

OAM-1060

Acousto-Optic Modulator

Off-Axis



0206

Preliminary Data

The OAM-1060 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:	2mm (3mm option)
Centre Frequency (f _c):	80MHz
RF Bandwidth (Δf):	40MHz
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):	<0.35
Bragg Angle (Deg @ 80MHz):	4.3° (Nominal)
Beam Separation (Deg) @ 80 MHz:	3.6°
Diffraction Efficiency	≥85% min, >90% typ
Static Insertion loss	<3% max, < 2% typ

RECOMMENDED DRIVER

Model 522C-L (Digital Modulation)

Model 532C-L (Analog Modulation)

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

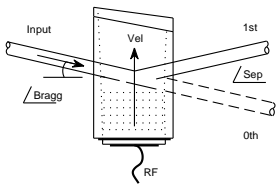
ISOMET CORP, 5263 Port Royal Rd, Springfield, VA 22151, USA.

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Quality Assured.

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



OAM-1060

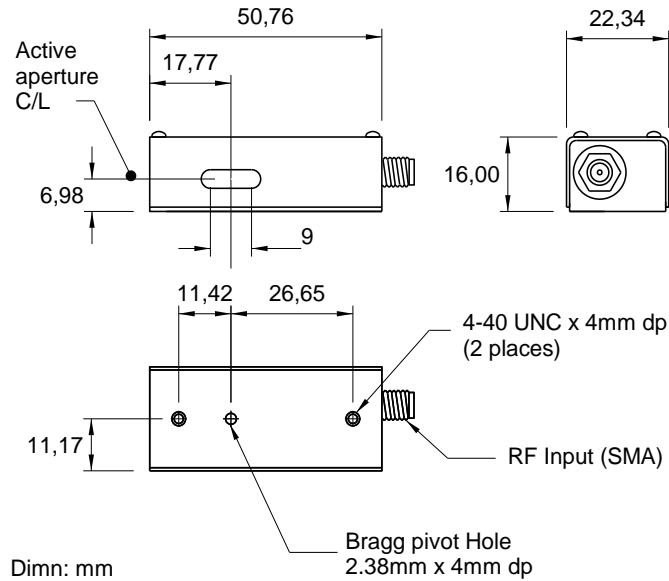
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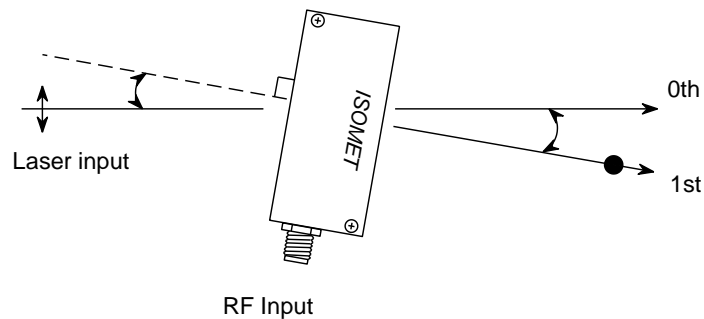
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OUTLINE DRAWING



Dimn: mm
(1" = 25.4mm)

ORIENTATION



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