

SPECIFICATIONS

AO Medium	TeO ₂	
Acoustic Velocity	4.2 mm/μs	
Active Aperture*	2 mm 'L' X	2.5 mm 'H'
Center Frequency (Fc)	80 MHz	
RF Bandwidth	20 MHz @	-10 dB Return Loss
Input Impedance	50 Ohms Nominal	
VSWR @ Fc	1.3:1 Max	
Wavelength	2000 nm	
Insertion Loss	1 % Max	
Reflectivity per Surface	<.5 % Max	
Anti-Reflection Coating	MIL-C-48497	
Optical Power Density	100 MW/cm ²	
Contrast Ratio	1000:1 Min	
Polarization	Perpendicular ° To Mounting Plane	

PERFORMANCE VS WAVELENGTH

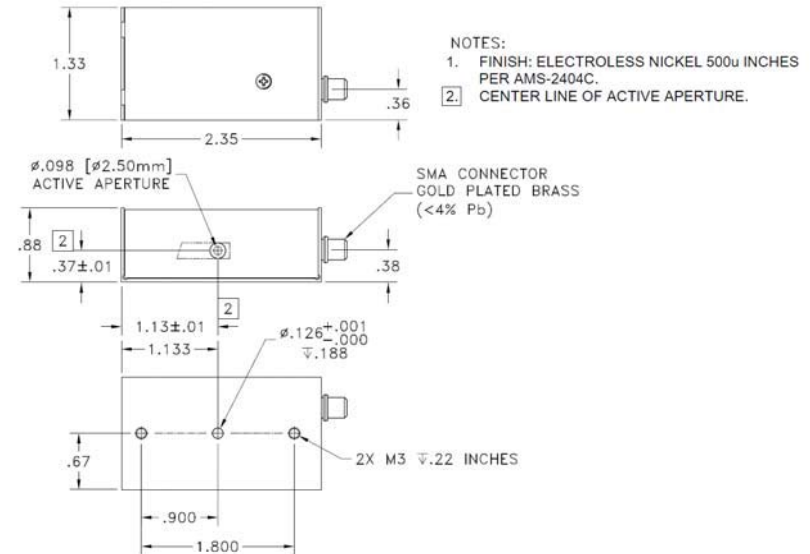
Wavelength (nm)	2000
Operational RF Power (W)	<12W
Bragg Angle (mr)	19
Beam Separation (mr)	38

PERFORMANCE VS BEAM DIAMETER

Beam Diameter (μm)	1000
at Wavelength (nm)	2000
Diffraction Efficiency (%)	>85
Rise Time (nsec)	160
Frequency(MHz)	

*Active Aperture: Aperture over which performance specifications apply.

Outline Drawing:



Document

10/19/20

Control

Notes:

MTBF 3500 hours with a 500W laser and a 1.5mm 1/e²

Coduction cooled. Mounting surface to be maintained at <40C with 10W dissipation

Max RF 12W.

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TOLERANCES: .XX ± .01 .XXX ± .005	DR	I. Medina 10/15/2020	 AOMO 3080-1916 2.0um		
MATERIAL:	CHK				
FINISH:	APP				
	APP		PART NUMBER: 97-03448-01	REV: 1	SHEET 1 OF 1