

M1346-aQ50-3 (2um)

Acousto-Optic Modulator

(PRELIMINARY DATA)



SPECIFICATIONS Spectral Range: NIR A/ R wavelength: 1.9-2.1um (others on request) Interaction Medium: Quartz Acoustic Velocity: 5.7mm/μs Centre Frequency (fc): 50MHz RF Bandwidth (Δf): 20MHz Input Impedance: 50Ω Input VSWR: < 1.5:1 at 50MHz Clear Aperture: 9 mmH x 14 mmL Active Aperture: 3 mmH x 14 mmL **Optical Insertion Loss:** < 3% Reflectivity: < 0.5%/Surface Laser Polarization: Vertically Polarized Water Cooling (minimum): 1litre/minute at < 20°C Outline Dimensions: (See reverse) **TYPICAL PERFORMANCE at 2um Optical Power (CW):** 100 Watts Theoretical saturation RF power: 130 Watts Maximum RF Power: 40 Watts average Input beam diameter : 1.0mm 2.0mm Optical access time: 0.14us 0.28us

> Diffraction Efficiency-40W max CW RF: > 50% * > 50% * 120W peak RF, 33% duty cycle: > 85% peak* > 85% peak *

Bragg Angle: Separation Angle at fc: 8.7 mrad 17.5 mrad

* Single mode input

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

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