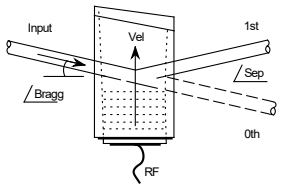

OAD1344-T70S-9

Off-Axis AO Deflector

Off-Axis

4421

The OAD1344 offers high throughput efficiency over a wide scan angle in the NIR wavelength range.
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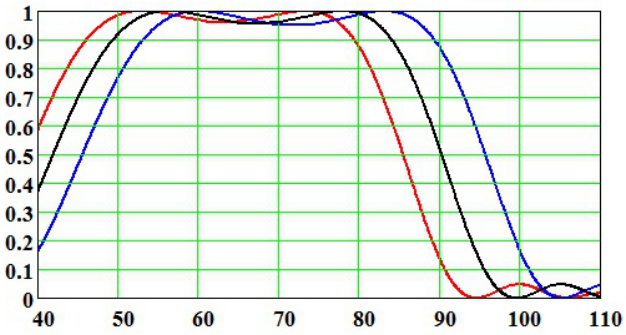
SPECIFICATIONS

A/R Wavelength:	800-1000nm
Optimum operation range:	830-920nm
Interaction Material:	TeO_2 (off-axis shear)
Acoustic Velocity:	681m/s
Center Frequency (f_c):	60 -75MHz (wavelength dependent)
RF Bandwidth:	45MHz
Diffraction Bandwidth (to -0.5dB points):	>25MHz, 30MHz typical
Scan Angle/Axis (880nm, 30MHz):	2.2º
Separation Angle (880nm, 68MHz):	5º
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:	3.0W (nominal)
Input impedance:	50 ohm
Access Time (9mm beam):	13.2usec
Resolution (9mm beam)	395 resolvable spots

(Non-resolvable spots limited by RF driver frequency resolution)

Efficiency across scan	>80%, >85% typical

Relative Diffraction Response vs Frequency

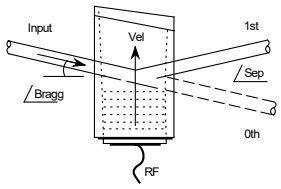


(+/- 5MHz for best scan)

830
880
930

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



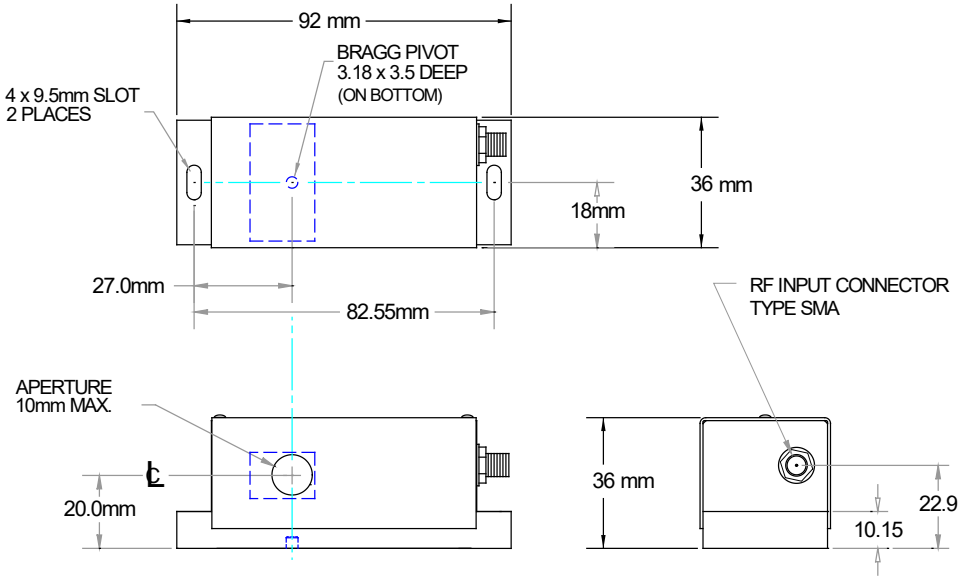
OAD1344-T70S-9

Off-Axis AO Deflector

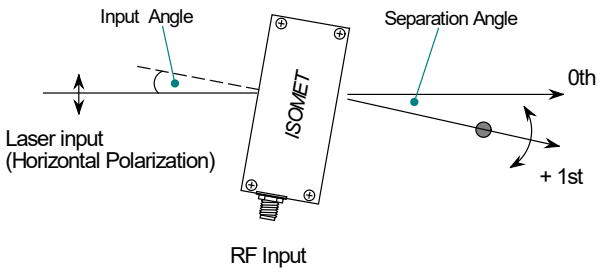
Off-Axis

4421

OUTLINE DRAWING



Preferred Orientation



Recommended Drive Electronics

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

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