

# OAD1020

## Acousto-Optic Deflector

Off-Axis



1106

The OAD1020 offers high diffraction efficiency over a wide scan angle at 532nm. Specific input beam polarization and orientation are required for correct operation

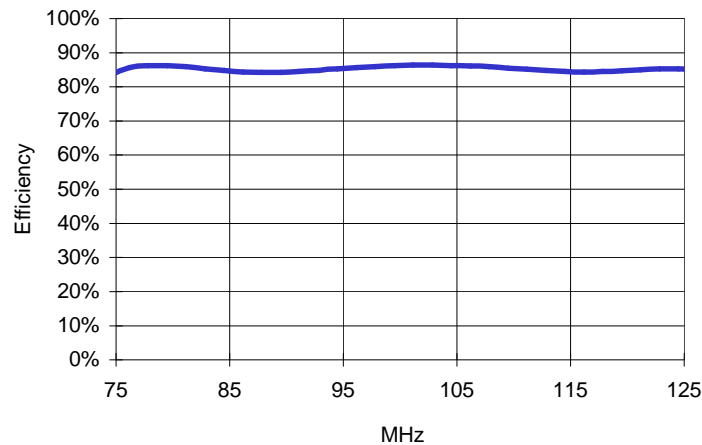
### SPECIFICATIONS

Operating Wavelength:	532nm
Interaction Material:	TeO <sub>2</sub> (Off-Axis Mode)
Active Aperture:	2mm H x 8mm L
Centre Frequency (f <sub>c</sub> ):	100MHz
RF Bandwidth (Δf):	50MHz
Input Impedance:	50Ω (Nominal)
VSWR:	< 2.5 : 1 across Δf
Access Time (τ):	12.3μs
τΔf Resolution:	> 600 Spots
Laser Polarization:	Linear, Horizontal

### PERFORMANCE

Wavelength (nm):	532
RF Drive Power (Watts):	<0.3
Bragg Angle (mrad @ 100MHz):	5.3° (Nominal)
Beam Separation (mrad) @ 100 MHz:	4.6°
Scan Angle (Degrees):	2.3°
Diffraction Efficiency	≥80%

### TYPICAL FIRST ORDER DIFFRACTION EFFICIENCY RESPONSE



**ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE**

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

Tel: (703) 321 8301 Fax: (703) 321 8546

E-mail: [ISOMET@ISOMET.COM](mailto:ISOMET@ISOMET.COM) Web Page: [WWW.ISOMET.COM](http://WWW.ISOMET.COM)

**Quality Assured.**

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



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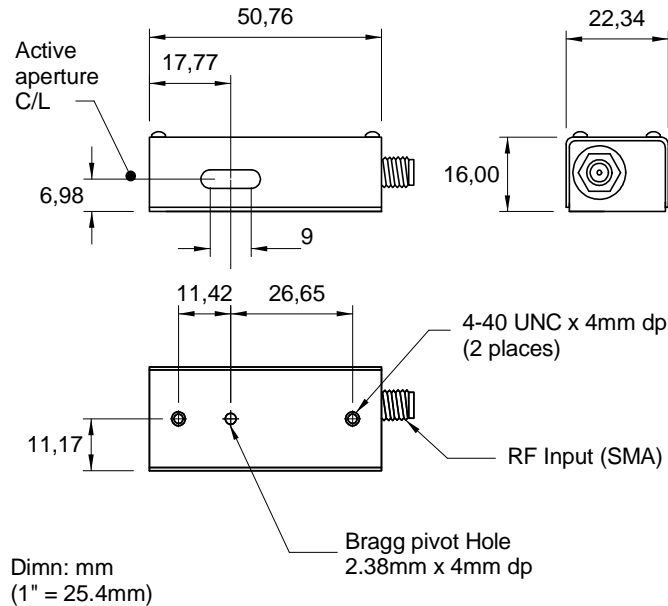
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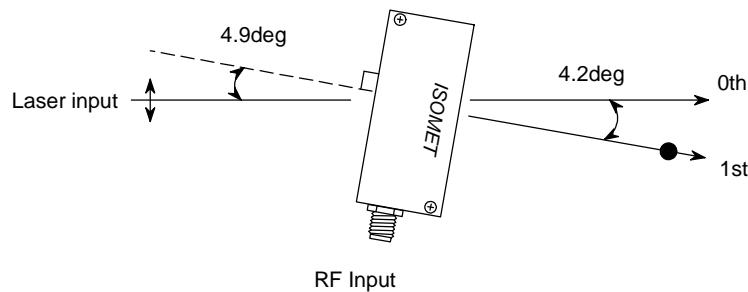


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### OUTLINE DRAWING



### ORIENTATION



### RECOMMENDED DRIVERS

iDDS-1SE Frequency Synthesizer plus 503C-3 Amplifier  
 or  
 620C / 630C-100 Variable Frequency Driver

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