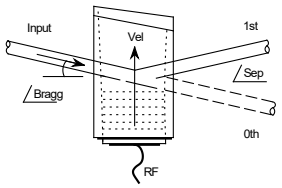


OAD1441CL-T90S-4

Acousto-Optic Deflector

Off-Axis

2434

The OAD1441 off-axis TeO_2 deflector offers high diffraction efficiency over a wide scan angle at 488nm / 532nm / 633nm. Specific input beam polarization and orientation are required for correct operation. The crystal faces are polished to provide nominal colinear operation (centre of scan colinear with input beam path).

SPECIFICATIONS

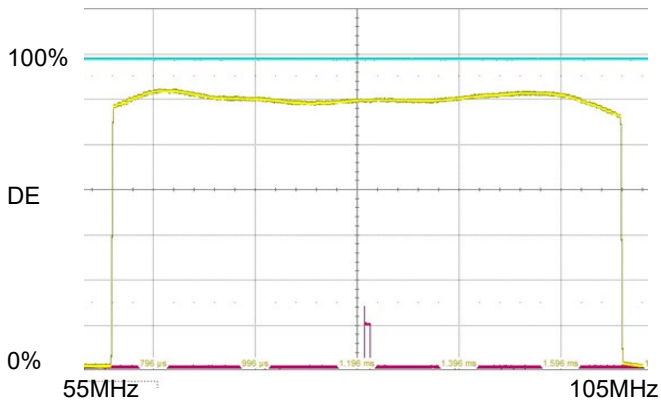
Operating Wavelength:	488nm > 633nm (Please specify)
Interaction Material:	TeO_2 (Off-Axis Mode)
Maximum active aperture:	4mm H x 4mm L
Clear aperture:	7mm dia.
Centre Frequency (f_c)	100MHz. Wavelength dependent (+/- 10% for best efficiency across Δf.)
RF Bandwidth (Δf)	> 50MHz
Input Impedance:	50Ω (Nominal)
VSWR:	< 2:1 across Δf
Access Time (τ),3.5mm beam:	5.3μs
$\tau\Delta f$ Resolution, 3.5mm beam:	> 256 resolvable spots
Input Laser Polarization:	Linear, Horizontal to base

PERFORMANCE

Wavelength:	**488nm**	**532nm**	**633nm**
RF Drive Power	0.5W	0.6W	0.8W
Centre frequency f_c	95MHz	80MHz	65MHz
Diffraction Bandwidth dF	50MHz	50MHz	40MHz
Scan Angle over dF:	2.2º	2.3º	2.2º

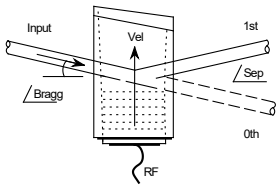
Input Angle:	0º nominal (+/- 1deg)
Zero order beam Separation @ f_c:	~4.6º
Diffraction Efficiency, DE	> 80%

Typical Diffraction Efficiency Response (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



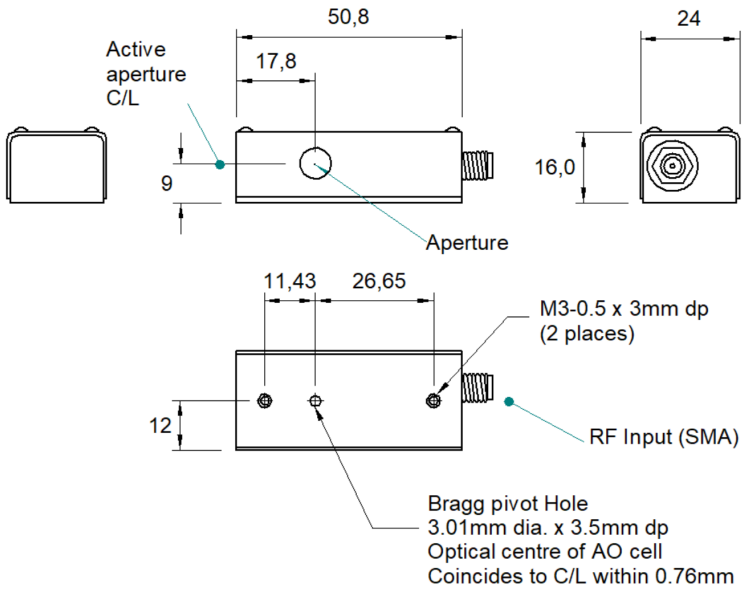
OAD1441CL-T90S-4

Acousto-Optic Deflector

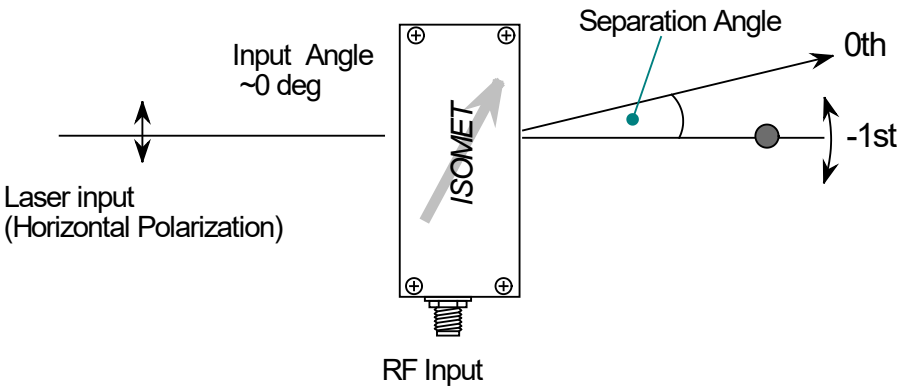
Off-Axis

2434

OUTLINE DRAWING



ORIENTATION



RECOMMENDED DRIVERS

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

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