

SPECIFICATIONS

AO Medium	Crystalline Quartz	
Acoustic Velocity	5.74 mm/μs	
Active Aperture*	4 mm 'L' X	4 mm 'H'
Center Frequency (Fc)	110 MHz	
RF Bandwidth	15 MHz @	-10 dB Return Loss
Input Impedance	50 Ohms Nominal	
VSWR @ Fc	1.2 :1 Max	
Wavelength	532 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	

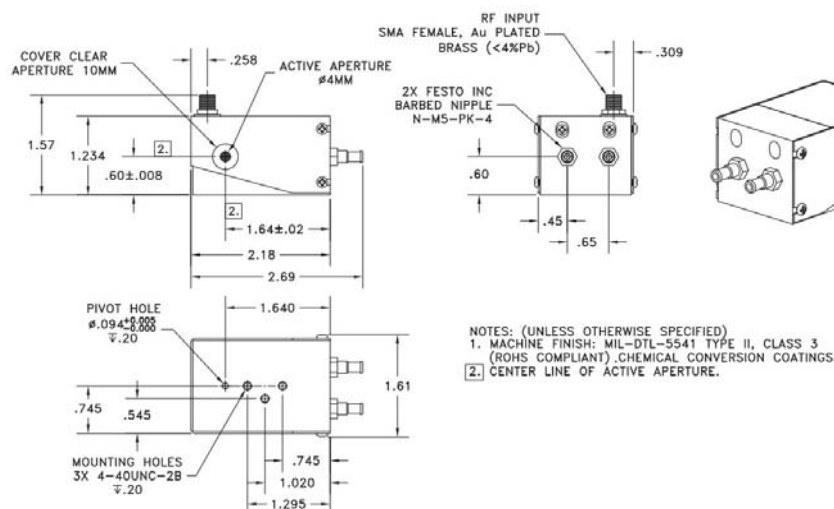
PERFORMANCE VS WAVELENGTH

Wavelength (nm)	532
Operational RF Power (W)	<15W
Bragg Angle (mr)	5.1
Beam Separation (mr)	10.2

PERFORMANCE VS BEAM DIAMETER

Beam Diameter (μm)	2500
at Wavelength (nm)	532
Diffraction Efficiency (%)	>85%
Rise Time (nsec)	291

Outline Drawing:



Document

02/25/2025

Control

Notes:

1. Water channels Metalast plated Aluminum
2. Mechanical outline per 97-03290-01-15
3. Optical window wedge <1'.

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TOLERANCES: .XX ± .01 .XXX ± .005	DR	A. Campi 2/20/2025	DESCRIPTION: AOMO 3110-1997 Quartz, 532nm		
MATERIAL:	CHK				
FINISH:	APP				
	APP		PART NUMBER: 97-03290-01	REV: 5	SHEET 1 OF 1

*Active Aperture: Aperture over which performance specifications apply.