

SPECIFICATIONS

AO Medium		TeO2
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		442-633 nm
Insertion Loss		4 % 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)	442	488	515	633
Saturation RF Power (W)	0.27	0.33	0.36	0.55
Bragg Angle (mr)	4.2	4.6	4.9	6
Beam Separation (mr)	8.4	9.2	9.8	12

PERFORMANCE VS BEAM DIAMETER

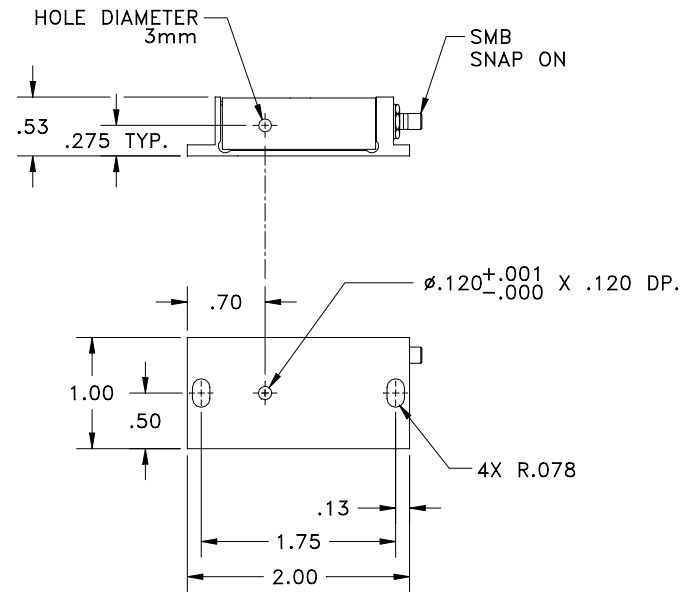
Beam Diameter (μm)	200	300	500
at Wavelength (nm)	633	633	633
Diffraction Efficiency (%)	80	83	85
Rise Time (nsec)	34	49	80
	15.9	10.6	6.3
	10	5	1

**For Reference
Only**

*Active Aperture: Aperture over which performance specifications apply.

Outline Drawing:

Package AOMO 3080-120



Notes:
Optical Ghosting Due To Acoustic Reflection 0.5% Maximum.

THIS DOCUMENT IS THE PROPERTY OF CRYSTAL TECHNOLOGY, INC. IT IS NOT TO BE REPRODUCED OR DISCLOSED IN WHOLE OR IN PART OTHER THAN BY EMPLOYEES CRYSTAL TECHNOLOGY AND ITS CONTRACTED REPRESENTATIVES AND DISTRIBUTERS. ANY EXCEPTION REQUIRES THE WRITTEN CONSENT OF AN AUTHORIZED REPRESENTATIVE OF CRYSTAL TECHNOLOGY.

TOLERANCES: .XX ± .01 .XXX ± .005	DR	A. Campi 6/17/2002	Crystal Technology, Inc. DESCRIPTION: AOMO 3080-120
MATERIAL:	CHK		
FINISH:	APP		
	APP		PART NUMBER: 99-48201-11
			REV: F
			SHEET 1 OF 1