

SPECIFICATIONS

AO Medium	TeO ₂		
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	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		

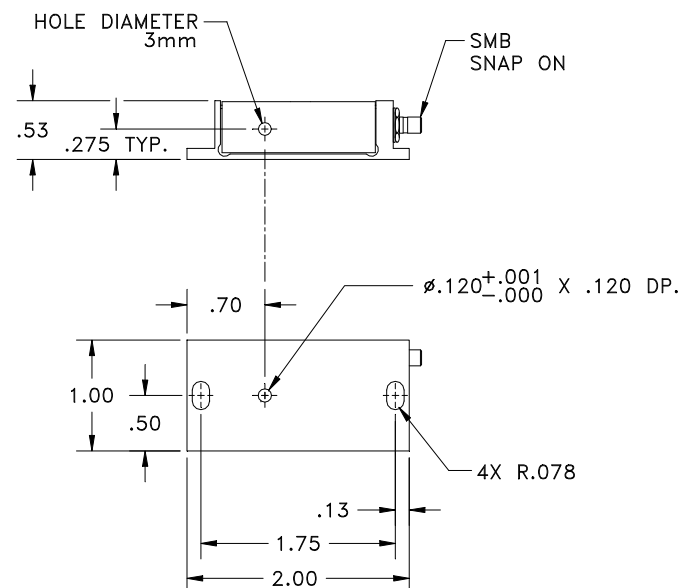
PERFORMANCE VS WAVELENGTH

Wavelength (nm)	442	488	515	633
Saturation RF Power (W)	0.27	0.33	0.36	0.55
Bragg Angle (mr)	4.2	4.6	4.9	6
Beam Separation (mr)	8.4	9.2	9.8	12

PERFORMANCE VS BEAM DIAMETER

Beam Diameter (μm) at Wavelength (nm)	200	300	500
	633	633	633
Diffraction Efficiency (%)	80	83	85
Rise Time (nsec)	34	49	80
	15.9	10.6	6.3
	10	5	1

Outline Drawing:



Document
10/31/13
Control

Notes:

Optical Ghosting Due To Acoustic Reflection 0.5% Maximum.

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TOLERANCES: .XX ± .01 .XXX ± .005	DR	A. Campi 10/7/2013	 DESCRIPTION: AOMO 3080-120		
MATERIAL:	CHK				
FINISH:	APP				
	APP		PART NUMBER: 99-48201-11	REV: G	SHEET 1 OF 1

*Active Aperture: Aperture over which performance specifications apply.