

SPECIFICATIONS

AO Medium	Crystalline Quartz	
Acoustic Velocity	5.74 mm/μs	
Active Aperture*	6.6 mm 'L' X	6.6 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	343-355 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
Operational RF Power (W)	<12W
Bragg Angle (mr)	3.4
Beam Separation (mr)	6.8

PERFORMANCE VS BEAM DIAMETER

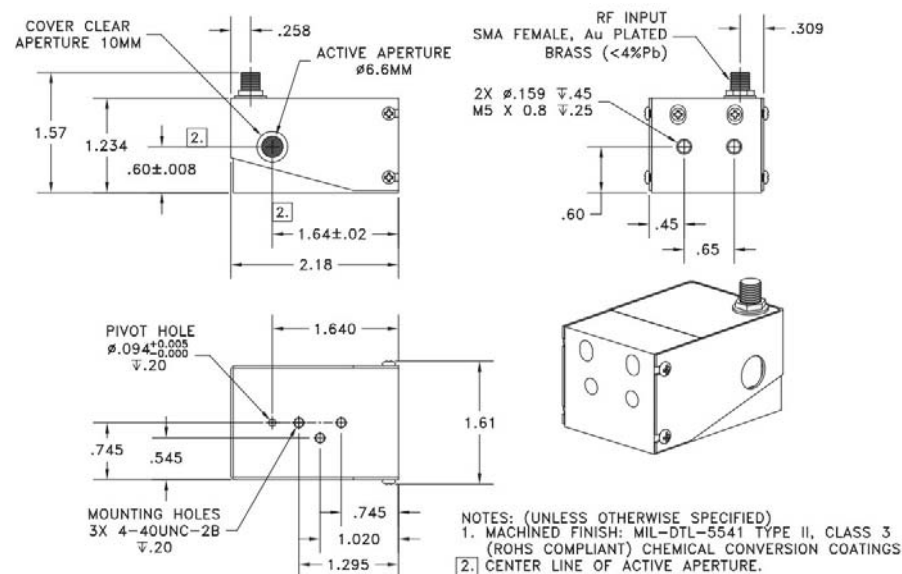
Beam Diameter (μm)	4500
at Wavelength (nm)	355
Diffraction Efficiency (%)	95
Rise Time (nsec)	523

Document

02/18/2025

Control

Outline Drawing:



Notes:

1. mechanical outline per 97-03298-01-15
2. optical window wedge <1'.

*-.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	A. Campi 2/5/2025	Gooch & Housego		
MATERIAL:	CHK		DESCRIPTION: AOMO 3110-1999		
FINISH:	APP		Quartz, 355um		
	APP		PART NUMBER: 97-03298-01	REV: 3	SHEET 1 OF 1

*Active Aperture: Aperture over which performance specifications apply.