

SPECIFICATIONS

AO Medium		TeO2
Acoustic Velocity		4.2 mm/μs
Active Aperture*	2.5 mm 'L' X	0.6 mm 'H'
Center Frequency (Fc)		110 MHz
RF Bandwidth	24 MHz @	-10 dB Return Loss
Input Impedance		50 Ohms Nominal
VSWR @ Fc		1.3:1 Max
Wavelength		442-633 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

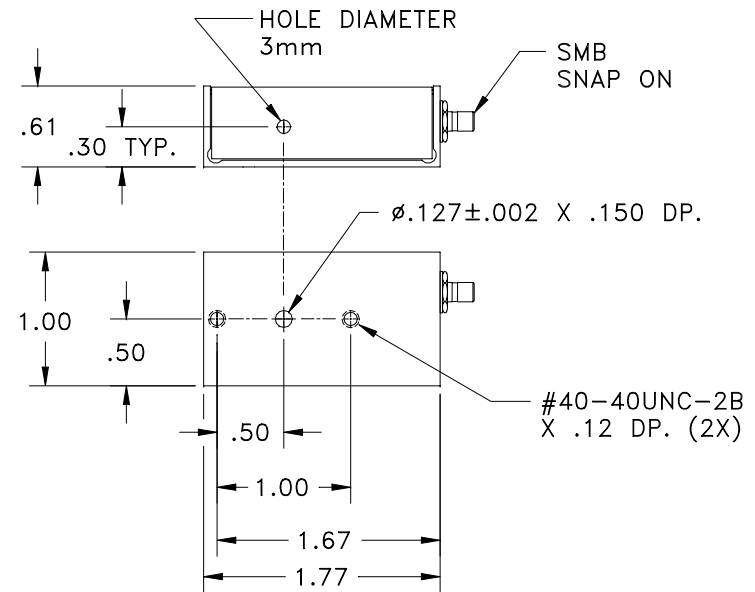
Wavelength (nm)	442	488	515	633
Saturation RF Power (W)	0.29	0.39	0.43	0.65
Bragg Angle (mr)	5.8	6.4	6.7	8.3
Beam Separation (mr)	11.6	12.8	13.4	16.6

PERFORMANCE VS BEAM DIAMETER

Beam Diameter (μm)	110	130	200	500
at Wavelength (nm)	633	633	633	633
Diffraction Efficiency (%)	70	75	80	83
Rise Time (nsec)	25	28	39	86
Modulation Bandwidth	28	24	15.8	6.3
	20	10	5	1

For Reference Only

Outline Drawing: Package AOMO 3110-110



Notes:

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TOLERANCES: .XX ± .01 .XXX ± .005	DR	A. Campi 6/10/2003	Crystal Technology, Inc.
MATERIAL:	CHK		
FINISH:	APP		PART NUMBER: 99-48012-10
	APP		REV: D
			SHEET 1 OF 1

*Active Aperture: Aperture over which performance specifications apply.