

**SPECIFICATIONS**

AO Medium		TeO <sub>2</sub>
Acoustic Velocity		4.2 mm/μs
Active Aperture*	2.5 mm 'L' X	0.32 mm 'H'
Center Frequency (Fc)		200 MHz
RF Bandwidth	50 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		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**

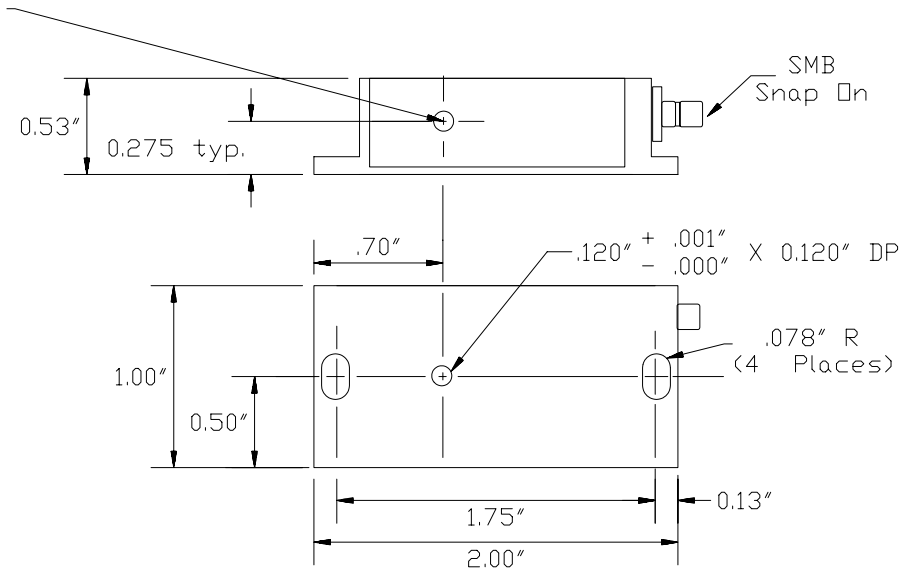
<b>Wavelength (nm)</b>	<b>830</b>
Saturation RF Power (W)	2.0
Bragg Angle (mr)	19.8
Beam Separation (mr)	39.6

**PERFORMANCE VS BEAM DIAMETER**

<b>Beam Diameter (μm)</b>	<b>150</b>
<i>at Wavelength (nm)</i>	830
Diffraction Efficiency (%)	70*
Rise Time (nsec)	29
Modulation Bandwidth	21.0
Beam Ellipticity	10

**For Reference  
Only**

**Outline Drawing: Package Style 2**



Notes:  
\*Diffraction Efficiency at 1 Watt RF Power.

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TOLERANCES: .XX ± .01 .XXX ± .005	DR	A. Campi 6/27/2002	<b>Crystal Technology, Inc.</b>
MATERIAL:	CHK		
FINISH:	APP		PART NUMBER: <b>97-01544-01</b>
	APP		REV: <b>F</b>
			SHEET 1 OF 1

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