

SPECIFICATIONS

AO Medium	TeO ₂
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	0.5 % Max
Anti-Reflection Coating	MIL-C-48497
Optical Power Density	10 MW/cm ²
Contrast Ratio	1000:1 Min
Polarization	90 ° To Mounting Plane

PERFORMANCE VS WAVELENGTH

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

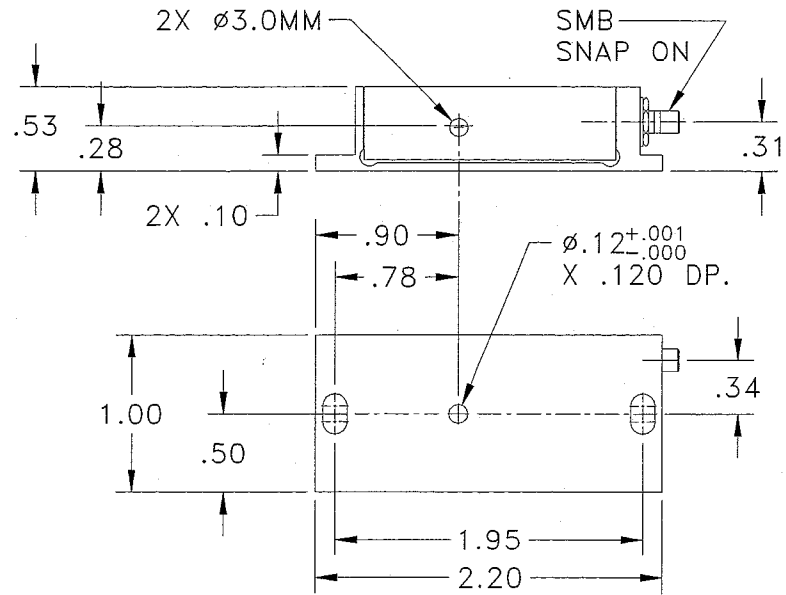
PERFORMANCE VS BEAM DIAMETER

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

*Active Aperture: Aperture over which performance specifications apply.

Outline Drawing:

Package 97-01672-11



For Reference Only

DOCUMENT CONTROL

APR 22 2005

Notes:
Diffraction Efficiency at 2.0 Watts RF Power.

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 DISTRIBUTORS. ANY EXCEPTION REQUIRES THE WRITTEN CONSENT OF AN AUTHORIZED REPRESENTATIVE OF CRYSTAL TECHNOLOGY.

TOLERANCES: .XX ± .01 .XXX ± .005	DR	T Ng 4/19/2005	Crystal Technology, Inc.
MATERIAL:	CHK	R.D.4/19/05	
FINISH:	APP		PART NUMBER: 97-01672-11
	APP		REV: A
			SHEET 1 OF 1