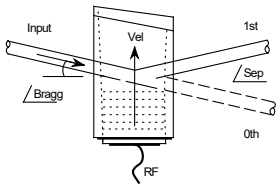


D1445M-T220L-1.5 (-2)

Acousto-Optic Deflector

ISOMET

0125

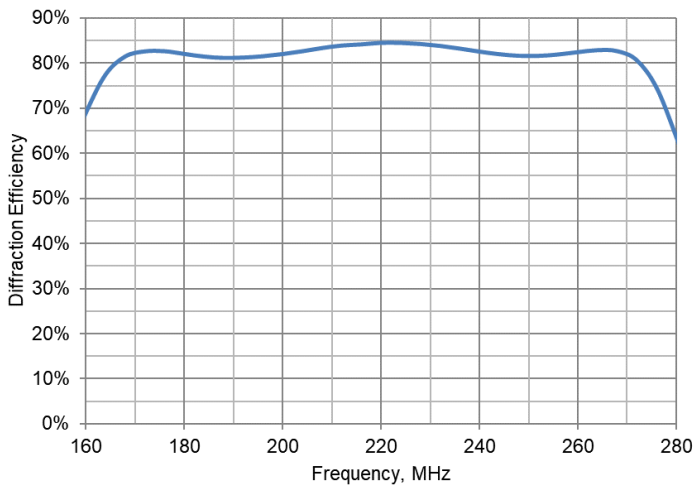
The D1445-T220L is an AO deflector designed for operation in the deep blue spectrum. This deflector incorporates two section acoustic beam steering to produce an efficient uniform scan response. Applications include high speed, multi-point or continuous beam scanning.

SPECIFICATIONS

Spectral Range:	0.36 > 1.5μm
Operating A/R Wavelengths:	360-420nm or 390-440nm
Optical Power:	5 Watts **
Interaction Medium:	Tellurium Dioxide (TeO_2)
Acoustic Velocity:	4.2mm/μs
Centre Frequency (Fc):	220MHz (+/- 15% for best sweep)
RF Bandwidth:	>85MHz, 100MHz typical
Input Impedance:	50Ω nominal.
Typical resolution, 2mm beam width:	~40 spots
VSWR:	<2:1 @ Fc
Clear Aperture:	2.5mmH x 5mmW
Active Aperture Height:	-1.5 = 1.5mm, or -2 = 2mm
Static Insertion Loss	<3% at 400nm
Reflectivity:	< 0.5%/surface
Laser Polarization:	Vertical preferred

	399nm	**411nm**
Bragg Angle:	10.45mrad	10.76mrad
Scan Angle, 92MHz sweep:	8.75mrad	9.00mrad
RF Power (total):	< 1.5W	< 1.5W

ESTIMATED SCAN PERFORMANCE at 399nm *

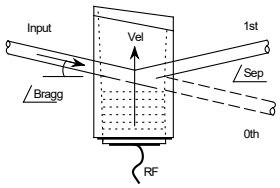


* Single mode input

** For higher powers please contact Isomet

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

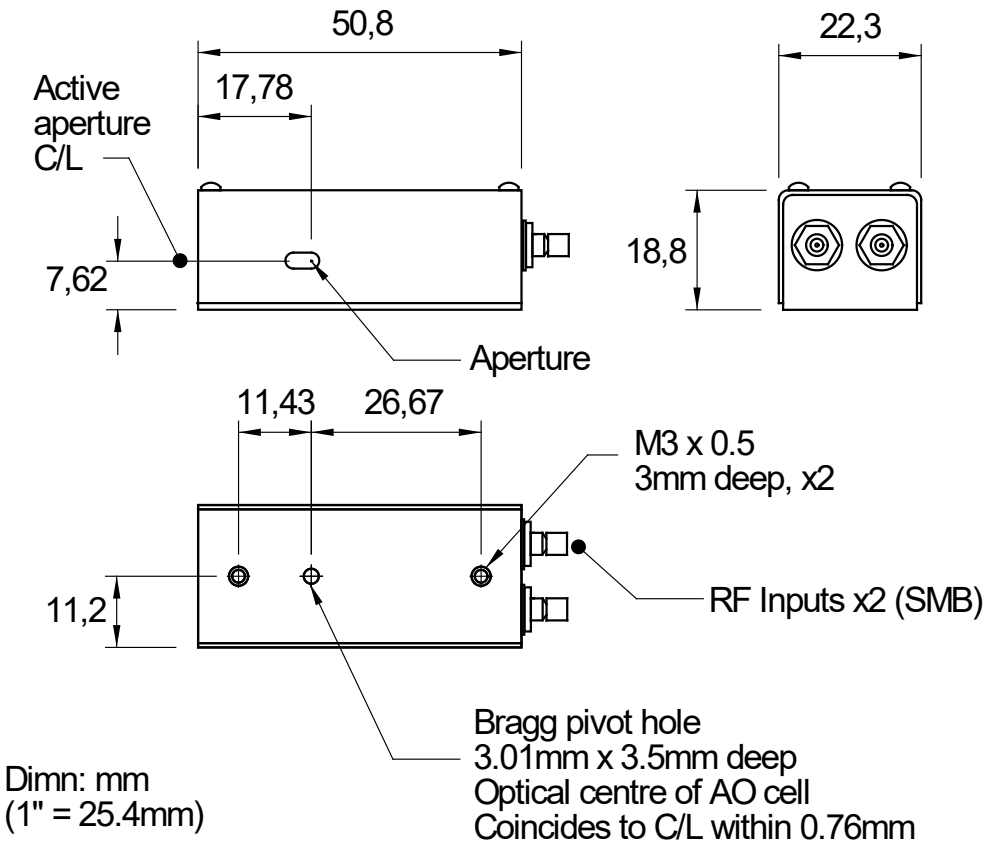


D1445M-T220L-1.5 (-2)

Acousto-Optic Deflector

0125

OUTLINE DRAWING
(Metric threads)



RF DRIVERS

Isomet Synthesizer: iMS2-HF + (2x) AF0-200T-1-1 amplifiers.

External freq' source: BSM1319-220 splitter/delay module + (2x) AF0-200T-1-1 amplifiers.

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