

M1440-T110L-2



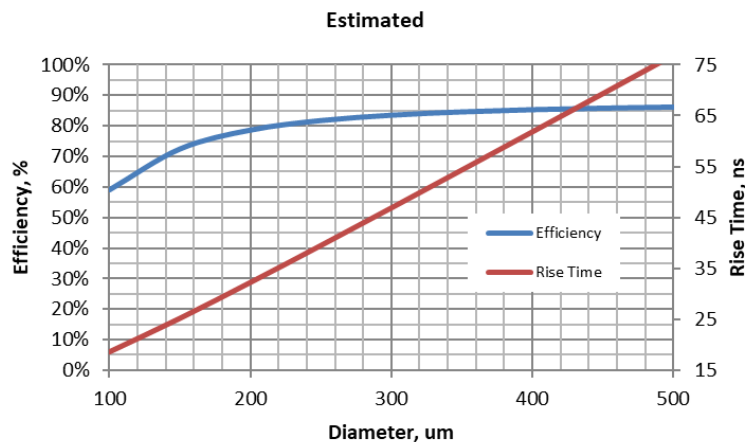
Acousto-Optic Modulator / Frequency Shifter

0425

SPECIFICATIONS

Spectral Range:	0.36 > 1.5μm
Standard A/R Wavelengths:	0.4-0.7μm *
Optical Power:	10 Watts *
Interaction Medium:	Tellurium Dioxide (TeO ₂)
Acoustic Velocity:	4.2mm/μs
Centre Frequency (fc):	110MHz
RF Bandwidth:	>50MHz
Input Impedance:	50Ω Nominal
VSWR:	<1.5:1 @ fc
Max RF power:	2.0W
Clear Aperture:	3.5mm
Active Aperture Height:	2mm
Static Insertion Loss	< 3%
Reflectivity:	< 1.0% / surface
Laser Polarization:	Any / vertical preferred *
DC Contrast Ratio:	>1000:1 min (>2000:1 typical)

TYPICAL PERFORMANCE *

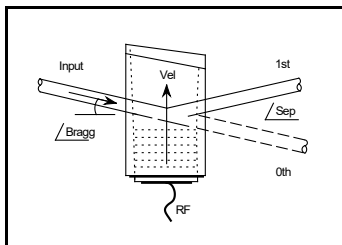


	488nm	532nm	633nm
Drive Power (theoretical):	0.6 W	0.7 W	1.0 W
CW diffraction efficiency, at 2W max RF:	>85%	>85%	>85%
Bragg Angle:	6.4 mrad	7.0 mrad	8.3 mrad
Separation Angle:	12.8 mrad	13.9 mrad	16.6 mrad

* see foot notes.

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
 ISOMET CORP, 10342 Battlevue 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



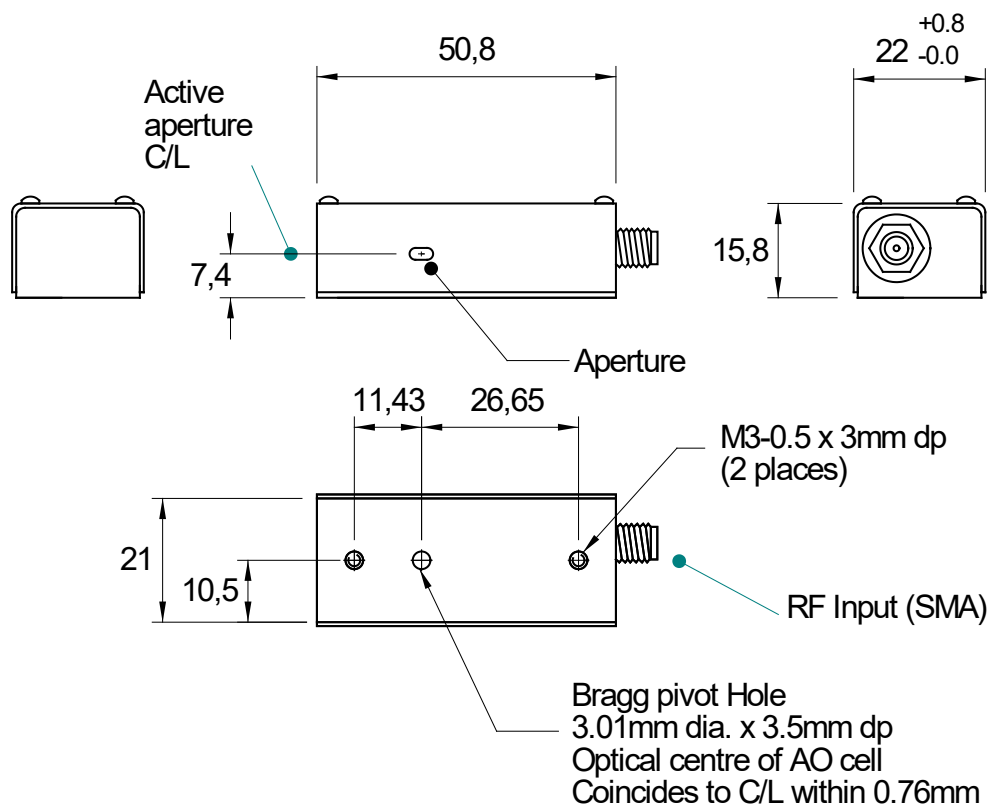
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OUTLINE DRAWING



Suffix (M): M3 metric fixing threads.

Mount device to heat conducting surface

RF DRIVE ELECTRONICS

Digital modulation: 523F-1

Analog modulation: 533F-1

Dual modulation: 553F-1

Tuneable driver with modulation:

RF5-100T-2

* 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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