

# ODXY1020-T100S-2

## Acousto-Optic Deflector

Off-Axis



2419

The OAD1020-XY offers high diffraction efficiency over a wide scan angle at 532nm. Specific input beam polarization and orientation are required for correct operation.

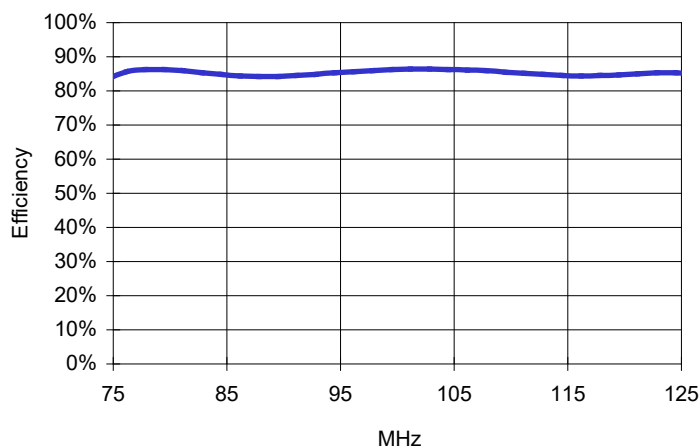
### SPECIFICATIONS

Operating Wavelength:	532nm
Interaction Material:	TeO <sub>2</sub> (Off-Axis Mode)
Active Aperture:	2mm H x 2mm L
Centre Frequency (f <sub>c</sub> ):	100MHz
RF Bandwidth (Δf):	50MHz
Input Impedance:	50Ω (Nominal)
VSWR:	< 2.5 : 1 across Δf
Access Time (τ):	3μs
τΔf Resolution:	> 150 x 150 Resolvable Spots
Laser Polarization:	Linear, Vertical

### PERFORMANCE

Wavelength (nm):	532
RF Drive Power (Watts):	<0.3
Bragg Angle @ 100MHz:	5.3° (Nominal)
Beam Separation @ 100 MHz:	4.6°
Scan Angle (Degrees):	2.3° x 2.3°
Diffraction Efficiency, X-Y	≥ 60%

### TYPICAL DIFFRACTION EFFICIENCY RESPONSE PER AXIS



#### ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

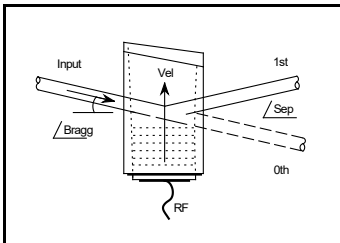
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#### Quality Assured.

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



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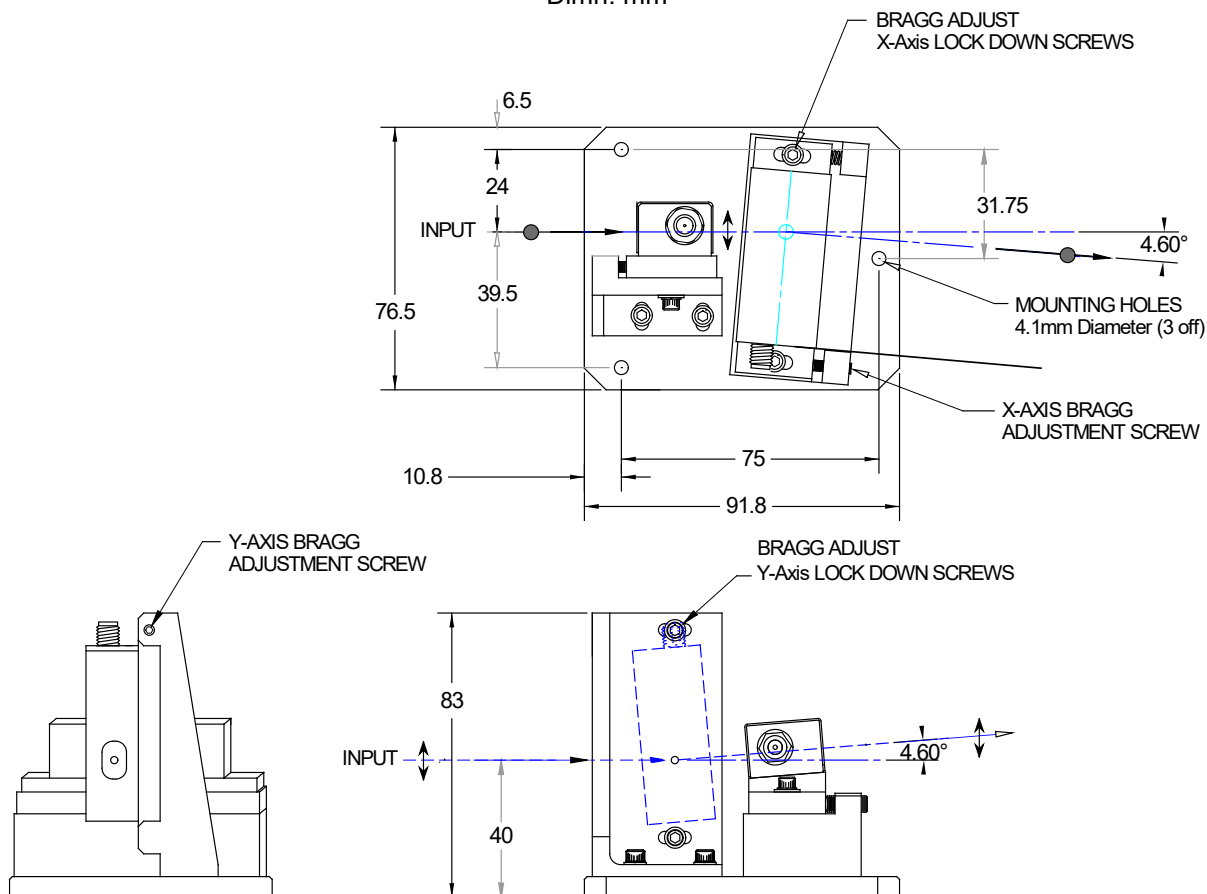
Off-Axis



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### OUTLINE DRAWING

Dimn: mm



### RECOMMENDED DRIVERS

IMS4-L (-P) synthesizer plus 803C-2 amplifiers (x2)  
or  
620C / 630C-100 Variable Frequency Driver

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