

## 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)	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		

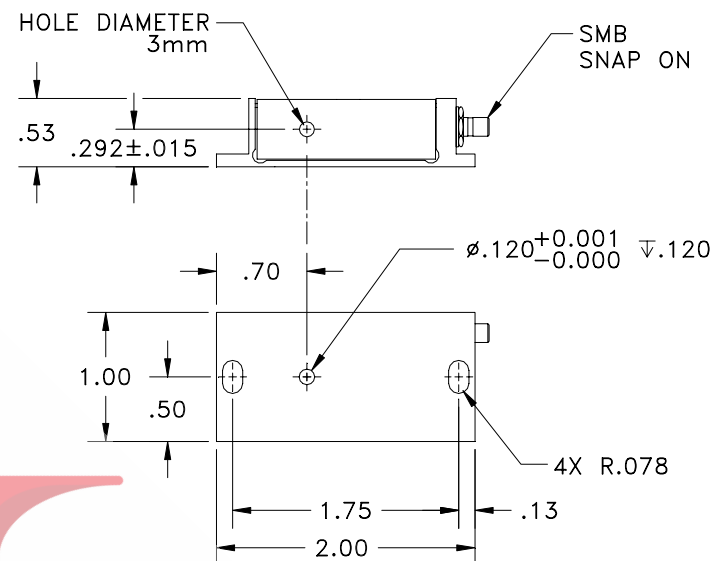
## PERFORMANCE VS WAVELENGTH

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
at Wavelength (nm)	470	532	633	690
Diffraction Efficiency (%)	85	85	85	85
Rise Time (nsec)	159	159	159	159

## Outline Drawing:



Document

04/26/11

Control

Notes:

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TOLERANCES: XX ± .01 .XXX ± .005	DR	Geri Scholz 4/19/2011	Crystal Technology, LLC	
MATERIAL:	CHK		DESCRIPTION: <b>AOMO 3100-125</b> 100 MHz Frequency Shifter	
FINISH:	APP		PART NUMBER:	REV:
	APP		97-03035-01	B
				SHEET 1 OF 1

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