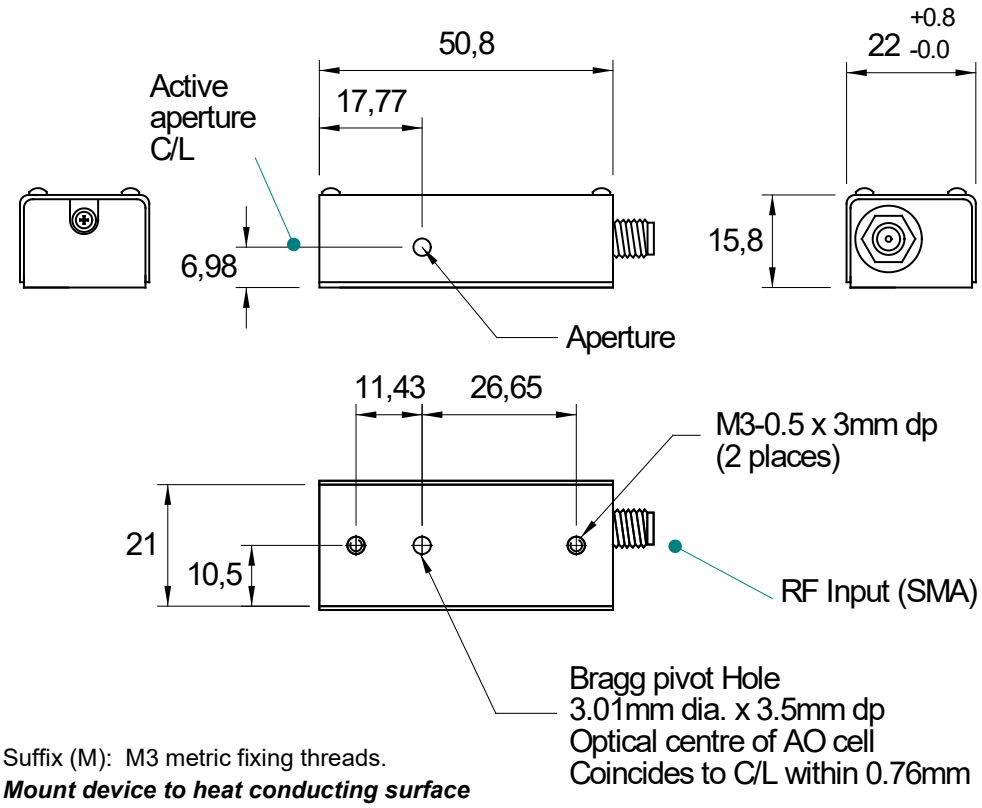
OUTLINE DRAWING



Suffix (M): M3 metric fixing threads.
Mount device to heat conducting surface

RF DRIVE ELECTRONICS

Digital modulation: 522C-2, -4 Analog modulation: 532C-2, -4 Dual modulation: 552F-2, -4
Tuneable with modulation 630A/C-80 (VCO), iSK3-80T-1 or -4 (DDS)

*** Notes:**

- PLEASE SPECIFY OPERATING WAVELENGTH.
- For higher powers please contact Isomet.
- Approximately 5% efficiency difference between v-pol and h-pol for the same RF drive power.
- Estimated efficiency applies to single mode input.

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