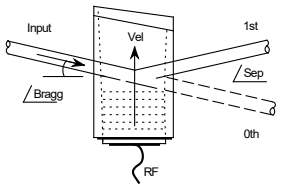


D1412-T80L-3

Acousto-Optic Modulator

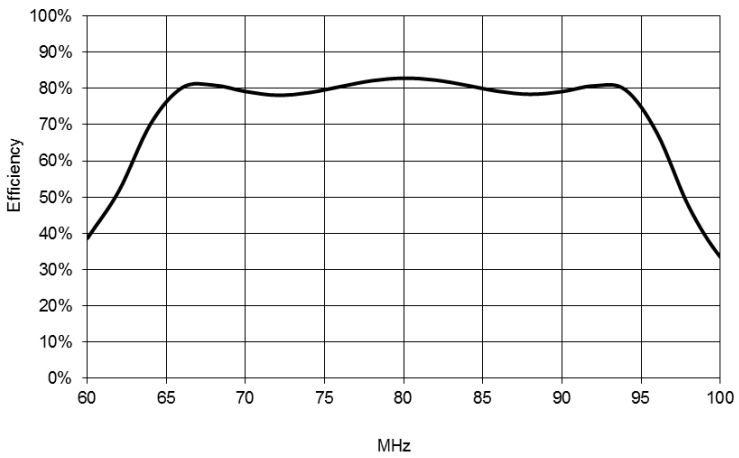
Preliminary ***1520***

Compact AO Deflector designed for High Power Fibre and DPSS, NIR lasers. The unit incorporates two section acoustic beam steering to produce a flat scan response. Applications include high speed, sequential multi-point scanning or fast sweep operation.

SPECIFICATIONS

Spectral Range:	0.36 > 1.5μm
Standard A/R Wavelengths:	1.1um
Optical Power:	150 Watts **
Interaction Medium:	Tellurium Dioxide (TeO2)
Acoustic Velocity:	4.2mm/μs
Centre Frequency (Fc):	80MHz nominal
RF Bandwidth:	30MHz
Input Impedance:	50Ω Nominal
VSWR:	<1.5:1 @ Fc
Clear Aperture:	6.5mm
Active Aperture Height:	3mm
Static Insertion Loss	<3% at 1.1um
Reflectivity:	< 0.5%/Surface
Laser Polarization:	Any
RF Power (total):	5 Watts nominal
Bragg Angle:	10.2 mrad
Typical Scan Angle:	7.7 mrad
Cooling:	Conduction to a cooled surface required

TYPICAL SCAN PERFORMANCE at 1.1um *

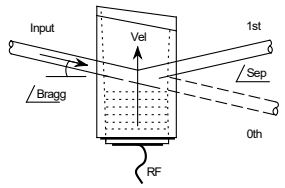


* Single mode input

** 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

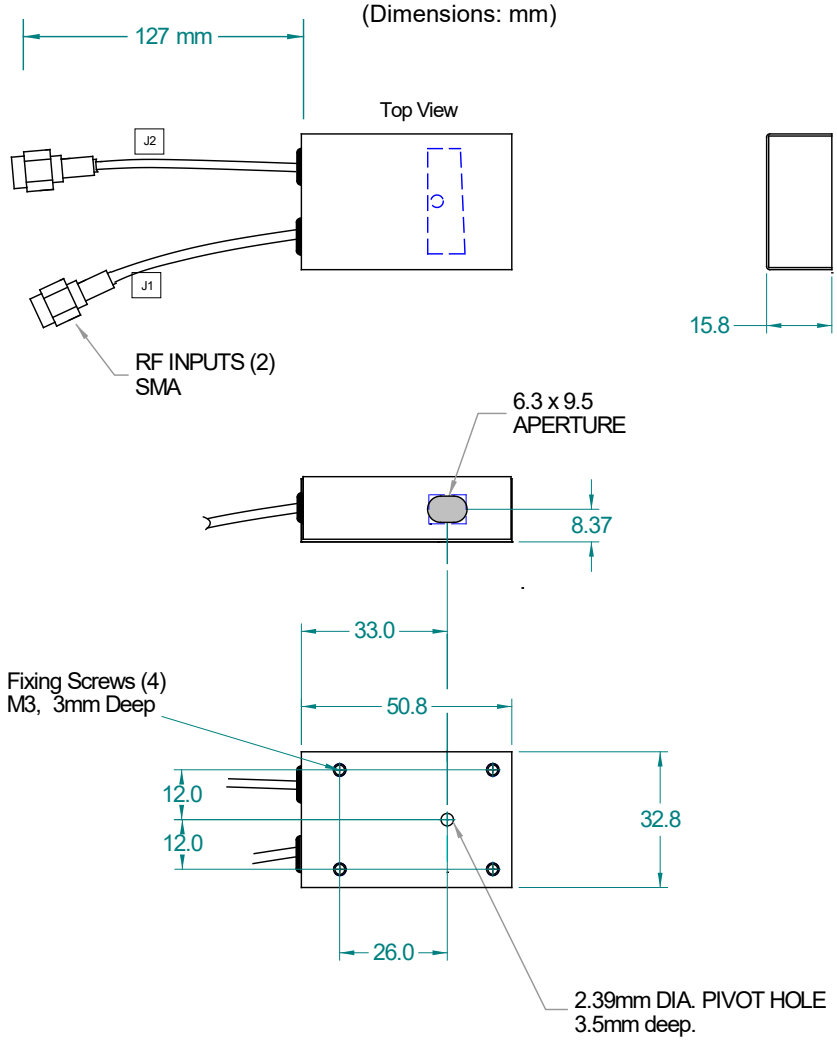


D1412-T80L-3

Acousto-Optic Modulator

Preliminary ***1520***

OUTLINE DRAWING
(Dimensions: mm)



Recommended Driver Options

VCO based: RFA3080-2-5

or

Synthesizer based: 1off iMS4-P plus 2off AF0-85T-4 amplifiers

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