

SPECIFICATIONS

AO Medium	TeO ₂	
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 ²	
Contrast Ratio	1000 :1 Min	
Polarization	90 ° To Mounting Plane	

PERFORMANCE VS WAVELENGTH

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

PERFORMANCE VS BEAM DIAMETER

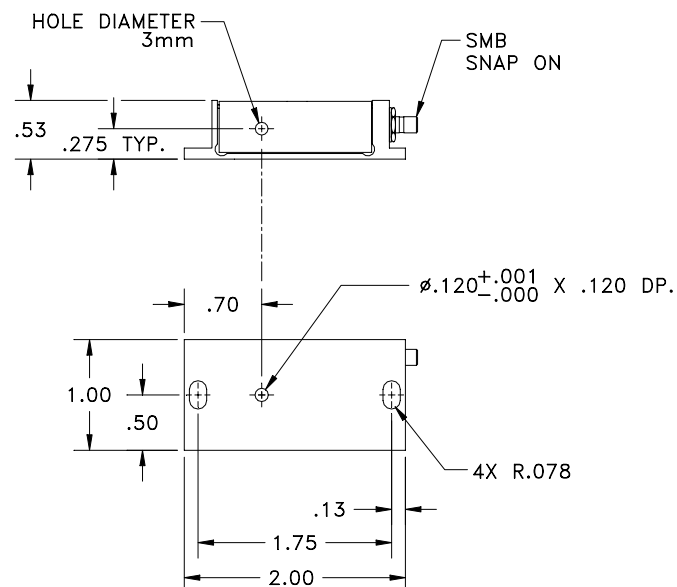
Beam Diameter (μm)	125	200	400
at Wavelength (nm)	633	633	633
Diffraction Efficiency (%)	65	80	90
Rise Time (nsec)	23	34	65
Modulation Bandwidth	20	12	6
Beam Ellipticity	NA	NA	NA

**For Reference
Only**

*Active Aperture: Aperture over which performance specifications apply.

Outline Drawing:

Package AOMO 3080-125



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Notes:

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