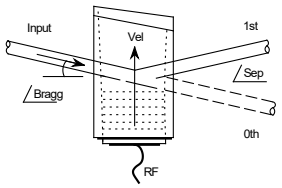


ODXY1441CL-T95S-3

Acousto-Optic Deflector

Off-Axis

2434

The ODXY1441 dual axis deflector offers high diffraction efficiency over a wide scan angle at 532nm. Specific input beam polarization and orientation are required for correct operation. The crystal faces are polished to provide nominal colinear operation (Centre of X-Y scan colinear with input beam path).

SPECIFICATIONS

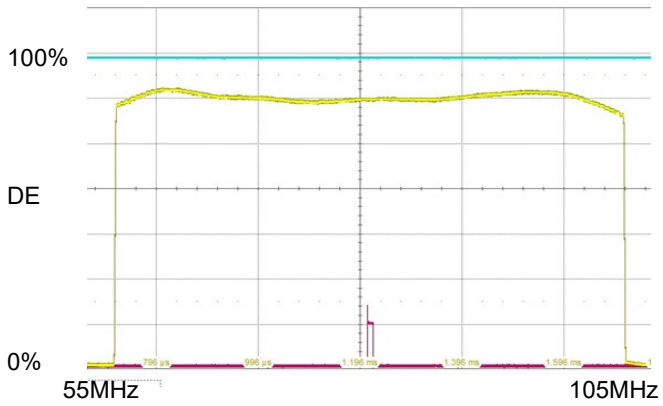
Operating Wavelength:	488nm, 532nm. Please specify.
Interaction Material:	TeO_2 (Off-Axis Mode)
Active aperture:	3.5mm H x 3.5mm L
Centre Frequency (f_c)	100MHz (+/- 10% for best efficiency across Δf.)
RF Bandwidth (Δf)	50MHz
Input Impedance:	50Ω (Nominal)
VSWR:	< 2.5:1 across Δf
Access Time (τ):	5.3μs
$\tau\Delta$f Resolution:	> 256 x 256 resolvable Spots
Input Laser Polarization:	Linear, Vertical

PERFORMANCE

Wavelength:	**488nm**	**532nm**
RF Drive Power	0.5W	0.6W
Centre frequency f_c	95MHz	80MHz
Diffraction Bandwidth dF	50MHz	50MHz
Scan Angle over dF:	2.2º x 2.2º	2.3º x 2.3º

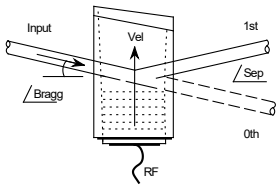
Input Angle:	0º nominal (+/- 1deg)
Zero order beam Separation @ f_c:	~4.6º
Insertion Loss	< 5%
Total Diffraction Efficiency, X-Y	≥ 60%

Typical Diffraction Efficiency Response *PER AXIS* (532nm)



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



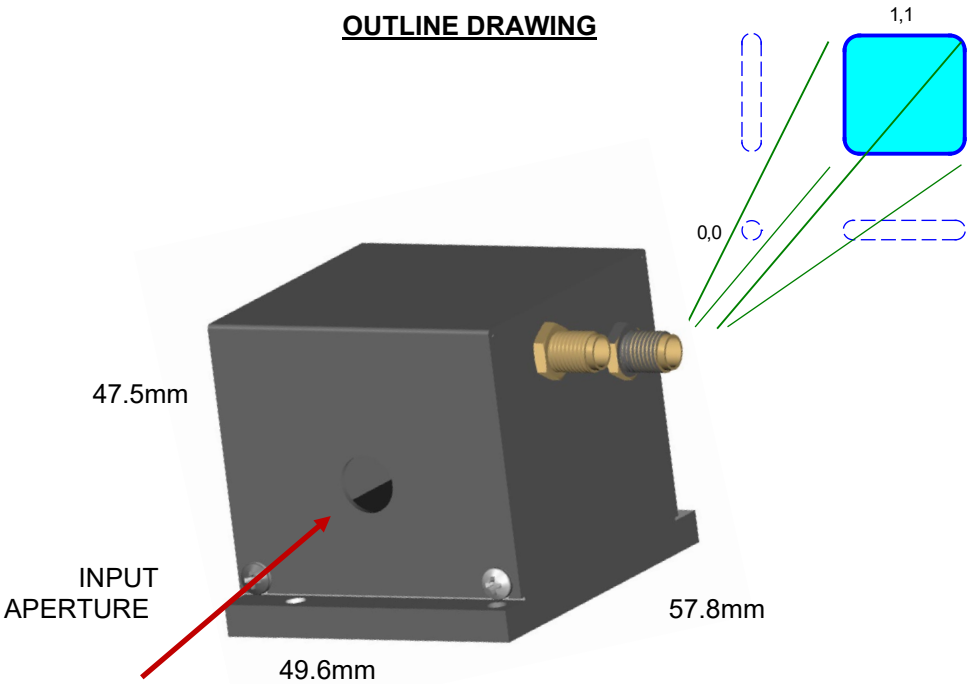
ODXY1441CL-T95S-3

Acousto-Optic Deflector

Off-Axis

2434

OUTLINE DRAWING



Input to Y-axis, output from X-axis
Input beam axis 23mm above mounting surface, 28.5mm from RF connector face

RECOMMENDED DRIVERS

iMS4-L (-P) synthesizer plus AG0-100T-1 amplifiers (x2)

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