

# OAM1020-T110S-3

## Acousto-Optic Modulator

Off-Axis



0419

The OAM1020 is a high efficiency laser beam modulator, offering wide beam separation and >200KHz modulation bandwidth. Specific input beam polarization and orientation are required for correct operation.

### SPECIFICATIONS

Operating Wavelength:	532nm
Interaction Material:	TeO <sub>2</sub> (Off-Axis Mode)
Acoustic Velocity:	650 m/s (Nominal)
Active Aperture:	3mm
Centre Frequency (f <sub>c</sub> )	110MHz
RF Bandwidth (Δf)	50MHz
Input Impedance:	50Ω (Nominal)
VSWR:	< 1.5 :1 at f <sub>c</sub>
Laser Polarization:	Linear, Horizontal
Optical Power:	< 5W

### PERFORMANCE

Wavelength (nm):	532
RF Drive Power (Watts):	<0.8
Bragg Angle:	5.9° (Nominal)
Beam Separation @ 110 MHz:	5.0°
Diffraction Efficiency	≥85% min, >90% typ
Static Insertion loss	<3% max, <2% typ

### RECOMMENDED DRIVER

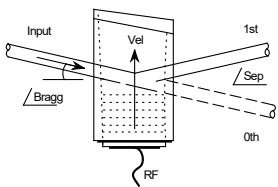
Model 523C-L (Digital Modulation)

Model 533C-L (Analog Modulation)

Model 553F-L (Dual Modulation)

**ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE**  
 ISOMET CORP, 10342 Battleview Parkway, Manassas, VA 20109, USA.  
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**Quality Assured.**  
**In-house: Crystal Growth,**  
**Optical Polishing,**  
**A/R coating, Vacuum Bonding**



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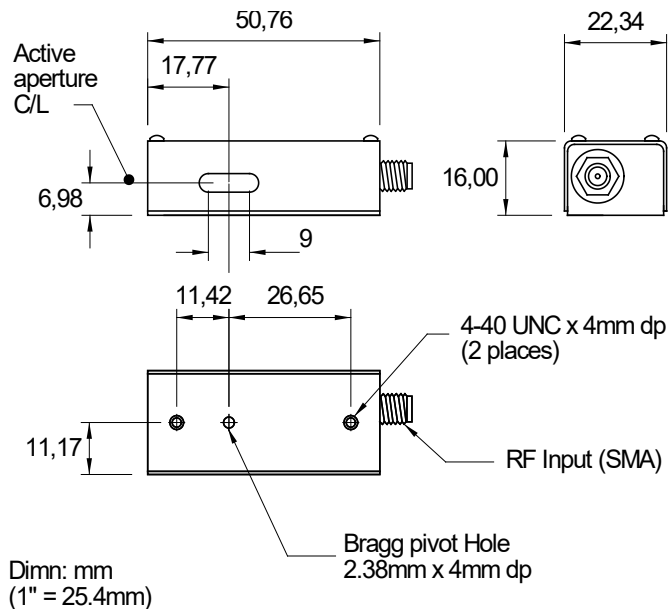


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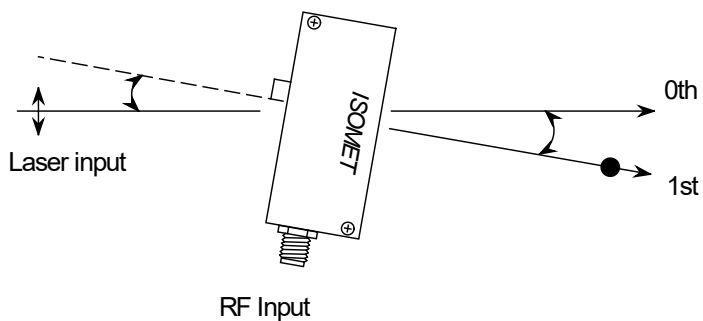
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### OUTLINE DRAWING



### ORIENTATION



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