

SPECIFICATIONS

AO Medium	Crystalline Quartz		
Acoustic Velocity	5.74 mm/μs		
Active Aperture*	6 mm 'L' X	6 mm 'H'	
Center Frequency (Fc)	110 MHz		
RF Bandwidth	20 MHz @	-10 dB	Return Loss
Input Impedance	50 Ohms Nominal		
VSWR @ Fc	1.2:1 Max		
Wavelength	355 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		

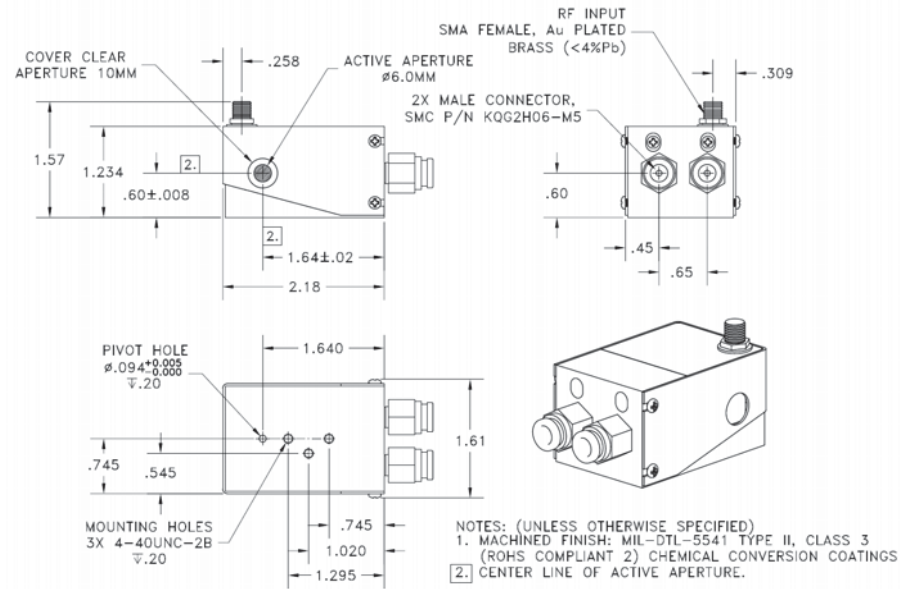
PERFORMANCE VS WAVELENGTH

Wavelength (nm)		355	355
Operational RF Power (W)	nominal	6W	10W
Bragg Angle (mr)		3.4	3.4
Beam Separation (mr)		6.8	6.8

PERFORMANCE VS BEAM DIAMETER

Beam Diameter (μm)		3500	3500
at Wavelength (nm)		355	355
Diffraction Efficiency (%)		85	94
Rise Time (nsec)		407	407

Outline Drawing:



Document

07/17/19

Control

Notes:

1. Delivered RF power must be optimized to achieve >94% efficiency.
 2. Mechanical outline per 97-03381-01-15.
 3. Optical window wedge <1'.
 4. Water cooled, .25GPM, <28C.
- *-7db roll off of efficiency at vertical aperture edges.

THIS DOCUMENT IS THE PROPERTY OF GOOCH AND HOUSEGO. IT IS NOT TO BE REPRODUCED OR DISCLOSED IN WHOLE OR IN PART OTHER THAN BY EMPLOYEES OF GOOCH AND HOUSEGO AND ITS CONTRACTED REPRESENTATIVES AND DISTRIBUTORS. ANY EXCEPTION REQUIRES THE WRITTEN CONSENT OF AN AUTHORIZED REPRESENTATIVE OF GOOCH AND HOUSEGO.

TOLERANCES: .XX ± .01 .XXX ± .005	DR	Geri Scholz 7/10/2019	AOMO 3110 Quartz, .355um		
MATERIAL:	CHK				
FINISH:	APP				
	APP		PART NUMBER: 97-03381-01	REV: 2	SHEET 1 OF 1

*Active Aperture: Aperture over which performance specifications apply.