

SPECIFICATIONS

AO Medium		TeO ₂
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 ²
Contrast Ratio		1000 :1 Min
Polarization		90° To Mounting Plane

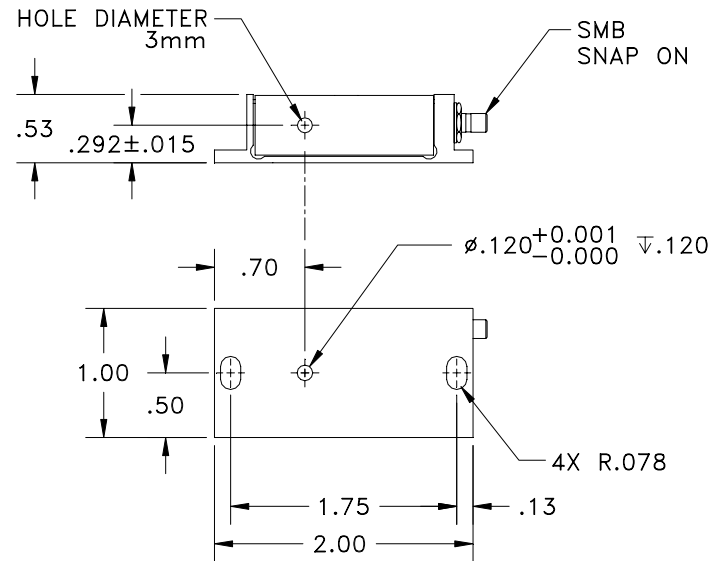
PERFORMANCE VS WAVELENGTH

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) at Wavelength (nm)	1000	1000	1000	1000
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	Gerri Scholz 4/19/2011	<p>AOMO 3100-125 100 MHz Frequency Shifter</p>
MATERIAL:	CHK		
FINISH:	APP		
	APP		PART NUMBER: 97-03035-01 REV: B SHEET 1 OF 1

*Active Aperture: Aperture over which performance specifications apply.