

OAM1020

Acousto-Optic Modulator

Off-Axis



0306

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

PERFORMANCE

Wavelength (nm):	532
RF Drive Power (Watts):	<0.8
Bragg Angle (mrad @ 110MHz)	5.9° (Nominal)
Beam Separation (mrad) @ 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)

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

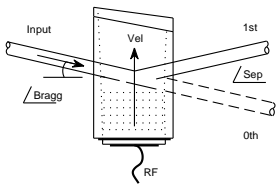
ISOMET CORP, 5263 Port Royal Rd, Springfield, VA 22151, USA.

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Quality Assured.

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



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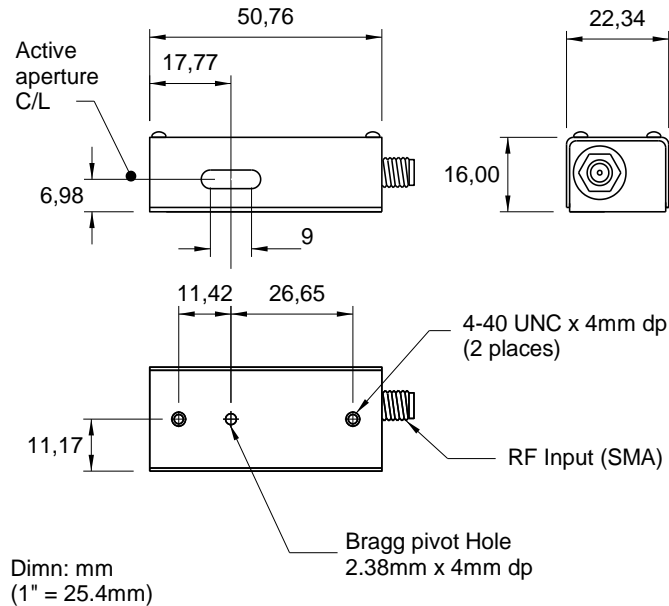
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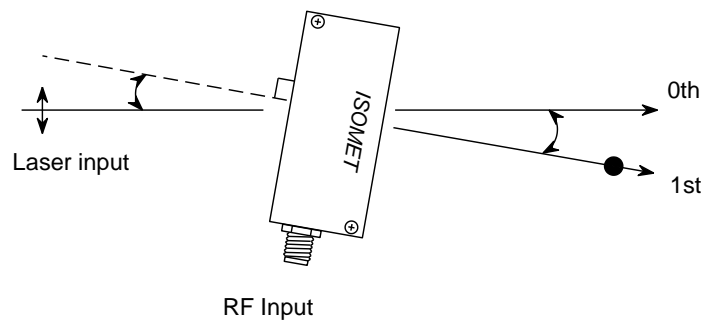


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OUTLINE DRAWING



ORIENTATION



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