

M1205-T110L-0.6, -1 (1550nm) Acousto-Optic Modulator



0421

APPLICATIONS

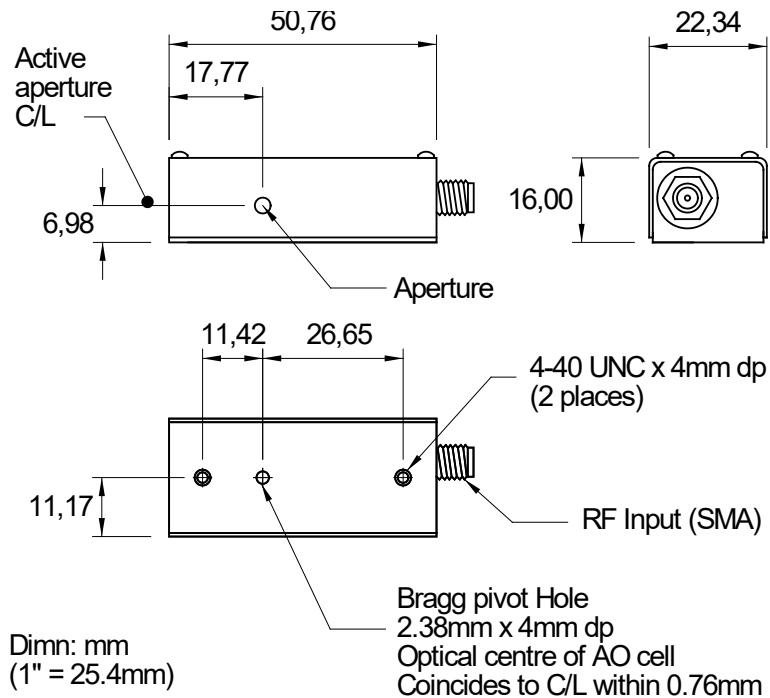
- Modulator
- Low Resolution Deflector
- Frequency Shifter

RF DRIVERS

Fixed Frequency with modulation
Tuneable with modulation

523F-2 / 533F-2 / 553F-2
630C-110 / iSK3-100T-1-1

OUTLINE DRAWING



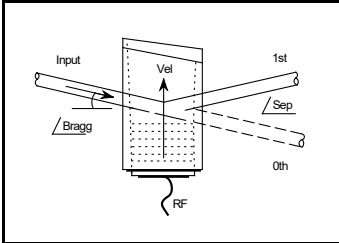
Option:

Metric fixing holes, M3-0.5 thread: add suffix -M

Mount device to heat conducting surface

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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Acousto-Optic Modulator



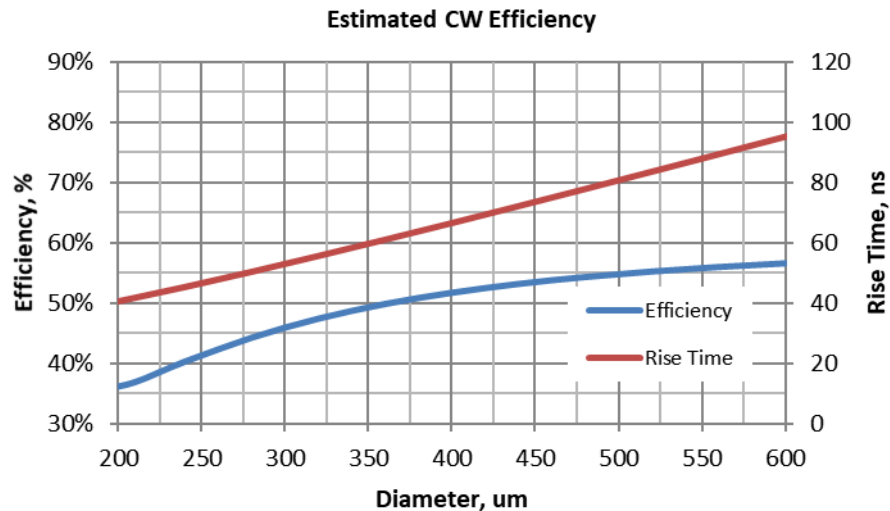
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SPECIFICATIONS

A/R Operating Wavelengths:	1550nm
Interaction Medium:	Tellurium Dioxide (TeO ₂)
Acoustic Velocity:	4.2mm/μs
Active Aperture:	1.0mm
Centre Frequency (CF):	110MHz
RF Bandwidth (minimum):	40MHz (+/- 20MHz)
Input Impedance:	50Ω Nominal
VSWR:	<1.5:1 @ 110MHz
DC Contrast Ratio:	>1000:1 min (>2000:1 typical)

Model:	M1205-T110L -0.6	-1
Active Aperture:	0.6mm	1.0mm
Peak RF Drive Power* :	2.9W	4.7W
(Maximum average or CW power = 1.8W).		
Bragg angle:	23.5 mrad	
Beam Separation:	47.0 mrad	
Static Insertion Loss:	< 3%	

PERFORMANCE vs. BEAM DIAMETER at 1550nm for T110L-1



Maximum average or CW power = 1.8W.

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