

**SPECIFICATIONS**

AO Medium			TeO <sub>2</sub>
Acoustic Velocity			4.2 mm/μs
Active Aperture*	2.5 mm 'L' X		1.5 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			470-690 nm
Insertion Loss			4 % 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>470</b>	<b>532</b>	<b>633</b>	<b>690</b>
Saturation RF Power (W)	0.4	0.6	0.9	1.1
Bragg Angle (mr)	11.2	12.7	15.1	16.4
Beam Separation (mr)	22.4	25.4	30.2	32.8

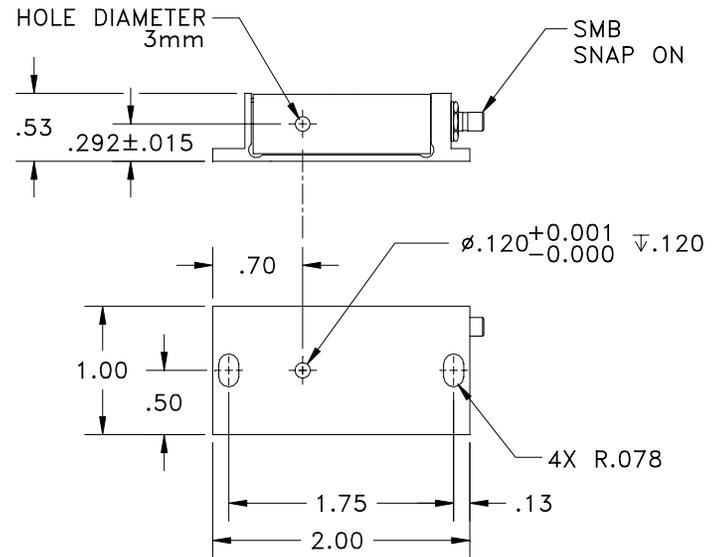
**PERFORMANCE VS BEAM DIAMETER**

<b>Beam Diameter (μm)</b>	<b>1000</b>	<b>1000</b>	<b>1000</b>	<b>1000</b>
<i>at Wavelength (nm)</i>	470	532	633	690
Diffraction Efficiency (%)	85	85	85	85
Rise Time (nsec)	159	159	159	159



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

**Outline Drawing:**



**Document**

**05/03/11**

**Control**

Notes:  
1. Measurements are in inches unless specified otherwise.

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TOLERANCES: .XX ± .01 .XXX ± .005	DR	Gerri Scholz 4/19/2011	DESCRIPTION: <b>AOMO 3200-125</b> 200 MHz Frequency Shifter	
MATERIAL:	CHK		PART NUMBER:	REV:
FINISH:	APP		97-03036-01	C
	APP			SHEET 1 OF 1