

M1440-T200L-0.9



Acousto-Optic Modulator / Frequency Shifter

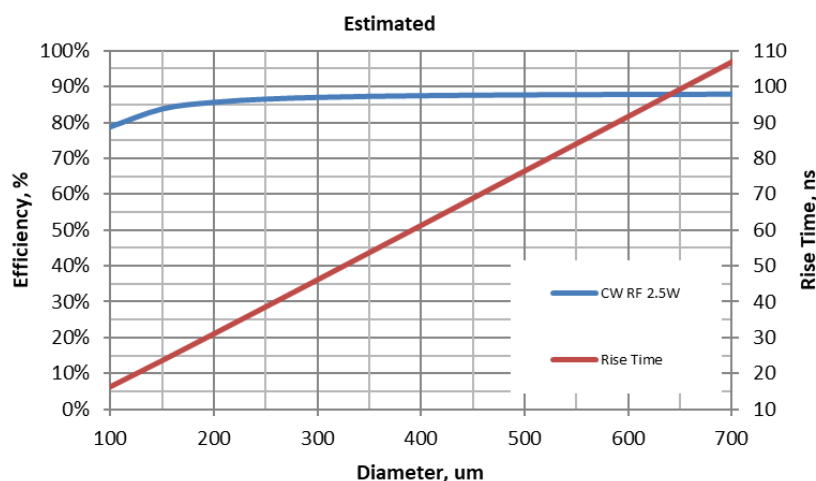
(PRELIMINARY)

0325

SPECIFICATIONS

Spectral Range:	0.36 >1.5 μ m
Standard A/R Wavelengths:	0.4-0.7 μ m*
Optical Power:	10 Watts *
Interaction Medium:	Tellurium Dioxide (TeO ₂)
Acoustic Velocity:	4.2mm/ μ s
Centre Frequency (fc):	200MHz
RF Bandwidth:	>50MHz
Input Impedance:	50 Ω Nominal
VSWR:	<1.5:1 @ fc
Max RF power:	2.0W
Clear Aperture:	3.5mm
Active Aperture Height:	0.9mm
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	670nm
Drive Power (theoretical):	1.0 W	1.1 W	1.8 W
CW diffraction efficiency:	>85%	>85%	>80%
Bragg Angle:	11.6 mrad	12.7 mrad	16.0 mrad
Separation Angle:	23.2 mrad	25.3 mrad	31.9 mrad

* see foot notes.

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

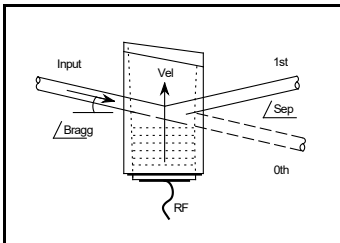
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Quality Assured.

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



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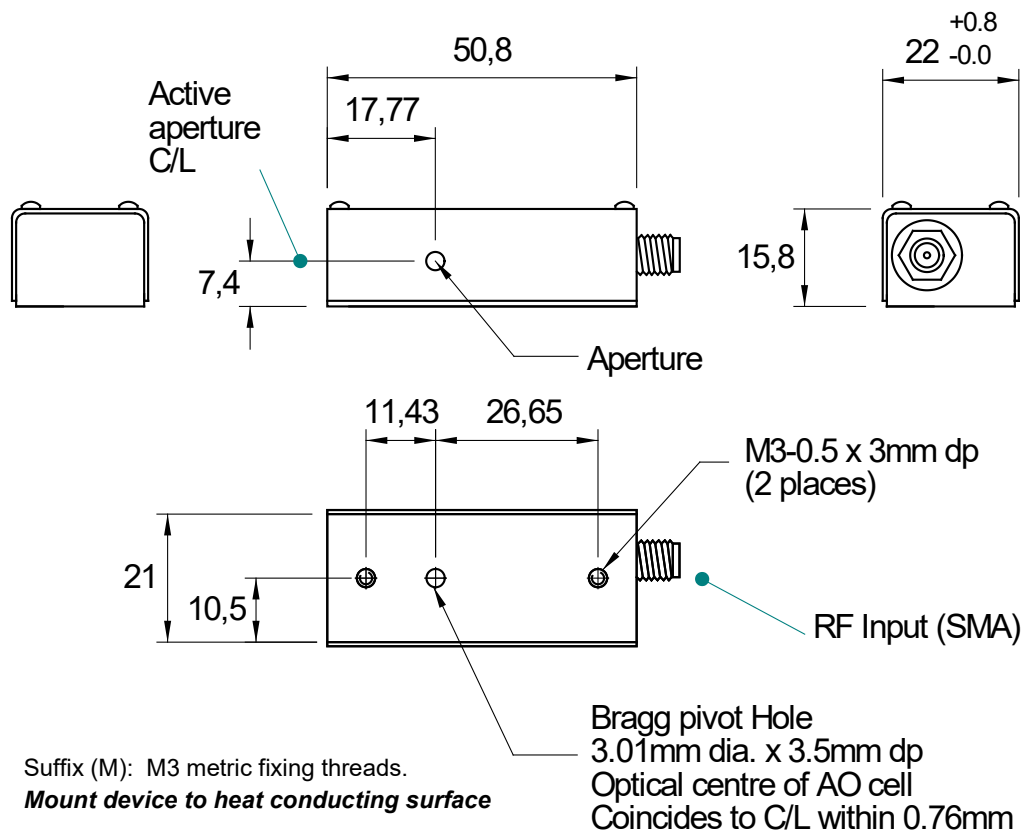


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OUTLINE DRAWING



RF DRIVE ELECTRONICS

Digital modulation: 525F-2

Analog modulation: 532F-2

Dual modulation: 555F-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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