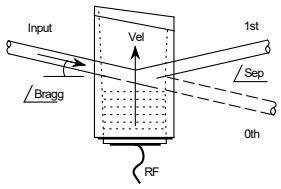

OAD1343-T70S-9

Off-Axis AO Deflector

Off-Axis

4421

The OAD1343 offers high throughput efficiency over a wide scan angle in the NIR wavelength range.
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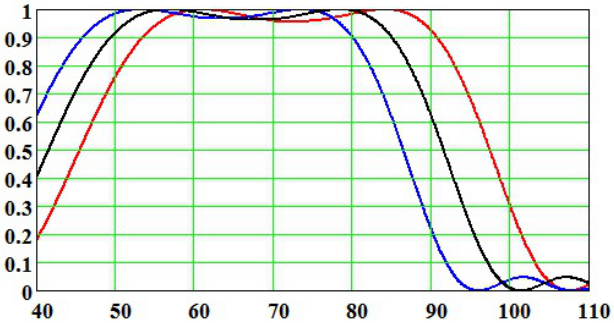
SPECIFICATIONS

A/R wavelength:	700-900nm
Optimum operating range:	730-820nm
Interaction Material:	TeO_2 (off-axis shear)
Acoustic Velocity:	667m/s
Center Frequency (f_c):	60 -75MHz (wavelength dependent)
RF Bandwidth:	45MHz
Diffraction Bandwidth (to -0.5dB points):	>25MHz, 30MHz typical
Scan Angle/Axis (780nm, 30MHz):	2.0º
Separation Angle (780nm, 75MHz):	5.0º
Input Polarization (Required):	Linear, horizontal w.r.t. base
Output polarization:	Linear, vertical w.r.t. base
Active Aperture:	9mm x 9mm
Max RF Power:	2.5W (nominal)
Input impedance:	50 ohm
Access Time (9mm beam):	13.5usec
Resolution (9mm beam)	400 resolvable spots
(Non-resolvable spots limited by RF driver frequency resolution)	
Efficiency across scan	>80%, 85% typical

Relative Diffraction Response vs Frequency

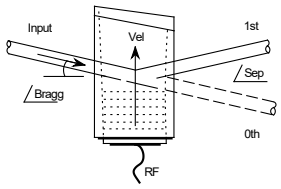


(+/- 5MHz for best scan)

820
780
730

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
ISOMET CORP, 10342 Battleview 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



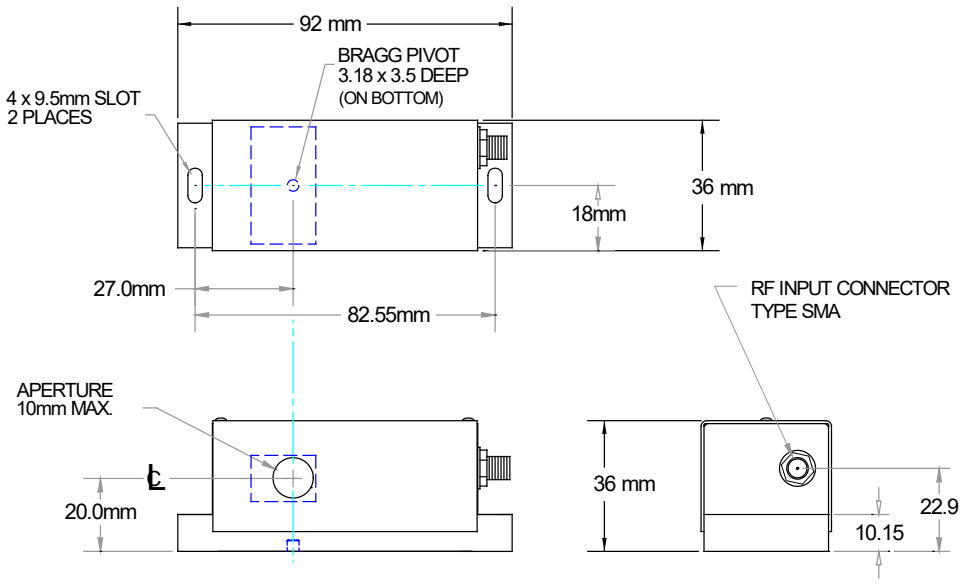
OAD1343-T70S-9

Off-Axis AO Deflector

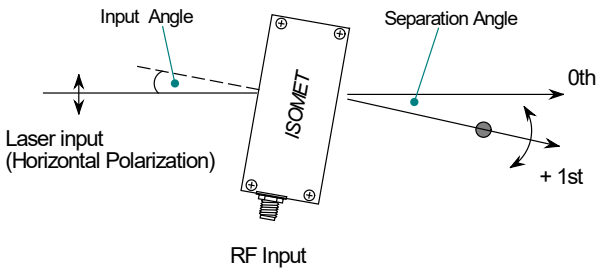
Off-Axis

4421

OUTLINE DRAWING



Preferred Orientation



Recommended Drive Electronics

iMS4-L (-P) Frequency Synthesizer and AF0-80T-4 amplifier

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