

M1406-aQ175L-0.5

Acousto-Optic Modulator

Low GVD AOM for use with fsec laser



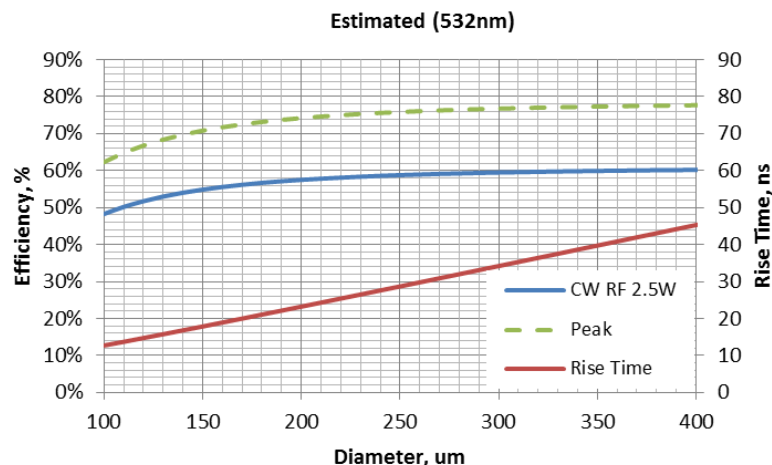
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SPECIFICATIONS

A/R Operating Wavelength*:	470-490nm, 510-540nm
Material:	Quartz
Optical path length:	10mm
Acoustic velocity:	5.7mm/usec
Center Frequency:	175 MHz
RF Bandwidth:	40 MHz
Diffraction Efficiency:	> 85%
Input Impedance:	50Ω
Input VSWR:	< 1.5:1 @ 175MHz
Active Aperture:	0.5mm
Optimum Beam dia.	0.25mm
Optical Insertion Loss:	< 3%
Reflectivity:	< 0.5%/Surface
DC Contrast Ratio:	>1000:1 min (2000:1 typical)
Laser Polarization:	Vertical, Perpendicular to Base

PERFORMANCE vs. WAVELENGTH

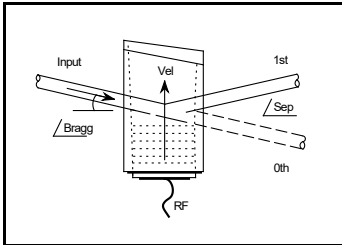
Wavelength (nm):	488	515	532
Peak RF Drive Power (W):	5.0	5.5	6
Max CW or Average RF power (W):	2.5	2.5	2.5
Bragg Angle (mrad):	7.5	7.9	8.2
Separation Angle (mrad):	15.0	15.8	16.3



(* other wavelengths on request)

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



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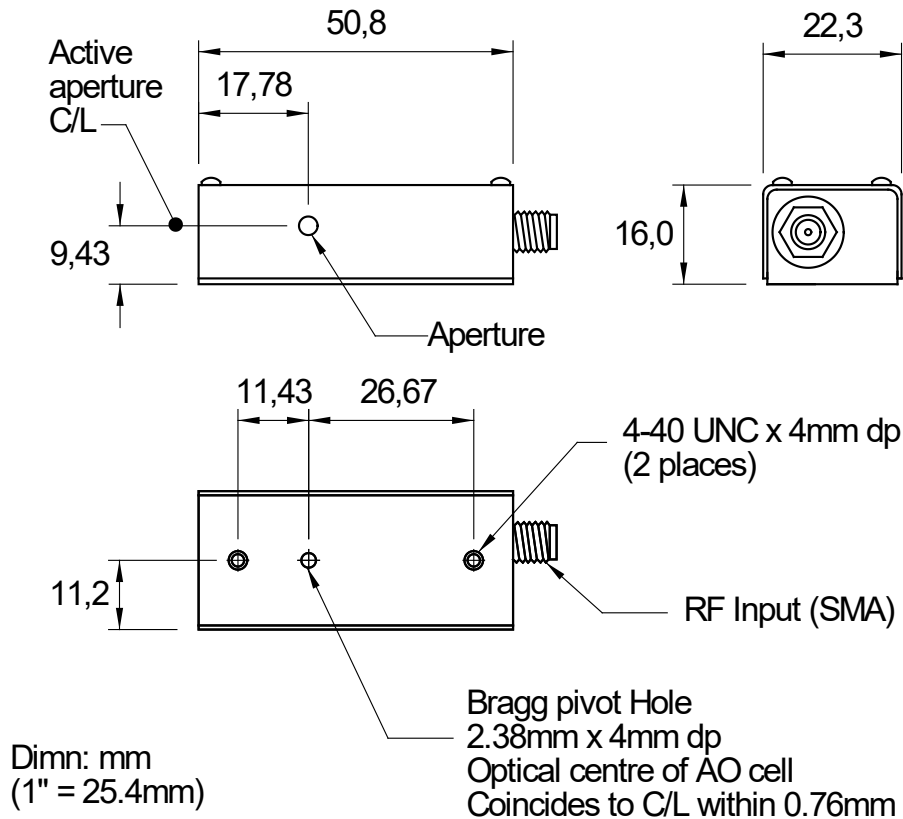
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OUTLINE DRAWING



Suggested RF Drive Electronics:

Dual modulation
Tuneable with modulation

554F-4-175
iMS4-L with AF0-150T-4

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