

M1199-G40-7,8,9

High Power AO Modulator



APPLICATIONS

- Material Processing
- Via Hole Drilling
- Surface texturing

FEATURES

- Low loss
- High Optical Power
- All Solid-State

The M1199-G40 series is an alternative to the M700 series. Both models are designed to minimize thermal lensing and reduce beam degradation at high optical powers. The M1199 differs in that the coolant is not in direct contact with the Germanium block and is ideally suited to pulsed laser / duty cycled systems up to 25%.

SPECIFICATIONS (TYPICAL)

Operating Wavelength: 9.4um or 10.6um (specify)* Germanium Interaction Material: Active Aperture: -7 7mmH x 30mmW -8 8mmH x 30mmW 9mmH x 30mmW -9 Centre Frequency (fc): 40MHz RF Bandwidth: 10MHz Diffraction Efficiency at fc: > 85%, 90% typical RF Power for Max. D/E < 180 Watts total (-9) Static Insertion Loss: < 5% Maximum Optical Power: 600 Watts, 7mm dia. Gaussian beam 9.3um 10.6um Bragg Angle: 33.9 mrad 38.6 mrad Separation Angle: 67.7 mrad 77.1 mrad Laser Polarization: Linear, Horizontal Water Cooling (Minimum): > 2 Liter/Min. @ < 20°C Modulator performance : Optical Rise Time 0.12usec / mm beam diameter Diffraction Efficiency > 85% Modulator Drive Electronics: RFA641 (40MHz)

Options:

-BR: Brass case parts

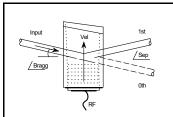
-P: Air purge connections

: other wavelengths in the $2.5\mu m - 11.2\mu m$ range.

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

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