

SPECIFICATIONS

AO Medium	TeO ₂
Acoustic Velocity	4.2 mm/μs
Active Aperture*	2.5 mm 'L' X 1.25 mm 'H'
Center Frequency (Fc)	110 MHz
RF Bandwidth	15 MHz @ -10 dB Return Loss
Input Impedance	50 Ohms Nominal
VSWR @ Fc	1.3 :1 Max
Wavelength	1047-1060 nm
Insertion Loss	4 % Max
Reflectivity per Surface	0.5 % Max
Anti-Reflection Coating	MIL-C-48497
Optical Power Density	10 MW/cm ²
Contrast Ratio	1000 :1 Min
Polarization	90 ° To Mounting Plane

PERFORMANCE VS WAVELENGTH

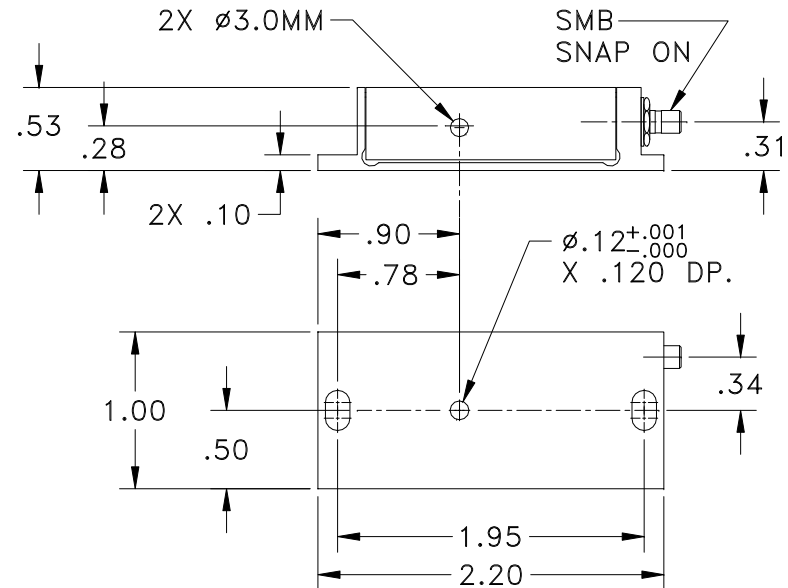
Wavelength (nm)	1060
Saturation RF Power (W)	2.5
Bragg Angle (mr)	13.9
Beam Separation (mr)	27.8

PERFORMANCE VS BEAM DIAMETER

Beam Diameter (μm)	1100
at Wavelength (nm)	1060
Diffraction Efficiency (%)	90
Rise Time (nsec)	200
Modulation Bandwidth	3
Beam Ellipticity	NA

*Active Aperture: Aperture over which performance specifications apply.

Outline Drawing:



Document

10/31/13

Control

Notes:

Diffraction Efficiency at 2.0 Watts RF Power.

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TOLERANCES: .XX ± .01 .XXX ± .005	DR	T Ng 10/7/2013	 DESCRIPTION: AOMO 3110-197		
MATERIAL:	CHK				
FINISH:	APP				
	APP		PART NUMBER: 97-01672-11	REV: B	SHEET 1 OF 1