

SPECIFICATIONS

AO Medium		TeO ₂
Acoustic Velocity		.66 mm/μs
Active Aperture*	2 mm 'L' X 2 mm 'H'	
Center Frequency (Fc)		80 MHz
RF Bandwidth	2 MHz @ -10 dB Return Loss	
Input Impedance		50 Ohms Nominal
VSWR @ Fc		1.6 :1 Max
Wavelength		633 nm
Insertion Loss		6 % Max
Reflectivity per Surface		3 % Max
Anti-Reflection Coating		MIL-C-48497
Optical Power Density		2 W/mm ²
Contrast Ratio		1000 :1 Min
Polarization		Horizontal ° To Mounting Plane

Document

09/27/21

Control

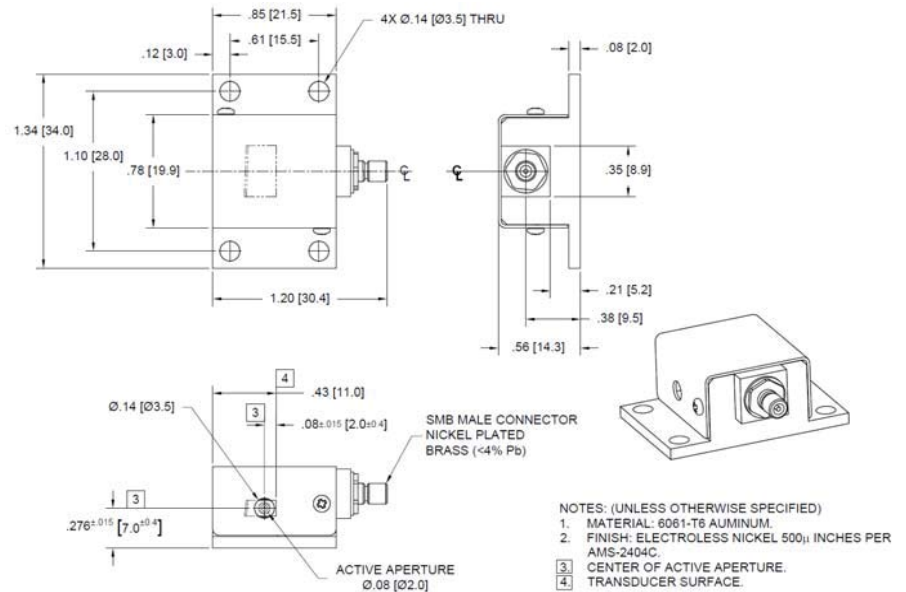
PERFORMANCE VS WAVELENGTH

Wavelength (nm)	633
Saturation RF Power (W)	.15
Bragg Angle (mr)	89
Beam Separation (mr)	178

PERFORMANCE VS BEAM DIAMETER

Beam Diameter (μm)	1100
at Wavelength (nm)	633
Diffraction Efficiency (%)	85
Rise Time (nsec)	1100
Frequency(MHz)	80

Outline Drawing:



Notes:

Diffacted beam is Vertical polarization for Horizontal input.
 Diffacted beam is Horizontal for Vertical input.
 Maximum RF 1W.

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TOLERANCES: .XX ± .01 .XXX ± .005	DR	G. Scholz 9/28/2021	 +AODF 4080 633NM 2X3MM		
MATERIAL:	CHK				
FINISH:	APP		PART NUMBER:	REV:	SHEET
	APP		97-03437-01	2	1 OF 1

*Active Aperture: Aperture over which performance specifications apply.