

M1315(A)-G40-H High Power AO Modulator



APPLICATIONS

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

FEATURES

- Low loss
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- High Optical Power

9.4um or 10.6um (specify)*

9mm.H x 15mm.W (9.4um only)

Germanium

40MHz

10MHz

25%.

< 5%

6mm.H x 15mm.W

7mm.H x 15mm.W

8mm.H x 15mm.W

100% with caution

> 85%, 90% typical

Linear. Horizontal

38.5 mrad, nominal

77.1 mrad (40MHz)

> 85%, 90% typical

34.2 mrad. nominal

68.4 mrad (40MHz)

> 85%, 90% typical

RFA641-BR

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0.12usec / mm beam diameter

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> 2 Liter/Min. @ < 20°C

< 180 Watts peak total (-8)

600 Watts, 7mm dia. Gaussian beam

All Solid-State

The M1315-G40 series are low loss single beam modulators optimized for duty cycled applications and designed to minimize thermal lensing and reduce beam degradation at high optical powers.

SPECIFICATIONS (TYPICAL)

Operating Wavelength: Interaction Material: Active Aperture:

H=6 H=7 H=8 H=9

Centre Frequency (fc): RF Bandwidth: Design duty cycle Maximum duty cycle Diffraction Efficiency at fc: RF Power for Max. D/E Static Insertion Loss: Maximum Optical Power:

Laser Polarization: Water Cooling (Minimum):

Single Beam Performance at 10.6um

Bragg Angle at 10.6um: Separation Angle at 10.6um: Optical Rise Time Diffraction Efficiency RF driver

Single Beam Performance at 9.4um Bragg Angle at 9.4um: Separation Angle at 9.4um: Optical Rise Time Diffraction Efficiency

RF driver

Options:

M1315 : Copper case parts (standard)
M1315A : Aluminium case parts
* : other wavelengths in the 2.5μm - 12μm range.

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE ISOMET CORP, 5263 Port Royal Rd, Springfield, VA 22151, USA. Tel: (703) 321 8301 Fax: (703) 321 8546 E-mail: ISOMET@ISOMET.COM Web Page: WWW.ISOMET.COM

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

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