

OAD948-T100S-3 (488nm)



Acousto-Optic Deflector

Off-Axis

4822

The OAD948 offers high diffraction efficiency over a wide scan angle at 488nm. Specific input beam polarization and orientation are required for correct operation

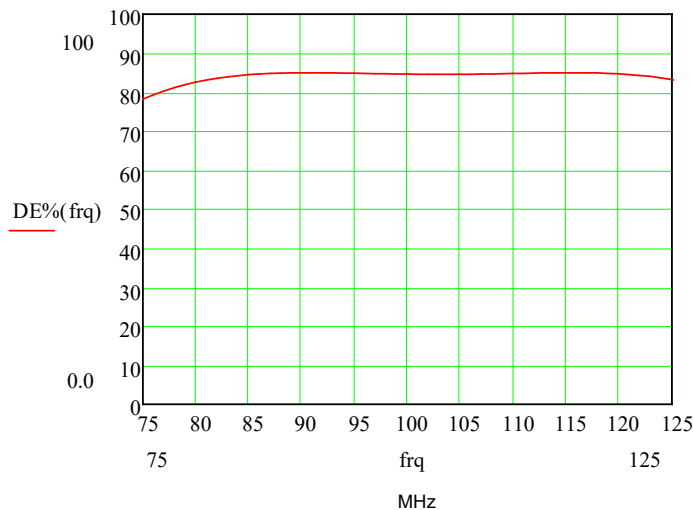
SPECIFICATIONS

Operating Wavelength:	488nm
Interaction Material:	TeO ₂ (Off-Axis Mode)
Acoustic Velocity:	651m/s
Active Aperture:	3mm H x 8mm L
Centre Frequency (f _c):	100MHz (nominal)
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

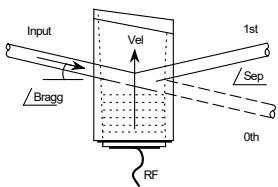
Wavelength:	488nm
RF Drive Power (Watts):	< 0.5W
Input Angle (f _c = 100MHz):	4.1° (nominal)
Beam Separation:	4.2°
Scan Angle (ΔF = 40 MHz):::	2.1°
Diffraction Efficiency	≥80%

ESTIMATED FIRST ORDER DIFFRACTION EFFICIENCY RESPONSE



ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
 ISOMET CORP, 10342 Battlevue Parkway, Manassas, VA 20109, 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-T100S-3 (488nm)

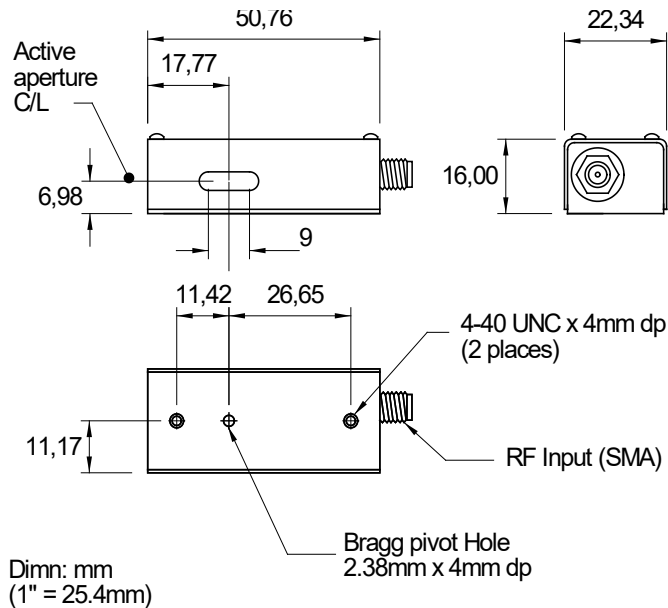


Acousto-Optic Deflector

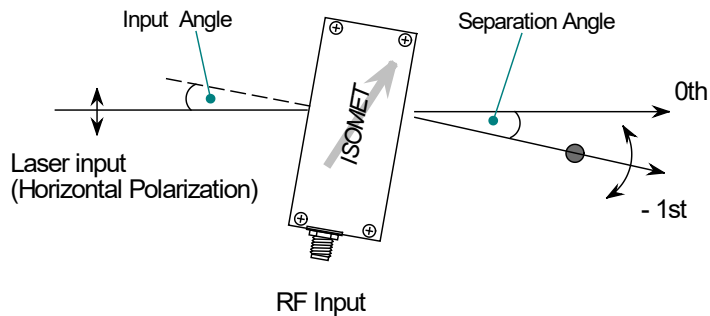
Off-Axis

4822

OUTLINE DRAWING



ORIENTATION



RECOMMENDED DRIVERS

iMS4-L Synthesizer with 803F-L Amplifier
or
620C / 630C-100 Variable Frequency Driver

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
ISOMET CORP, 10342 Battlevue Parkway, Manassas, VA 20109, 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