

SPECIFICATIONS

AO Medium	TeO ₂	
Acoustic Velocity	4.2 mm/μs	
Active Aperture*	1.3 mm 'L' X	1.3 mm 'H'
Center Frequency (Fc)	95 MHz	
RF Bandwidth	60 MHz @	-13 dB Return Loss
Input Impedance	50 Ohms Nominal	
VSWR @ Fc	1.65 :1 Max	
Wavelength	680-1300 nm	
Insertion Loss	5 % Max	
Reflectivity per Surface	2 % Max	
Anti-Reflection Coating	MIL-C-48497	
Optical Power Density	<250 W/mm ²	
Contrast Ratio	1000 :1 Min	
Polarization	Perpendicular ° To Mounting Plane	

PERFORMANCE VS WAVELENGTH

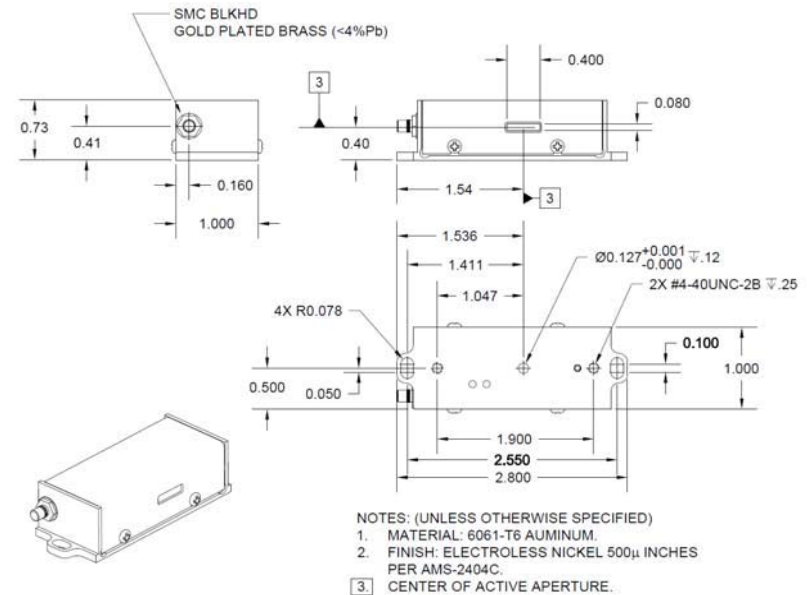
Wavelength (nm)	680	1064	1300
Operational RF Power (W)	0.86	2.2	2.2
Bragg Angle (mr)	10.13	10.13	10.13
Beam Separation (°)	20.26	20.26	20.26

PERFORMANCE VS BEAM DIAMETER

Beam Diameter (μm)	800	800	800
at Wavelength (nm)	680	1064	1300
Diffraction Efficiency (%)	90	90	80
Rise Time (nsec)	128	128	128
Frequency(MHz)	125	80	65
Chromatic Spread angle(urad/nm)	30	20	15

*Active Aperture: Aperture over which performance specifications apply.

Outline Drawing:



Document

03/16/21

Control

Notes:

Frequency Tuning to control output diffraction angle.
Beam pointing error<100urad for 10db change in RF Power (i.e. 02-2W)
Ambient Operating temperature 20-30C.
Maximum RF 3W.
Crystal optical path 21.8mm
Shipped in double Nylon Class 5 bags, vacuum sealed.

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TOLERANCES: .XX ± .01 .XXX ± .005	DR	T. NG 2/24/2021	 DESCRIPTION: AOMO 3095 .68-1.3um		
MATERIAL: 	CHK				
FINISH:	APP		PART NUMBER:	REV:	SHEET 1 OF 1
	APP		97-03442-01	2	