

M1199-G50-7, -8, -9

High Power AO Modulator



APPLICATIONS

- Material Processing
- Via Hole Drilling
- Surface texturing
- Hole Perforation

FEATURES

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

The M1199-G50 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.

SPECIFICATIONS (TYPICAL)

Operating Wavelength: Interaction Material: Active Aperture: -7

> -8 -9

Centre Frequency (fc): RF Bandwidth:

Diffraction Efficiency at fc: RF Power for Max.D/E Static Insertion Loss: Maximum Optical Power:

Bragg Angle: Separation Angle:

Laser Polarization: Water Cooling (Minimum):

<u>Modulator performance</u> : Optical Rise Time Diffraction Efficiency Modulator Drive Electronics: 9.4um or 10.6um (specify)* Germanium

7mmH x 30mmW 8mmH x 30mmW 9mmH x 30mmW

50MHz 10MHz

> 85%, 90% typical < 180 Watts total (-9) < 5% 600 Watts, 7mm dia. Gaussian beam

 9.3um
 10.6um

 42.3 mrad
 48.2 mrad

 84.5 mrad
 96.4 mrad

Linear, Horizontal > 2 Liter/Min. @ < 20°C

0.12usec / mm beam diameter > 85% RFA651 (50MHz)

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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