1203-3
Acousto-Optic Modulator

Robust AO Modulator designed for High Power NIR Fibre and DPSS laser applications.

SPECIFICATIONS

Spectral Range: NIR
Operating Wavelength: 1.064-1.1μm (others on request)
Interaction Medium: Fused Silica
Acoustic Velocity: 5.96mm/μs

Centre Frequency (fc): 60MHz
RF Bandwidth (Δf): 20MHz
Input Impedance: 50Ω
Input VSWR: < 1.5:1 at 60MHz

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 1.064μm

Optical Power (Maximum): 200 Watts
Input beam diameter : 1.6mm 3mm
Optical access time : 0.17us 0.33us
Diffraction Efficiency: > 85% * > 85% *
Optical Power: 200 Watts 200 Watts

RF Power: 33 Watts nominal
Bragg Angle: 5.4 mrad
Separation Angle at fc : 10.7 mrad

* Single mode input
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OUTLINE DRAWING

THIS DEVICE REQUIRES WATER COOLING TO PREVENT THERMAL RUNAWAY. THE INTEGRAL NC THERMAL INTERLOCK SWITCH OPENS AT 32 degC.

THE WATER COOLED CASE PARTS ARE ALUMINIUM. IT IS RECOMMENDED THAT A CORROSION INHIBITOR SUCH AS 'COPAL' BY FERNOX IS ADDED TO THE COOLING SYSTEM.

Recommended Driver
Modulator Driver/Amplifier RFA261

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
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Quality Assured.
In-house: Crystal Growth, Optical Polishing, A/R coating, Vacuum Bonding.