

SPECIFICATIONS

AO Medium		TeO2
Acoustic Velocity		4.2 mm/μs
Active Aperture*	2.5 mm 'L' X	1 mm 'H'
Center Frequency (Fc)		80 MHz
RF Bandwidth	20 MHz @	-10 dB Return Loss
Input Impedance		50 Ohms Nominal
VSWR @ Fc		1.3 :1 Max
Wavelength		780-950 nm
Insertion Loss		3 % 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	

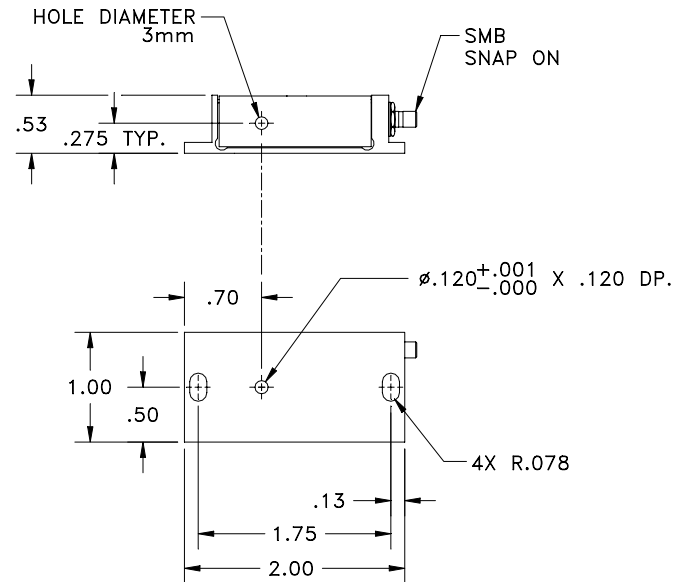
PERFORMANCE VS WAVELENGTH

Wavelength (nm)	830
Saturation RF Power (W)	1
Bragg Angle (mr)	7.9
Beam Separation (mr)	15.8

PERFORMANCE VS BEAM DIAMETER

Beam Diameter (μm)	200	250	500
<i>at Wavelength (nm)</i>	830	830	830
Diffraction Efficiency (%)	70	80	85
Rise Time (nsec)	34	41	80
Modulation Bandwidth	15.9	12.65	6.3
	15	10	1

Outline Drawing:



Notes:
AR coating performance at 830nm <.5%/surface

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TOLERANCES: .XX ± .01 .XXX ± .005	DR	A. Campi 1/22/2008	Crystal Technology, Inc. DESCRIPTION: AOMO 3080-122 830nm
MATERIAL:	CHK		
FINISH:	APP		
	APP		PART NUMBER: 97-01280-01
			REV: E
			SHEET 1 OF 1

*Active Aperture: Aperture over which performance specifications apply.