

SPECIFICATIONS

AO Medium	TeO ₂	
Acoustic Velocity	4.2 mm/μs	
Active Aperture*	2.5 mm 'L' X	1 mm 'H'
Center Frequency (Fc)	80 MHz	
RF Bandwidth	20 MHz @ -10 dB Return Loss	
Input Impedance	50 Ohms Nominal	
VSWR @ Fc	1.3 :1 Max	
Wavelength	780-850 nm	
Insertion Loss	3 % Max	
Reflectivity per Surface	0.25 % 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)	830
Saturation RF Power (W)	1
Bragg Angle (mr)	7.9
Beam Separation (mr)	15.8

PERFORMANCE VS BEAM DIAMETER

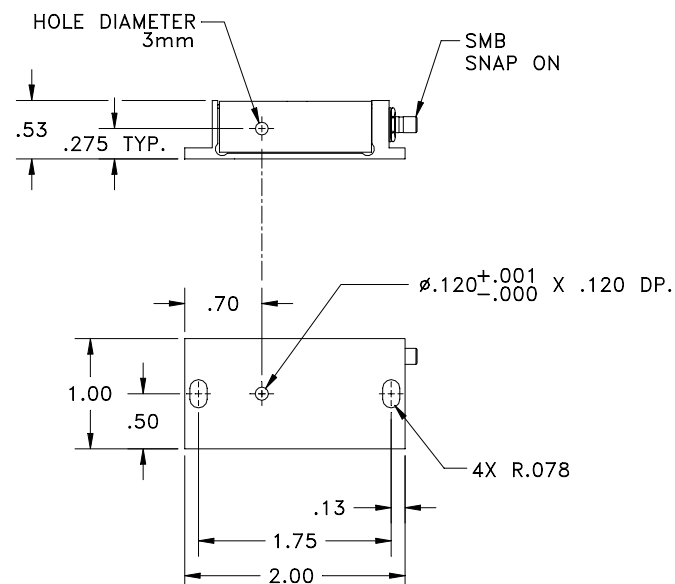
Beam Diameter (μm)	200	250	500
<i>at Wavelength (nm)</i>	830	830	830
Diffraction Efficiency (%)	70	80	85
Rise Time (nsec)	34	41	80
Modulation Bandwidth	15.9	12.65	6.3
	15	10	1

**For Reference
Only**

*Active Aperture: Aperture over which performance specifications apply.

Outline Drawing:

Package AOMO 3080-122



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Notes:

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TOLERANCES: .XX ± .01 .XXX ± .005	DR	A. Campi 2/21/2003	Crystal Technology, Inc.		
MATERIAL:	CHK		DESCRIPTION: AOMO 3080-122		
FINISH:	APP				
	APP		PART NUMBER: 97-01280-01	REV: D	SHEET 1 OF 1