

SPECIFICATIONS

AO Medium	Crystalline Quartz		
Acoustic Velocity	5.74 mm/μs		
Active Aperture*	1.5 mm 'L' X	1.5 mm 'H'	
Center Frequency (Fc)	175 MHz		
RF Bandwidth	15 MHz @	-10 dB	Return Loss
Input Impedance	50 Ohms Nominal		
VSWR @ Fc	1.2:1 Max		
Wavelength	340-365 nm		
Insertion Loss	<1 % Max		
Reflectivity per Surface	0.3 % Max		
Anti-Reflection Coating	MIL-C-48497		
Optical Power Density			
Contrast Ratio	1000:1 Min		
Polarization	90° To Mounting Plane		

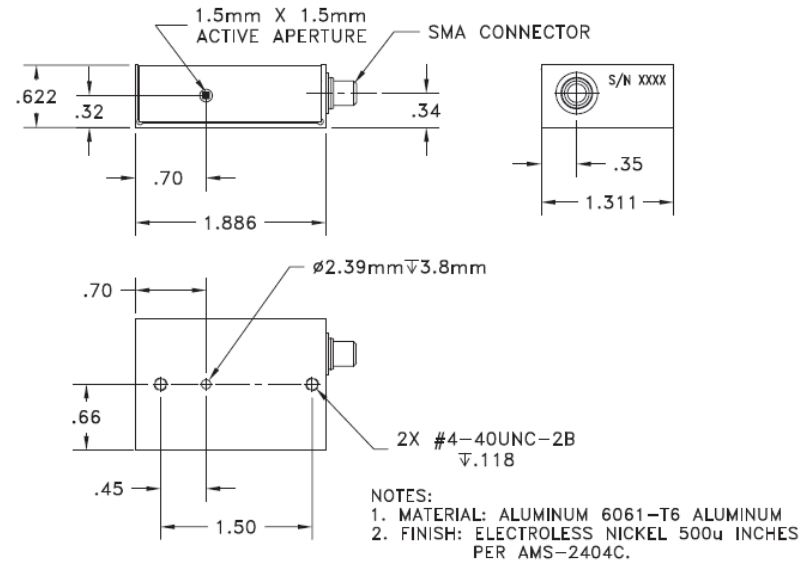
PERFORMANCE VS WAVELENGTH

Wavelength (nm)	355
Operational RF Power (W)	<2.5W
Bragg Angle (mr)	5.4
Beam Separation (mr)	10.8

PERFORMANCE VS BEAM DIAMETER

Beam Diameter (μm)	500	1000
at Wavelength (nm)	355	355
Diffraction Efficiency (%)	>85%	>90%
Rise Time (nsec)	59	117

Outline Drawing:



Document

05/08/20

Control

Notes:

- 1) SMA connector Gold plated Brass, <4% Pb.
- 2) Machined materials to be solvent cleaned: Acetone & IPA 15 minutes each.
- 3) Vacuum sealed final bagging.
- 4) BOM revision controlled, notify customer 90 days in advance of change.

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TOLERANCES: .XX ± .01 .XXX ± .005	DR	A. Campi 4/27/2020	 AOMO 3175-1999 Quartz, .340-.365um RoHS	
MATERIAL:	CHK			
FINISH:	APP			
	APP			
			PART NUMBER:	REV:
			97-03386-02	B
			SHEET 1 OF 1	

*Active Aperture: Aperture over which performance specifications apply.