

# D1135-T110L-4

## Acousto-Optic Modulator



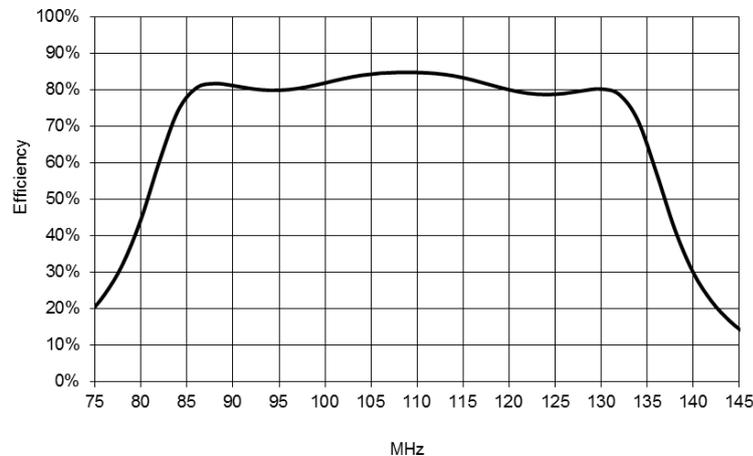
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Compact AO Deflector designed for High Power Fibre and DPSS, NIR Lasers. The unit incorporates four section acoustic beam steering to produce a flat scan response. Applications include high speed, sequential multi-point scanning or fast sweep operation.

### SPECIFICATIONS

Spectral Range:	0.36 > 1.5µm
Standard A/R Wavelengths:	1.1µm
Optical Power:	100 Watts **
Interaction Medium:	Tellurium Dioxide (TeO2)
Acoustic Velocity:	4.2mm/µs
Centre Frequency (Fc):	110MHz (nominal)
RF Bandwidth:	50MHz
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):	6 Watts nominal
Bragg Angle:	15 mrad
Typical Scan Angle:	13 mrad
Cooling:	Water cooled Corrosion inhibitor strongly recommended Thermal interlock switch opens at 40degC

### ESTIMATED SCAN PERFORMANCE at 1.1µm \*

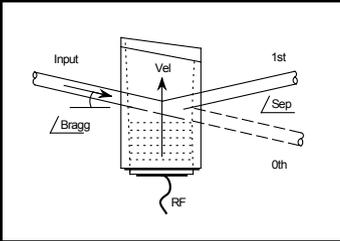


\* Single mode input

\*\* For higher powers please contact Isomet

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



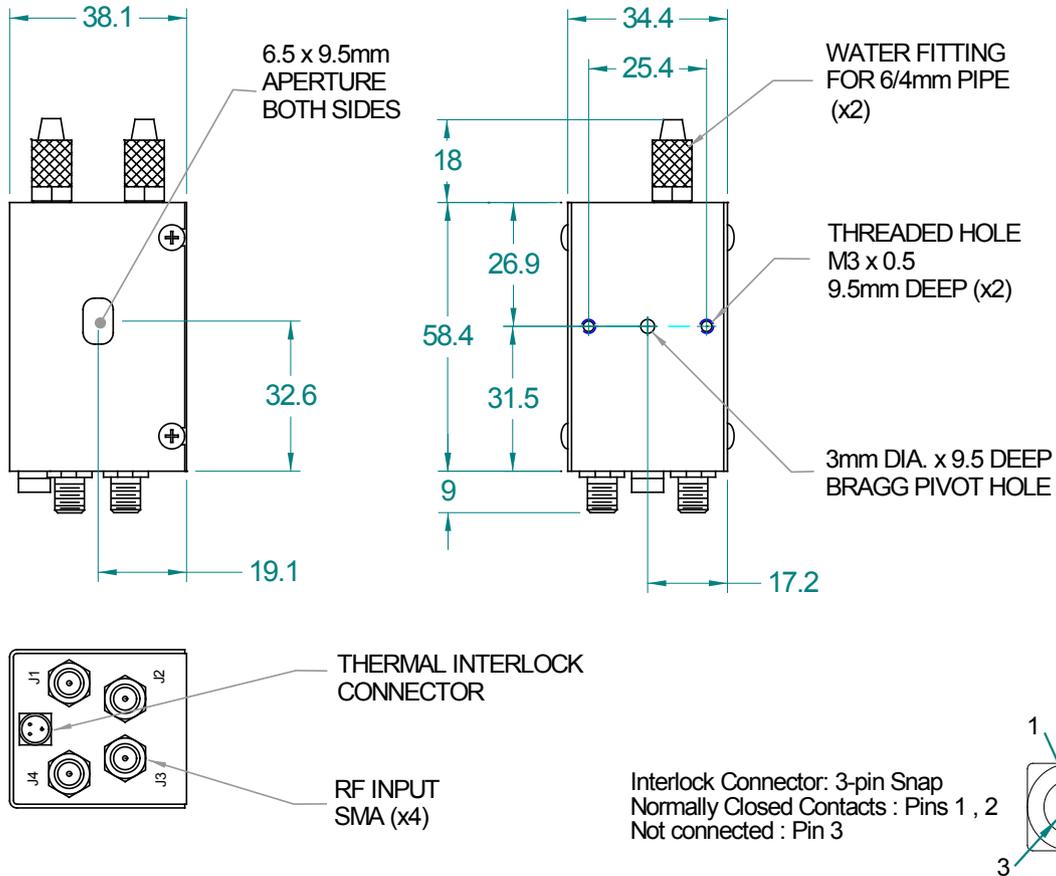
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### OUTLINE DRAWING



### Options

-TC Tellurium copper case parts

### Recommended Drivers

RFA3110-4BS, VCO and quad power amplifier

or

iMS4-P synthesizer with AN1-110T-4-6 quad amplifier

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