

**SPECIFICATIONS**

AO Medium		TeO2
Acoustic Velocity		4.2 mm/μs
Active Aperture*	2.5 mm 'L' X	0.6 mm 'H'
Center Frequency (Fc)		110 MHz
RF Bandwidth	24 MHz @	-10 dB Return Loss
Input Impedance		50 Ohms Nominal
VSWR @ Fc		1.3 :1 Max
Wavelength		442-488 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**

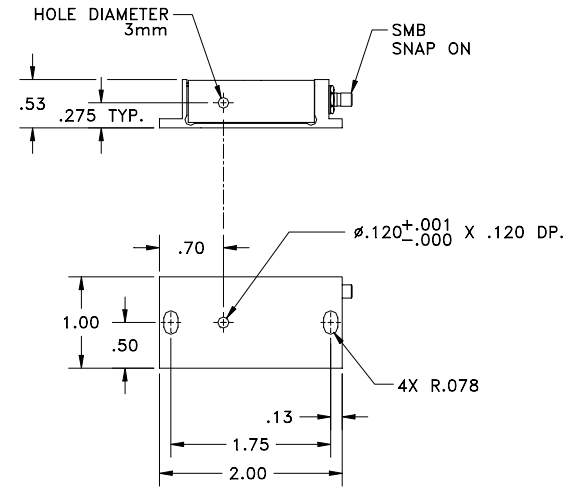
<b>Wavelength (nm)</b>	<b>488</b>
Saturation RF Power (W)	0.4
Bragg Angle (mr)	6.4
Beam Separation (mr)	12.8

**PERFORMANCE VS BEAM DIAMETER**

<b>Beam Diameter (μm)</b>	<b>100</b>	<b>150</b>	<b>200</b>
<i>at Wavelength (nm)</i>	488	488	488
Diffraction Efficiency (%)	70	75	80
Rise Time (nsec)	18	25	33
Modulation Bandwidth	28	24	15.8
	20	9	5

**For Reference  
Only**

**Outline Drawing: Package AOMO 3110-121**



Notes:

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TOLERANCES: .XX ± .01 .XXX ± .005	DR	A. Campi 6/17/2002	<b>Crystal Technology, Inc.</b> DESCRIPTION: <b>AOMO 3110-121</b> 110 MHz SMB-2 High Damage A.R.
MATERIAL:	CHK		
FINISH:	APP		PART NUMBER: 97-01638-01
	APP		REV: E
			SHEET 1 OF 1

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