

## SPECIFICATIONS

AO Medium	TeO <sub>2</sub>		
Acoustic Velocity	4.2 mm/μs		
Active Aperture*	2.5 mm 'L' X	1.25 mm 'H'	
Center Frequency (Fc)	110 MHz		
RF Bandwidth	15 MHz @	-10 dB Return Loss	
Input Impedance	50 Ohms Nominal		
VSWR @ Fc	1.3 :1 Max		
Wavelength	1047-1060 nm		
Insertion Loss	4 % Max		
Reflectivity per Surface	.5 % Max		
Anti-Reflection Coating	MIL-C-48497		
Optical Power Density	10 MW/cm <sup>2</sup>		
Contrast Ratio	1000 :1 Min		
Polarization	90 ° To Mounting Plane		

## PERFORMANCE VS WAVELENGTH

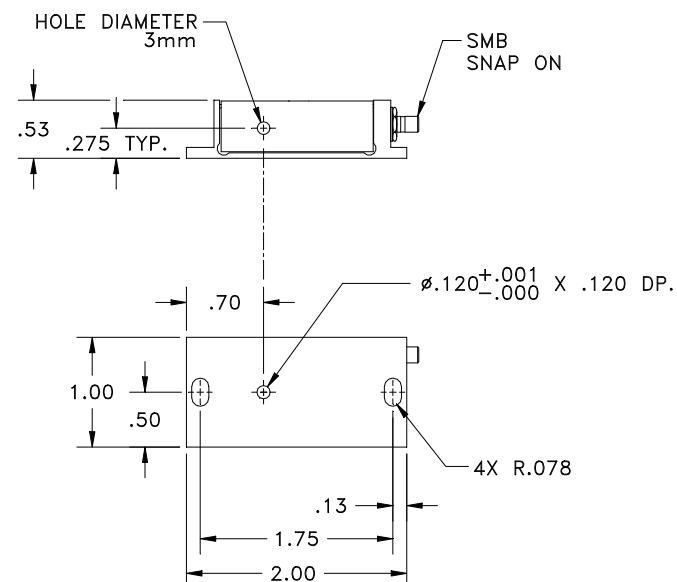
<b>Wavelength (nm)</b>	<b>1060</b>
Saturation RF Power (W)	2.5
Bragg Angle (mr)	13.9
Beam Separation (mr)	27.8

## PERFORMANCE VS BEAM DIAMETER

<b>Beam Diameter (μm)</b>	<b>1100</b>
at Wavelength (nm)	1060
Diffraction Efficiency (%)	90
Rise Time (nsec)	200
Modulation Bandwidth	3
Beam Ellipticity	NA

\*Active Aperture: Aperture over which performance specifications apply.

## Outline Drawing:



**Document**  
**10/31/13**  
**Control**

### Notes:

Diffraction Efficiency at 2.0 Watts RF Power.

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TOLERANCES: .XX ± .01 .XXX ± .005	DR	A. Campi 10/4/2013	 DESCRIPTION: <b>AOMO 3110-125</b>		
MATERIAL:	CHK				
FINISH:	APP				
	APP		PART NUMBER: 97-01672-03	REV: E	SHEET 1 OF 1