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

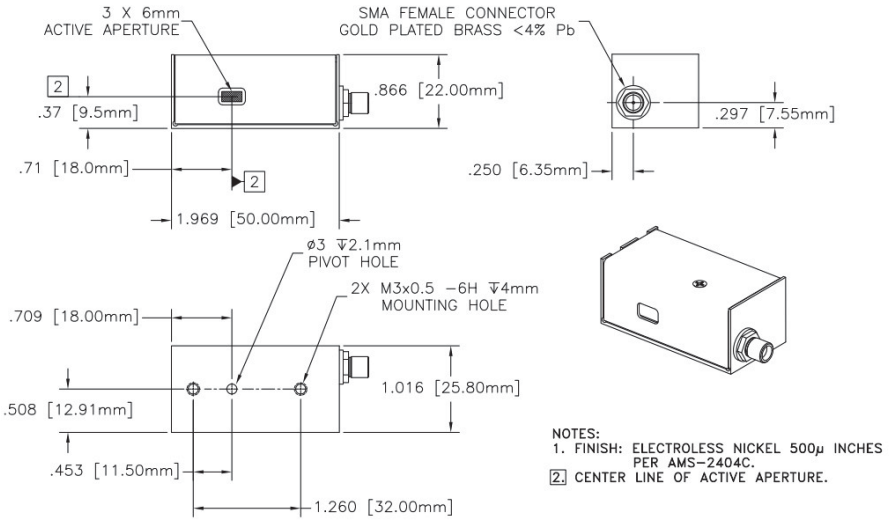
Document

12/04/2024

Control

*Active Aperture: Aperture over which performance specifications apply.

Outline Drawing:



Notes:
Physical optical path 20.5mm
Conduction cooled through base

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