

M1099(M)-T40L-2



Acousto-Optic Modulator

0421

Compact AO Modulator designed for High Power NIR Fibre and DPSS laser applications. AOM is supplied with a removable water cooled base plate.

SPECIFICATIONS

Standard A/R Wavelengths: Optical Power: Interaction Medium: Acoustic Velocity: Centre Frequency (Fc): RF Bandwidth: Input Impedance: VSWR: Clear Aperture: Active Aperture: Active Aperture Height: Static Insertion Loss Reflectivity: Laser Polarization: Static Contrast Ratio: $\begin{array}{l} 1.9-2.1 \ \mu m \ ^* \\ 100 \ Watts \ CW \ ^* \\ Tellurium \ Dioxide \ (TeO_2) \\ 4.2mm/\mu s \\ 40MHz \\ 10MHz \\ 50\Omega \ Nominal \\ <1.5:1 \ @ \ Fc \\ 6.5mm \\ 2mm \\ <3\% \ at \ 2.0um \\ <0.5\%/Surface \\ Any \ / \ vertical \ preferred \ ^* \\ >1000:1 \ min \ (>2000:1 \ typical) \end{array}$

Estimated 90% 400 80% 340 **%** 70% 280 2 **Efficiency** 60% 50% Time 220 160 ⁸ Efficiency Rise Time 40% 100 30% 40 200 400 600 800 1000 1200 1400 1600 1800 2000 Diameter, um

	1900nm	2090nm
RF Power (theoretical):	7 W	8.5W
Typical Diffraction Efficiency, 6W drive:	>80%	>75%
Bragg Angle:	9.05 mrad	9.95 mrad
Separation Angle:	18.1 mrad	19.9 mrad

* see foot notes

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICEISOMET CORP, 10342 Battleview Parkway, Manassas, VA 20109, USA.Tel: (703) 321 8301Fax: (703) 321 8546E-mail: ISOMET@ ISOMET.COMWeb Page: WWW.ISOMET.COM

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

TYPICAL PERFORMANCE at 1.9um *

