

OAD1344-XY-T70S-9



Dual Axis AO Deflector

Off-Axis

0421

The OAD1344-XY offers high throughput efficiency over a wide scan angle in the NIR wavelength range. This dual axis deflector consists of two AO deflector crystals mounted orthogonally in one assembly, each with independent angle adjustment. There is no requirement for input or intervening optics between the crystals.

SPECIFICATIONS

A/R Wavelength: 800-1000nm Optimum operation range: 830-920nm

Interaction Material: TeO₂ (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): 2.2° Separation Angle (880nm, 68MHz): 5°

Input polarization (required): Linear, horizontal w.r.t. base Output polarization: Linear, horizontal w.r.t. base

Active Aperture: 9mm x 9mm

Max RF Power: 3.0W/axis (nominal)

Input impedance: 50 ohm

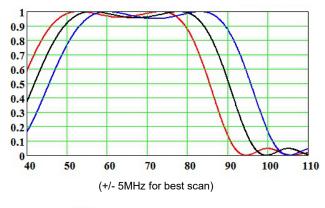
Access Time (9mm beam): 13.2usec

Resolution (9mm beam) 395 x 395 <u>resolvable</u> spots (Non-resolvable spots limited by RF driver frequency resolution)

Efficiency across scan 80% (typ'), >60% per axis

Throughput efficiency >35% total

Relative Diffraction Response vs Frequency (per axis)





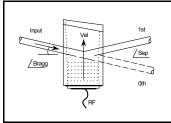
ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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



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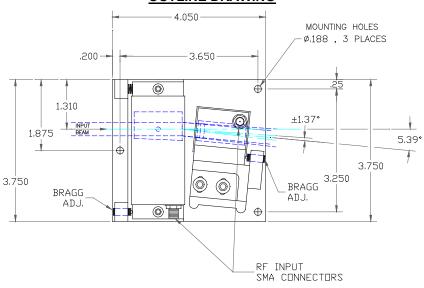


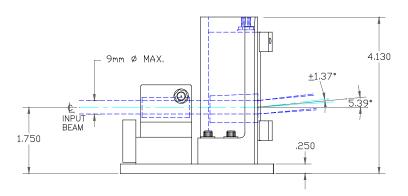
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OUTLINE DRAWING





(Angles for guidance only. Values depend on model variant, wavelength and centre frequency used)

Recommended Drive Electronics

iMS4 Frequency Synthesizer plus 2x AF0-80T-4 amplifiers

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