

M1451(M)-aQ200L-0.5

UV Acousto-Optic Modulator

(Preliminary)



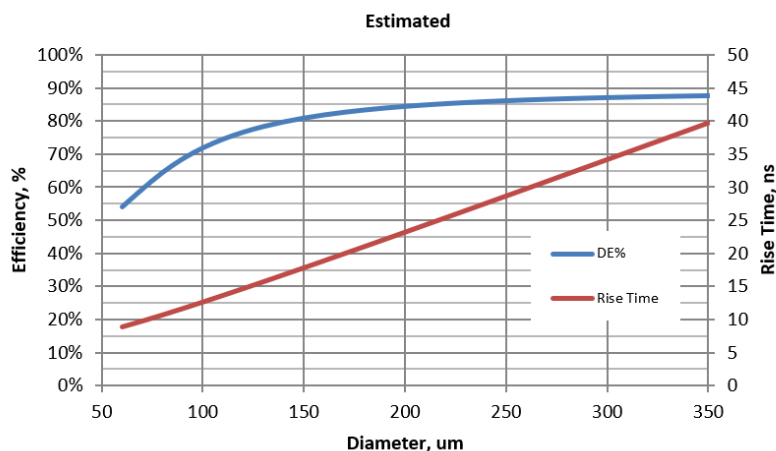
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SPECIFICATIONS

A/R Operating Wavelength*:	248nm, 260-420nm
Material:	Quartz
Optical path length:	18mm
Acoustic velocity:	5.7mm/usec
Center Frequency:	200 MHz
RF Bandwidth	40 MHz
Diffraction Efficiency (<u>peak</u>):	> 85%
Input Impedance:	50Ω
Input VSWR:	< 1.5:1 @ 200MHz
Clear Aperture:	> 1.5mm
Active Aperture:	0.5mm high
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):	248	305	355
RF Drive Power (W):	1.1	1.6	2.1
Bragg Angle (mrad):	4.35	5.35	6.23
Separation Angle (mrad):	8.7	10.7	12.46



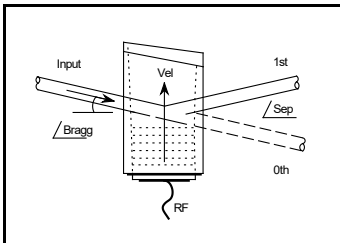
(* other wavelengths on request)

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

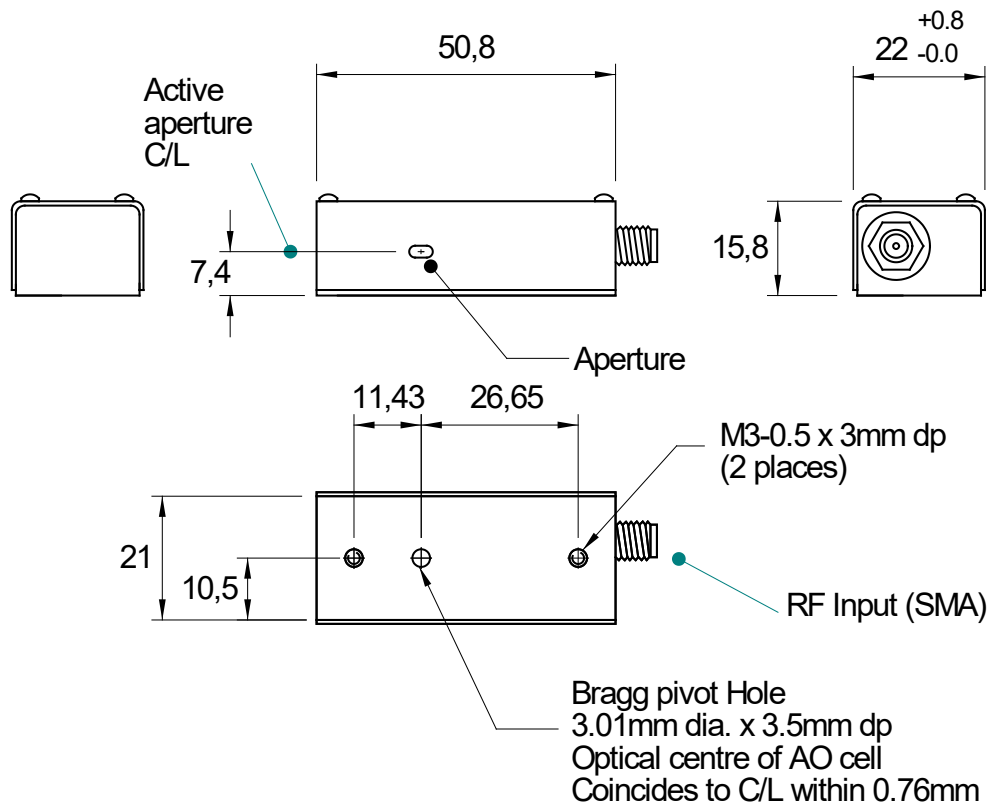


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OUTLINE DRAWING



Suffix (M): M3 metric fixing threads.

Mount device to heat conducting surface

Suggested RF Drive Electronics:

Digital/Analog/Dual modulation
Tuneable with modulation

525F-4 / 535F-4/ 555F-4
iMS4-P with AF0-200T-4

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