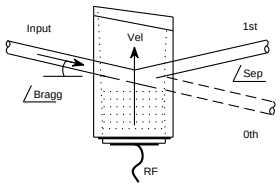


OAD948

Acousto-Optic Deflector

Off-Axis

0913

The OAD-948 offers high diffraction efficiency over a wide scan angle at 488nm. Specific input beam polarization and orientation are required for correct operation

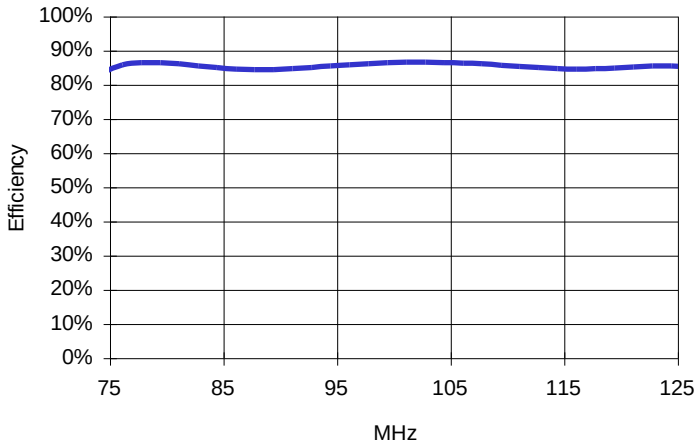
SPECIFICATIONS

Operating Wavelength:	488nm
Interaction Material:	TeO_2 (Off-Axis Mode)
Active Aperture:	3mm H x 8mm L
Centre Frequency (f_c)	100MHz
RF Bandwidth (Δf)	50MHz
Input Impedance:	50Ω (Nominal)
VSWR:	< 2.5 : 1 across Δf
Access Time (τ):	12.3μs
$\tau\Delta f$ Resolution:	> 600 Spots
Laser Polarization:	Linear, Horizontal

PERFORMANCE

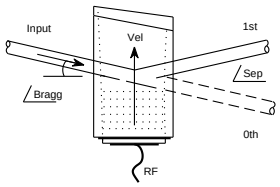
Wavelength (nm):	488
RF Drive Power (Watts):	<0.3
Bragg Angle (Deg @ 100MHz):	4.9º (Nominal)
Beam Separation (Deg @ 100 MHz):	4.2º
Scan Angle (Degrees):	2.1º
Diffraction Efficiency	≥80%

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 ***Web Page: WWW.ISOMET.COM***

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



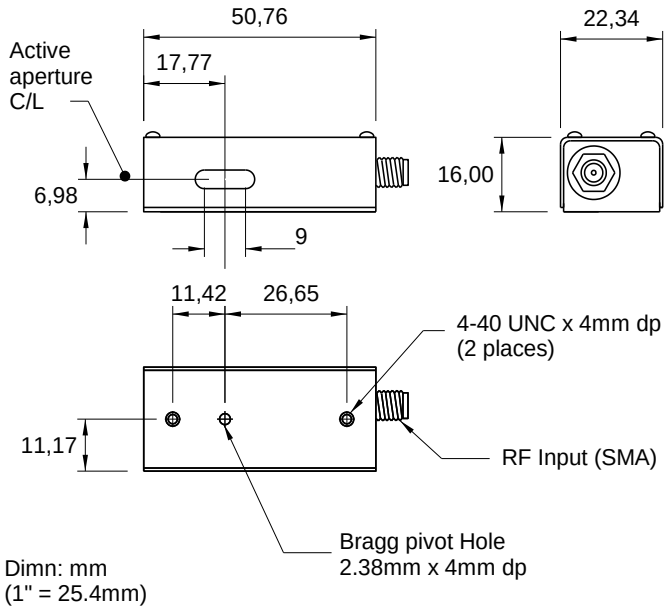
OAD948

Acousto-Optic Deflector

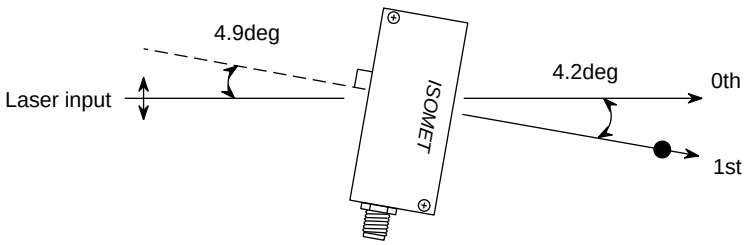
Off-Axis

0913

OUTLINE DRAWING



ORIENTATION



RF Input

RECOMMENDED DRIVERS

iSPA-SF1 Frequency Synthesizer-Amplifier
or
620C / 630C-100 Variable Frequency Driver

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 ***Web Page: WWW.ISOMET.COM***

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