M1135-T80L-3
Acousto-Optic Modulator

Compact AO Modulator designed for High Power NIR Fibre and DPSS laser applications

**SPECIFICATIONS**

- **Spectral Range:** 0.36 > 1.5μm
- **Standard A/R Wavelengths:** 1.03 - 1.1μm
- **Interaction Medium:** Tellurium Dioxide (TeO2)
- **Acoustic Velocity:** 4.2mm/μs
- **Centre Frequency (Fc):** 80MHz
- **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 1.1μm
- **Reflectivity:** <0.5%/Surface
- **Laser Polarization:** Any
- **DC Contrast Ratio:** >1000:1 min (>2000:1 typical)
- **Cooling:** Water cooled. Copper case parts. Corrosion inhibitor strongly recommended. Thermal interlock switch opens at 40degC

**TYPICAL PERFORMANCE at 1.1μm**

- **Optical Power:** 200 Watts CW **
- **Beam Diameter (mm):** 2.8 1.6
- **Optical Rise Time (ns):** 430 245
- **Modulation Bandwidth (MHz) @ MTF = 0.5:** 0.8 1.4
- **Deflection Efficiency (% @ CF):** >85 >85 Polarization Perpendicular to Base
- **RF Power:** 6 Watts nominal
- **Bragg Angle:** 10.5 mrad
- **Separation Angle at fc:** 21.0 mrad

* Single mode input

** For higher powers please contact Isomet

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
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Quality Assured.
In-house: Crystal Growth,
Optical Polishing,
A/R coating, Vacuum Bonding
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**Recommended Drivers**

- Model 522C-7 (Digital Modulation, conduction cooled)
- Model 532C-7 (Analog Modulation, conduction cooled)
- Model 752C-7 (Analog & Digital Modulation, conduction cooled)

Water cooled RF driver option (-W) available