

SPECIFICATIONS

AO Medium	Germanium	
Acoustic Velocity	5.5 mm/μs	
Active Aperture*	6 mm 'L' X	3 mm 'H'
Center Frequency (Fc)	80 MHz	
RF Bandwidth	4 MHz @	-10 dB Return Loss
Input Impedance	50 Ohms Nominal	
VSWR @ Fc	1.6 :1 Max	
Wavelength	2800 nm	
Insertion Loss	2 % Max	
Reflectivity per Surface	.3 % Max	
Anti-Reflection Coating	MIL-C-48497	
Optical Power Density	1.5 KW/cm ²	
Contrast Ratio	1000 :1 Min	
Polarization	Horizontal ° To Mounting Plane	

PERFORMANCE VS WAVELENGTH

Wavelength (nm)	2800
Operational RF Power (W)	<5
Bragg Angle (mr)	20.4
Beam Separation (mr)	40.8

PERFORMANCE VS BEAM DIAMETER

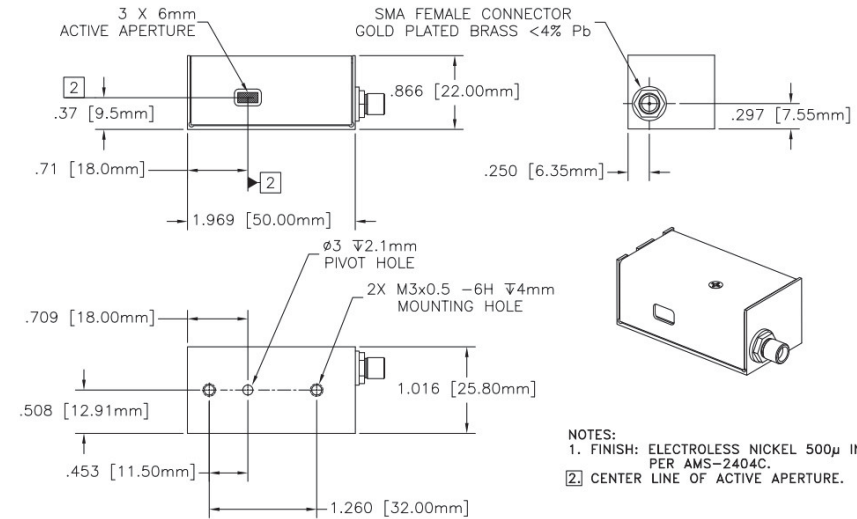
Beam Diameter (μm)	2000
at Wavelength (nm)	2800
Diffraction Efficiency (%)	90
Rise Time (nsec)	<250

Document

12/04/2024

Control

Outline Drawing:



Notes:

Physical optical path 20.5mm
Conduction cooled through base

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TOLERANCES: .XX ± .01 .XXX ± .005	DR	T. NG 10/10/2024	Gooch & Housego		
MATERIAL:	CHK		DESCRIPTION: AOMO 80MHz, 2.8um		
FINISH:	APP				
	APP		PART NUMBER: 97-03497-01	REV: 2	SHEET 1 OF 1

*Active Aperture: Aperture over which performance specifications apply.