

D1365-aQ180-4 (532nm)



Acousto-Optic Deflector

3221

Compact AO Deflector designed for use with 515/532nm lasers. This device employs acoustic beam steering to improve the uniformity of the scan response. Applications include high speed, sequential multi-point scanning or fast sweep operation.

SPECIFICATIONS

A/R Wavelengths: 515, 532nm
Optical Power: 20 Watts **
Interaction Medium: Quartz
Acoustic Velocity: 5.7mm/µs

Centre Frequency (Fc): 180MHz (+/- 5% for best scan response)

RF Bandwidth: 60MHz, minimum Input Impedance: 50 Ω Nominal VSWR: <1.5:1 @ Fc

Clear Aperture: 6.5mm

Active Aperture Height: 4mm (H) x 6mm (W)
Static Insertion Loss <3% at 0.532um
Reflectivity: <0.5%/Surface
Laser Polarization: Linear Vertical.
RF Power (total): 20 Watts nominal

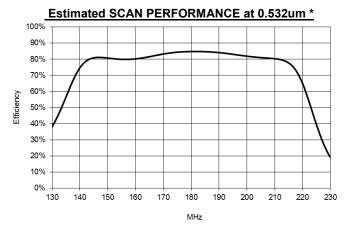
Input Bragg Angle:
Separation angle at Fc:
16.8 mrad
Typical Scan Angle:
6.5 mrad

<u>Deflector Performance</u>: Using 3.5 x 3.5mm beam Efficiency: ~80% across 65MHz scan

Access Time: 0.6µsec

Resolution: 40 resolvable spots

>1000 non-resolvable points



^{*} Single mode input

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

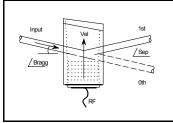
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Quality Assured. In-house: Crystal Growth, Optical Polishing, A/R coating, Vacuum Bonding

^{**} For higher powers please contact Isomet



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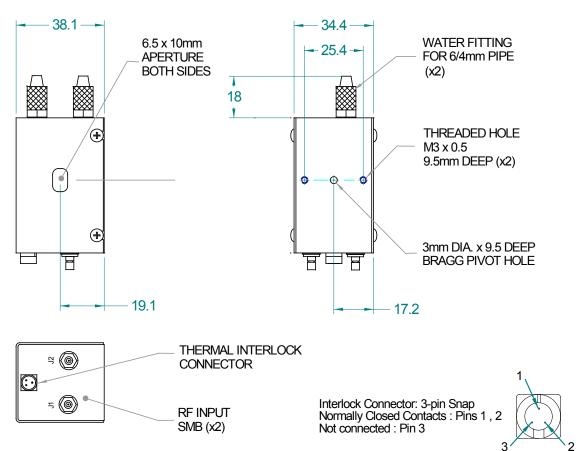


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OUTLINE DRAWING

Dimensions: mm



Cooling:

All wet surfaces Tellurium copper.
Corrosion inhibitor recommended.
Thermal interlock switch opens at 40degC
Refer application note AN1906 regarding Coolant Specification

Recommended Driver

iMS4-P Synthesizer plus RFA0180-2-10 Amplifier

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