

SPECIFICATIONS

AO Medium		TeO <sub>2</sub>
Acoustic Velocity		4.2 mm/μs
Active Aperture*	1 mm 'L' X	0.1 mm 'H'
Center Frequency (Fc)		180 MHz
RF Bandwidth	90 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		50 MW/cm <sup>2</sup>
Contrast Ratio		1000 :1 Min
Polarization		0 ° To Mounting Plane

**For Reference Only**

PERFORMANCE VS WAVELENGTH

<b>Wavelength (nm)</b>	<b>1060</b>
Saturation RF Power (W)	2.5
Bragg Angle (mr)	22.7
Beam Separation (mr)	45.4

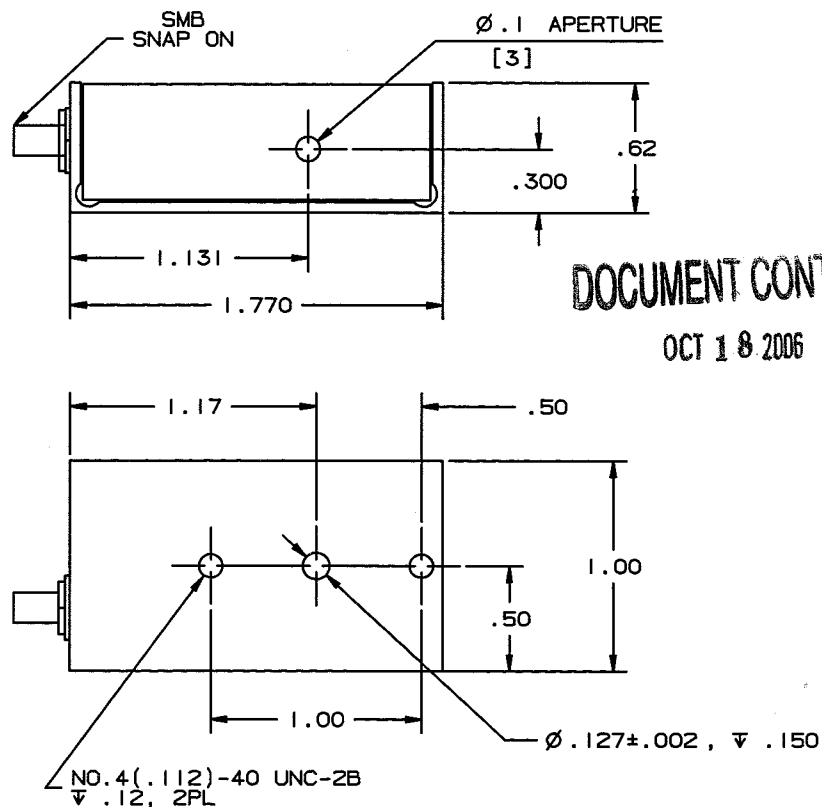
PERFORMANCE VS BEAM DIAMETER

<b>Beam Diameter (μm)</b>	<b>60</b>
<i>at Wavelength (nm)</i>	1060
Diffraction Efficiency (%)	80
Rise Time (nsec)	11
Modulation Bandwidth	NA
Beam Ellipticity	NA

<b>Special Testing</b>	<b>Min</b>	<b>Units</b>	<b>Max</b>
Loss Modulation	85	%	

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

Outline Drawing: Package Style 1, w/ heat sink



**DOCUMENT CONTROL**  
OCT 18 2006

**Notes:**  
Loss Modulation 85% Min. at 60 μm beam diameter.

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TOLERANCES: XX ± .01 .XXX ± .005	DR	A. Campi 4/10/2006	<b>Crystal Technology, Inc.</b>		
MATERIAL:	CHK				
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