

**SPECIFICATIONS**

AO Medium		TeO2
Acoustic Velocity		4.2 mm/μs
Active Aperture*	2.5 mm 'L' X	1.5 mm 'H'
Center Frequency (Fc)		100 MHz
RF Bandwidth	25 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

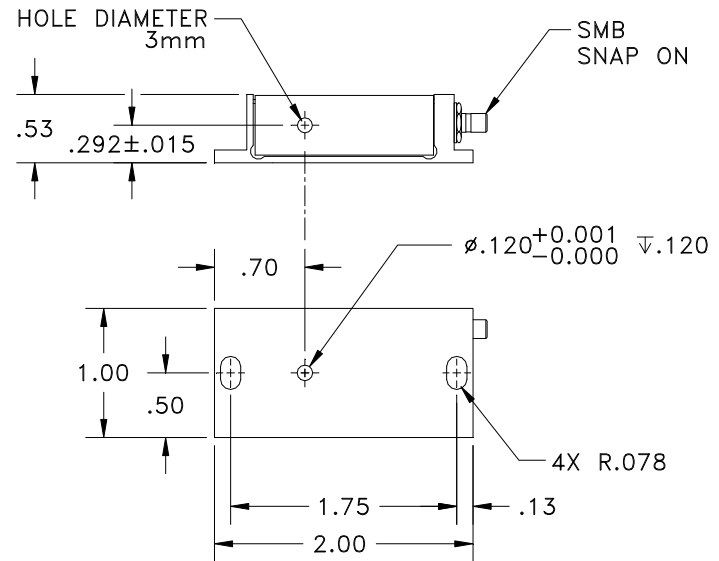
**PERFORMANCE VS WAVELENGTH**

Wavelength (nm)	470	532	633	690
Saturation RF Power (W)	0.4	0.6	0.9	1.1
Bragg Angle (mr)	5.6	6.3	7.5	8.2
Beam Separation (mr)	11.2	12.6	15	16.4

**PERFORMANCE VS BEAM DIAMETER**

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

**Outline Drawing:**



**Document**  
**10/31/13**  
**Control**

Notes:

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TOLERANCES: .XX ± .01 .XXX ± .005	DR	Geri Scholz 10/8/2013	 DESCRIPTION: <b>AOMO 3100-125</b> 100 MHz Frequency Shifter
MATERIAL:	CHK		
FINISH:	APP		
	APP		PART NUMBER: 97-03035-01    REV: C    SHEET 1 OF 1

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