

D1312-T80L-6 (TC)

Acousto-Optic Deflector



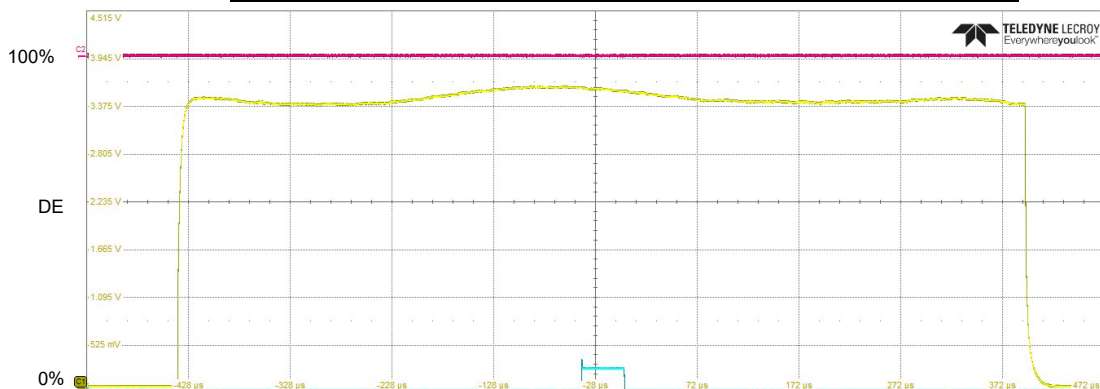
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Larger aperture AO deflector designed for High Power Fibre and DPSS, NIR lasers. The unit incorporates two section acoustic beam steering to produce a flat scan response. Applications include high speed, sequential multi-point scanning or fast sweep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

SPECIFICATIONS

Spectral Range:	0.36 > 1.5 μ m
Standard A/R Wavelengths:	1.064 -1.1 μ m
Optical Power:	500 Watts **
Interaction Medium:	Tellurium Dioxide (TeO ₂)
Acoustic Velocity:	4.2mm/ μ s
Centre Frequency (Fc):	80MHz (nominal)
RF Bandwidth:	30MHz
Input Impedance:	50 Ω Nominal
VSWR:	<1.5:1 @ Fc
Clear Aperture:	8mm
Active Aperture Height:	6mm
Static Insertion Loss	<3% at 1.1 μ m
Reflectivity:	< 0.5%/Surface
Laser Polarization:	Any
RF Power (total):	7.5 Watts nominal
Bragg Angle:	10.2 mrad
Typical Scan Angle:	7.7 mrad
Cooling:	Water cooled Corrosion inhibitor strongly recommended. Thermal interlock switch opens at 40degC.

TYPICAL 30MHz SWEEP SCAN PERFORMANCE at 1.1 μ m (per axis) *

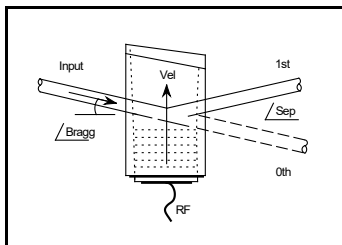


* Single mode input

** 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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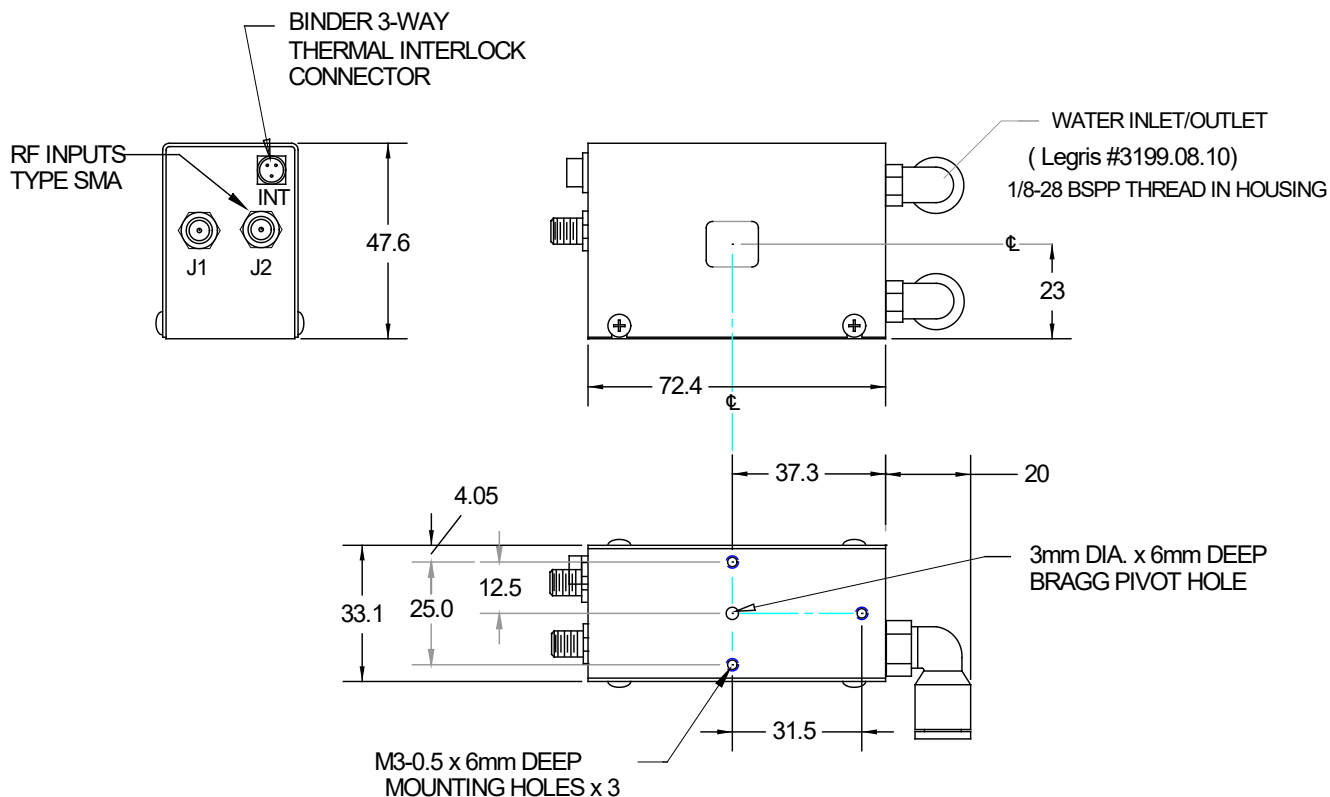
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OUTLINE DRAWING

Dimensions: mm
Case material: Aluminium (standard) or Tellurium Copper (option -TC)



Recommended Driver(s)

VCO based: RFA3080-2-BR.

or

Synthesizer based: 1off iMS4-PT plus 2off AF0-80T-4 amplifiers.

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