

SPECIFICATIONS

AO Medium	TeO2		
Acoustic Velocity	.66 mm/μs		
Active Aperture*	1.75 mm 'L' X	1.75 mm 'H'	
Center Frequency (Fc)	30 MHz		
RF Bandwidth	25 MHz @	-7 dB	Return Loss
Input Impedance	50 Ohms Nominal		
VSWR @ Fc	2.5 :1 Max		
Wavelength	680-1300 nm		
Insertion Loss	5 % Max		
Reflectivity per Surface	2 % Max		
Anti-Reflection Coating	MIL-C-48497		
Optical Power Density	<250 W/mm ²		
Contrast Ratio	1000 :1 Min		
Polarization	Perpendicular ° To Mounting Plane		

PERFORMANCE VS WAVELENGTH

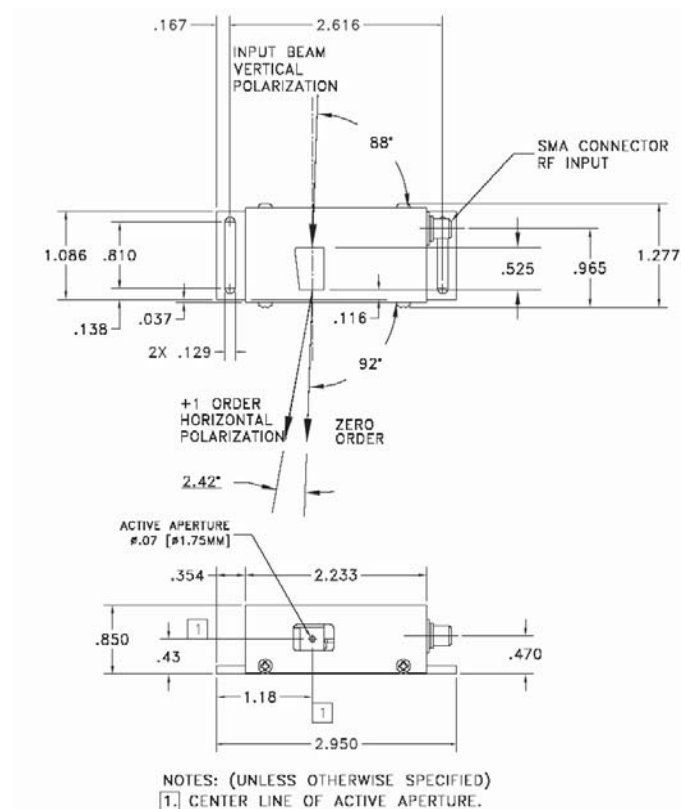
Wavelength (nm)	680	990	1300
Operational RF Power (W)	<1	<1	<1.2
Bragg Angle (mr)	34.8	34.8	34.8
Beam Separation (mr)	69.6	69.6	69.6

PERFORMANCE VS BEAM DIAMETER

Beam Diameter (μm)	980	980	980
at Wavelength (nm)	680	990	1300
Diffraction Efficiency (%)	90	90	80
Rise Time (nsec)	991	991	991
Frequency(MHz)	39.9	27.4	20.9
Chromatic Spread angle(urad/nm)	60	41	31

Document
09/20/2024
Control

Outline Drawing:



Notes:

Frequency Tuning to control output diffraction angle.
Beam pointing error +/-40urad change in RF Power(i.e. .2-1.2W).
Ambient Operating temperature 20-30C.
Maximum RF 2.5W
Beam Separation 42mrad

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	T. NG 9/19/2024	Gooch & Housego				
MATERIAL:	CHK		DESCRIPTION: AOMO 3030 .68-1.3um, Shear				
FINISH:	APP		PART NUMBER: 97-03358-03	REV: 3	SHEET 1 OF 1		
	APP						

*Active Aperture: Aperture over which performance specifications apply.