

SPECIFICATIONS

AO Medium	Crystalline Quartz	
Acoustic Velocity	5.74 mm/μs	
Active Aperture*	6 mm 'L' X	6 mm 'H'
Center Frequency (Fc)	170 MHz	
RF Bandwidth	20 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	

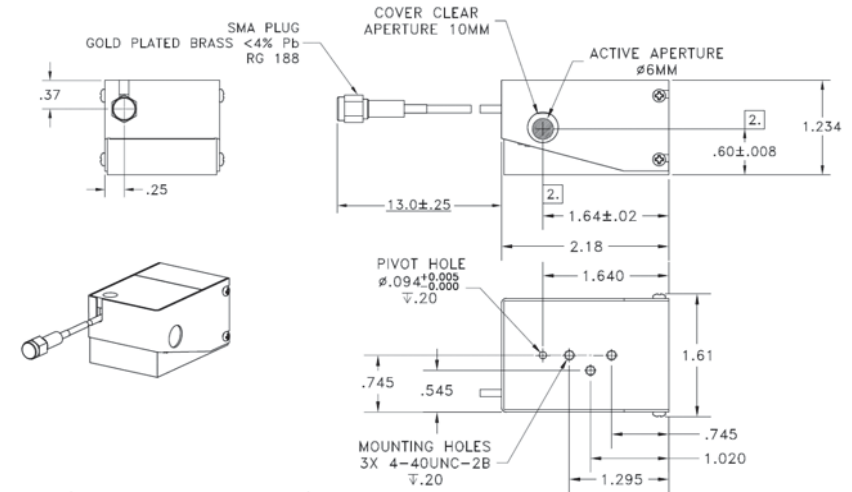
PERFORMANCE VS WAVELENGTH

Wavelength (nm)	532
Operational RF Power (W)	25W
Bragg Angle (mr)	7.9
Beam Separation (mr)	15.8

PERFORMANCE VS BEAM DIAMETER

Beam Diameter (μm)	3500
at Wavelength (nm)	532
Diffraction Efficiency (%)	85
Rise Time (nsec)	407

Outline Drawing:



- NOTES: (UNLESS OTHERWISE SPECIFIED)
 1. MACHINE FINISH: MIL-DTL-5541 TYPE II, CLASS 3
 (ROHS COMPLIANT) CHEMICAL CONVERSION COATINGS
 2. CENTER LINE OF ACTIVE APERTURE.

Document

03/23/21

Control

Notes:

1. Mechanical Outline per 97-03455-01-15r1
2. Optical window wedge <1'.
3. Water cooled, 1GPM, <28C

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TOLERANCES: .XX ± .01 .XXX ± .005	DR	A. Campi 3/19/2021			
MATERIAL:	CHK				
	APP		AOMO 3170 Quartz, 532um		
	APP				
			PART NUMBER:	97-03455-01	REV: 1
			SHEET 1 OF 1		

*Active Aperture: Aperture over which performance specifications apply.