

## SPECIFICATIONS

AO Medium	TeO <sub>2</sub>	
Acoustic Velocity	4.2 mm/μs	
Active Aperture*	2.5 mm 'L' X	2 mm 'H'
Center Frequency (Fc)	80 MHz	
RF Bandwidth	25 MHz @	-9 dB Return Loss
Input Impedance	50 Ohms Nominal	
VSWR @ Fc	1.3 :1 Max	
Wavelength	442-633 nm	
Insertion Loss	5 % Max	
Reflectivity per Surface	1 % Max	
Anti-Reflection Coating	MIL-C-48497	
Optical Power Density	250 W/mm <sup>2</sup>	
Contrast Ratio	1000 :1 Min	
Polarization	90 ° To Mounting Plane	

## PERFORMANCE VS WAVELENGTH

<b>Wavelength (nm)</b>	<b>515</b>	<b>633</b>
Saturation RF Power (W)	0.65	1.0
Bragg Angle (mr)	4.9	6
Beam Separation (mr)	9.8	12

## PERFORMANCE VS BEAM DIAMETER

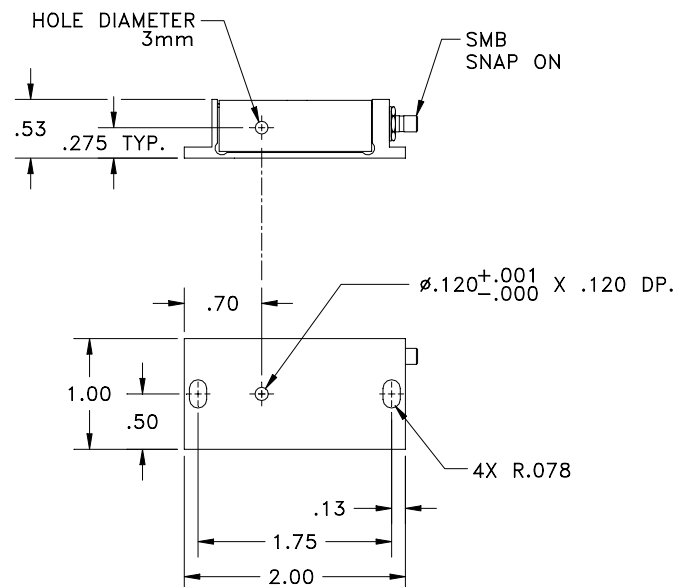
<b>Beam Diameter (μm)</b>	<b>125</b>	<b>200</b>	<b>400</b>
at Wavelength (nm)	633	633	633
Diffraction Efficiency (%)	65	80	90
Rise Time (nsec)	23	34	65
Modulation Bandwidth	20	12	6
Beam Ellipticity	NA	NA	NA

**For Reference  
Only**

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

## Outline Drawing:

## Package AOMO 3080-125



Notes:

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TOLERANCES: .XX ± .01 .XXX ± .005	DR	A. Campi 6/12/2002	Crystal Technology, Inc.		
MATERIAL:	CHK		DESCRIPTION: <b>AOMO 3080-125</b>		
FINISH:	APP				
	APP		PART NUMBER: 97-01598-01	REV: C	SHEET 1 OF 1