

## OAD1444-T60S-9

### Off-Axis AO Deflector

Off-Axis



4423

The OAD1444 offers high throughput efficiency over a wide scan angle in the NIR wavelength range.

#### SPECIFICATIONS

A/R Wavelength:	900-1100nm
Optimum operation range:	1064nm
Interaction Material:	TeO <sub>2</sub> (off-axis shear)
Acoustic Velocity:	691m/s
Center Frequency (f <sub>c</sub> ):	60 -70MHz (wavelength dependent)
RF Bandwidth:	40MHz

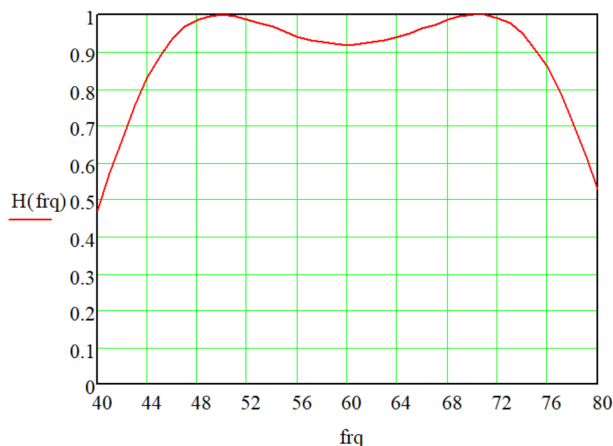
Diffraction Bandwidth (to -0.5dB points):	>25MHz, 30MHz typical
Scan Angle/Axis (1064nm, 30MHz):	2.6°
Separation Angle (1064nm, 60MHz):	5.23°

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:	4.0W (nominal)
Input impedance:	50 ohm

Access Time (9mm beam):	13.2usec
Resolution (9mm beam)	395 <u>resolvable</u> spots
(Non-resolvable spots limited by RF driver frequency resolution)	

Efficiency across scan.	>80%, >85% typical
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#### Relative Diffraction Response vs Frequency



(+/- 5MHz for best scan)

#### ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

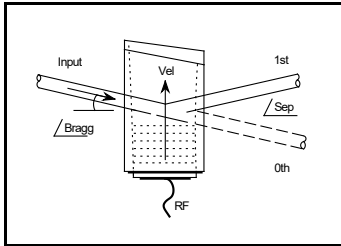
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#### Quality Assured.

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



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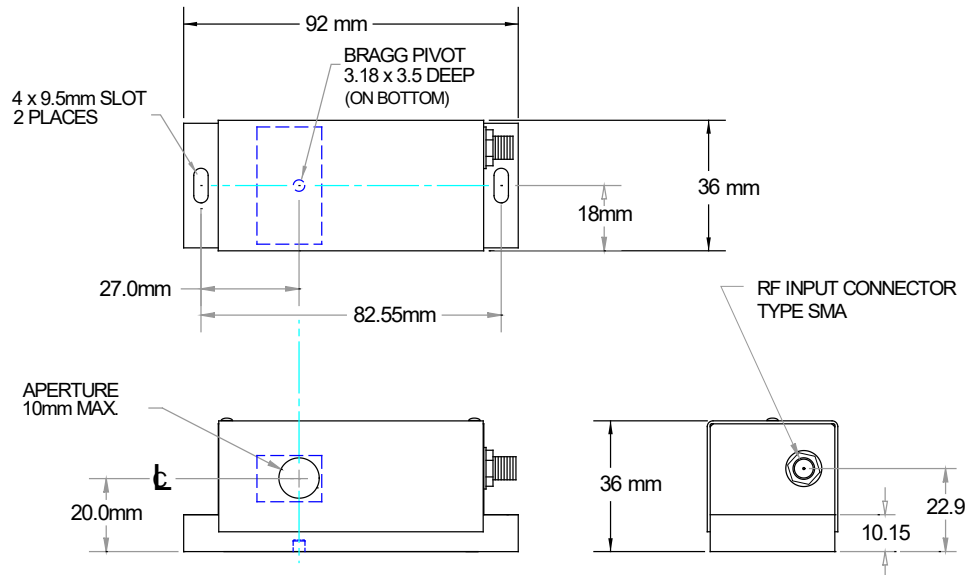
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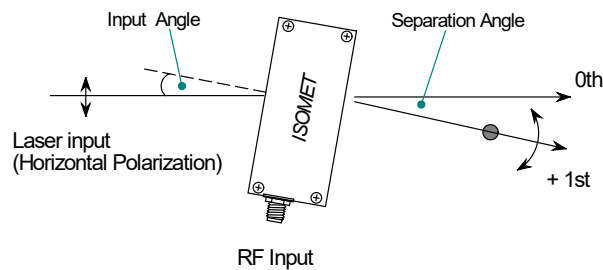


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### OUTLINE DRAWING



### Preferred Orientation



### Recommended Drive Electronics

iMS4-L (-P) Frequency Synthesizer and AF0-60T-4

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