

M1451(M)-aQ200L-0.9 UV Acousto-Optic Modulator



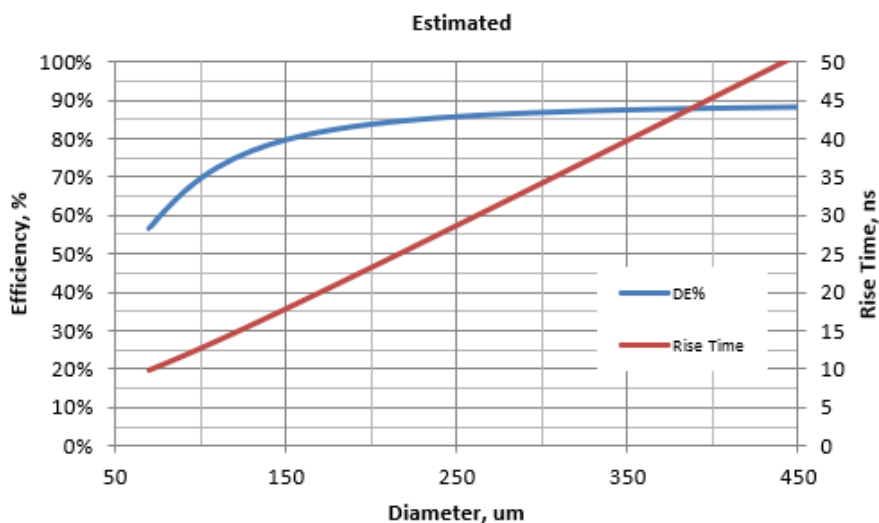
2026

SPECIFICATIONS

A/R Operating Wavelength*:	248nm, 260-420nm
Material:	Quartz
Optical path length:	18mm
Acoustic velocity:	5.7mm/usec
Center Frequency:	200MHz
RF Bandwidth	100MHz
Diffraction Efficiency (<u>peak</u>):	> 85%
Input Impedance:	50Ω
Input VSWR:	< 1.5:1 @ 200MHz
Clear Aperture:	> 1.5mm
Active Aperture:	0.9mm 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

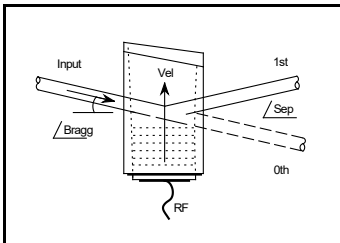
Wavelength (nm):	248	305	355
RF Drive Power (W):	1.7	2.6	3.5
Bragg Angle (mrad):	4.35	5.35	6.23
Separation Angle (mrad):	8.7	10.7	12.46



(* other wavelengths on request)

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

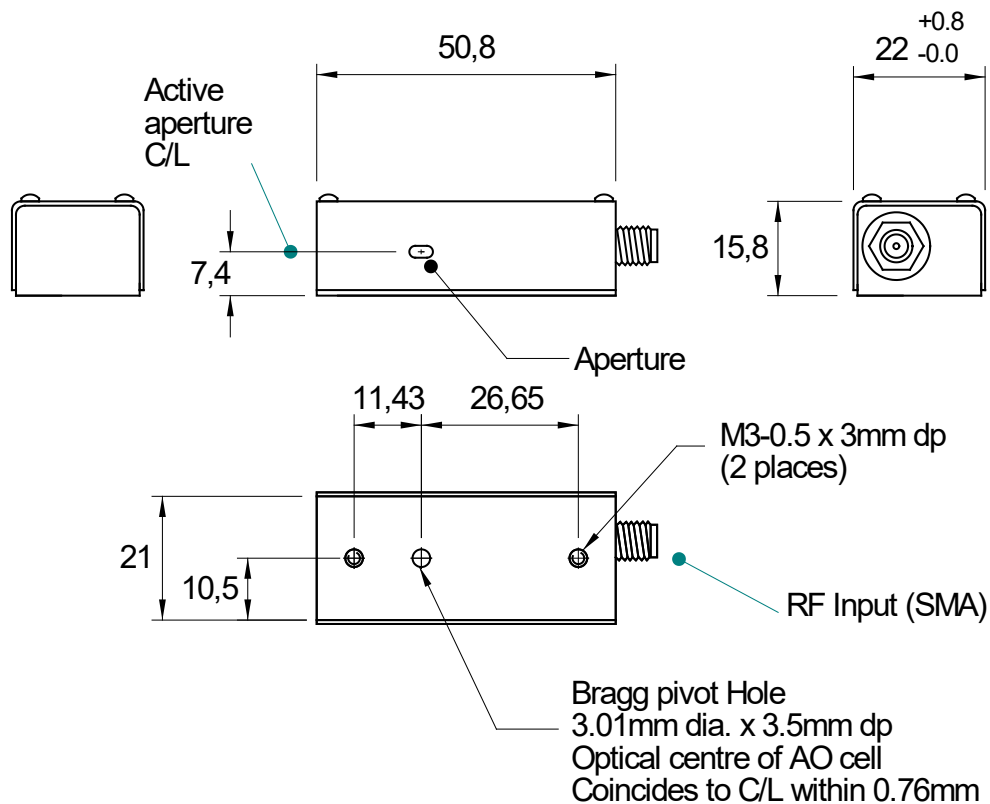


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OUTLINE DRAWING



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
iCSA-200-1-4

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