

SPECIFICATIONS

AO Medium	TeO ₂		
Acoustic Velocity	4.2 mm/μs		
Active Aperture*	2.5 mm 'L' X	0.45 mm 'H'	
Center Frequency (Fc)	200 MHz		
RF Bandwidth	50 MHz @	-10 dB Return Loss	
Input Impedance	50 Ohms Nominal		
VSWR @ Fc	1.3 :1 Max		
Wavelength	413-442 nm		
Insertion Loss	5 % 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

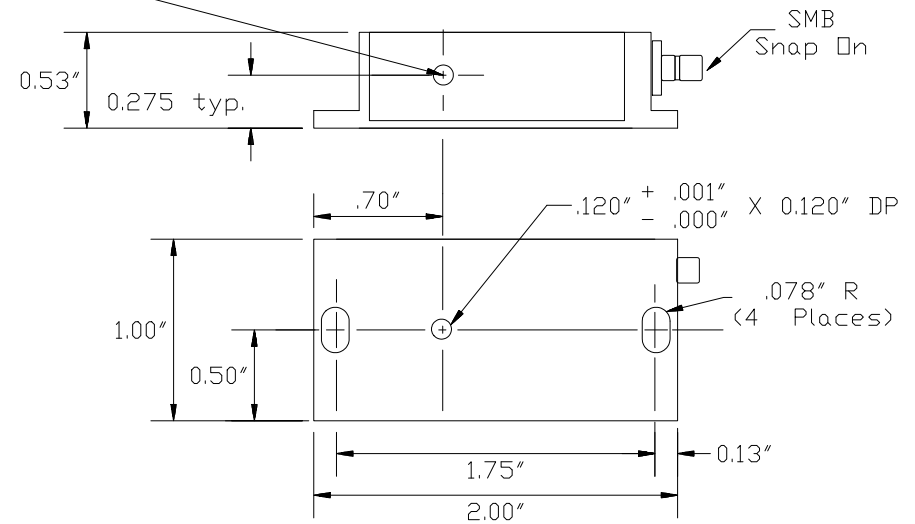
Wavelength (nm)	488	413
Saturation RF Power (W)	0.6	0.4
Bragg Angle (mr)	11.6	9.8
Beam Separation (mr)	23.2	19.6

PERFORMANCE VS BEAM DIAMETER

Beam Diameter (μm)	60	80	100	120
at Wavelength (nm)	413	413	413	413
Diffraction Efficiency (%)	75	80	80	80
Rise Time (nsec)	13	16	19	22
Modulation Bandwidth	52	40	31	26.5
Beam Ellipticity	15	8	4	2

*Active Aperture: Aperture over which performance specifications apply.

Outline Drawing:



Document

10/31/13

Control

Notes:

THIS DOCUMENT IS THE PROPERTY OF GOOCH AND HOUSEGO. IT IS NOT TO BE REPRODUCED OR DISCLOSED IN WHOLE OR IN PART OTHER THAN BY EMPLOYEES OF GOOCH AND HOUSEGO AND ITS CONTRACTED REPRESENTATIVES AND DISTRIBUTORS. ANY EXCEPTION REQUIRES THE WRITTEN CONSENT OF AN AUTHORIZED REPRESENTATIVE OF GOOCH AND HOUSEGO.

TOLERANCES: .XX ± .01 .XXX ± .005	DR	Geri Scholz 10/7/2013	 AOMO 3200-129 200 MHz SMB-2 413 nm		
MATERIAL:	CHK				
FINISH:	APP				
	APP				
PART NUMBER:			97-02197-01	REV: B	SHEET 1 OF 1