

D1422-T85L-4

Acousto-Optic Deflector



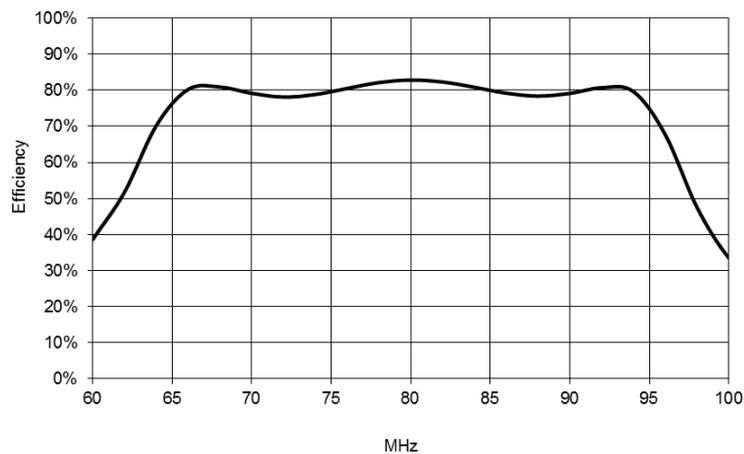
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Compact AO Deflector designed for High Power Fibre and DPSS, NIR lasers. The unit incorporates two section acoustic beam steering to produce a flat scan response. Applications include high speed, sequential multi-point scanning or fast sweep operation.

SPECIFICATIONS

Spectral Range:	0.36 > 1.5µm
Standard A/R Wavelengths:	1.1µm
Optical Power:	150 Watts **
Interaction Medium:	Tellurium Dioxide (TeO ₂)
Acoustic Velocity:	4.2mm/µs
Centre Frequency (Fc):	85MHz nominal
RF Bandwidth:	30MHz
Input Impedance:	50Ω Nominal
VSWR:	<1.5:1 @ Fc
Clear Aperture:	6.5mm
Active Aperture Height:	4mm
Static Insertion Loss	<3% at 1.1µm
Reflectivity:	< 0.5%/Surface
Laser Polarization:	Any
RF Power (total):	7 Watts nominal
Bragg Angle:	10.8 mrad
Typical Scan Angle:	7.7 mrad
Cooling:	Conduction to a cooled surface required

TYPICAL SCAN PERFORMANCE at 1.1µm *

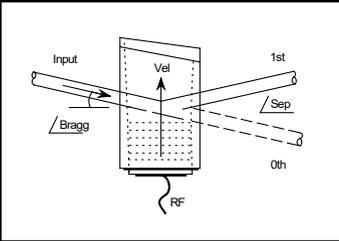


* Single mode input

** For higher powers please contact Isomet

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



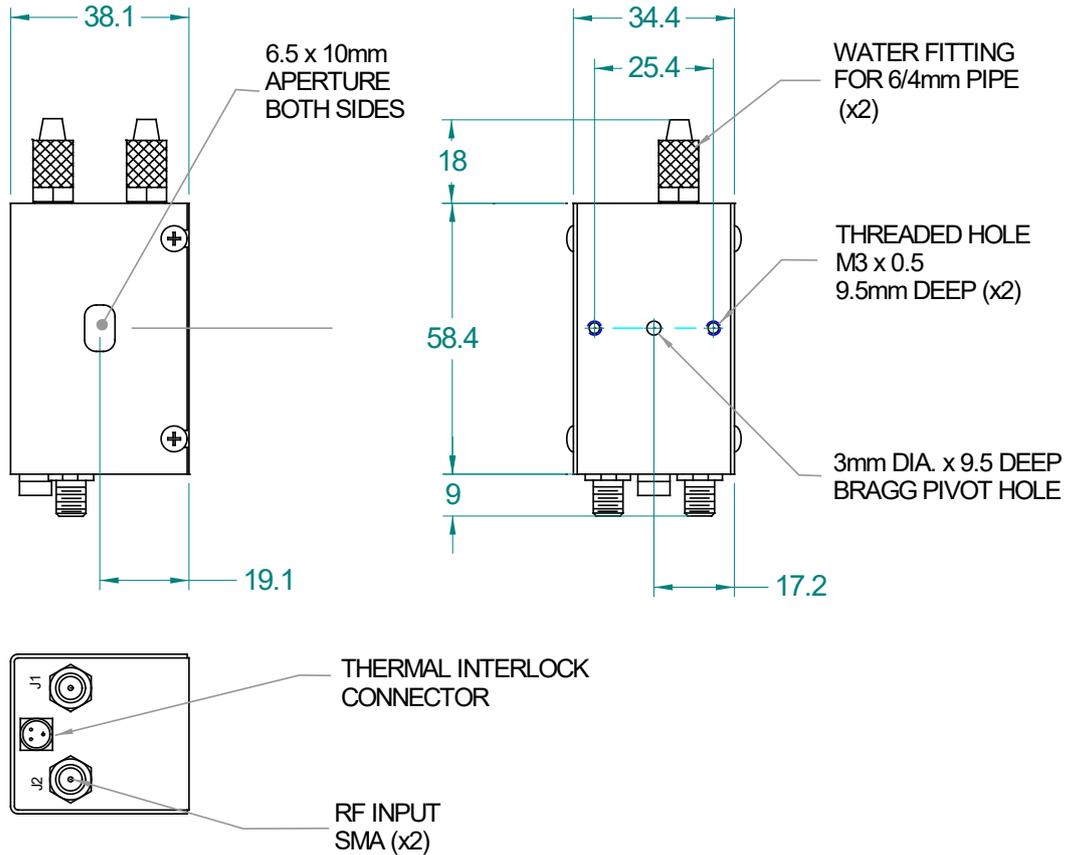
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OUTLINE DRAWING
(Dimensions: mm)



Cooling: Water cooled. All wet surfaces Tellurium copper.

Recommended Driver Options

VCO based: RFA3085-2-4

or

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

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