

SPECIFICATIONS

AO Medium	TeO ₂	
Acoustic Velocity	4.2 mm/μs	
Active Aperture*	2.5 mm 'L' X	0.32 mm 'H'
Center Frequency (Fc)	200 MHz	
RF Bandwidth	50 MHz @	-9 dB Return Loss
Input Impedance	50 Ohms Nominal	
VSWR @ Fc	1.3:1 Max	
Wavelength	440-850 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	

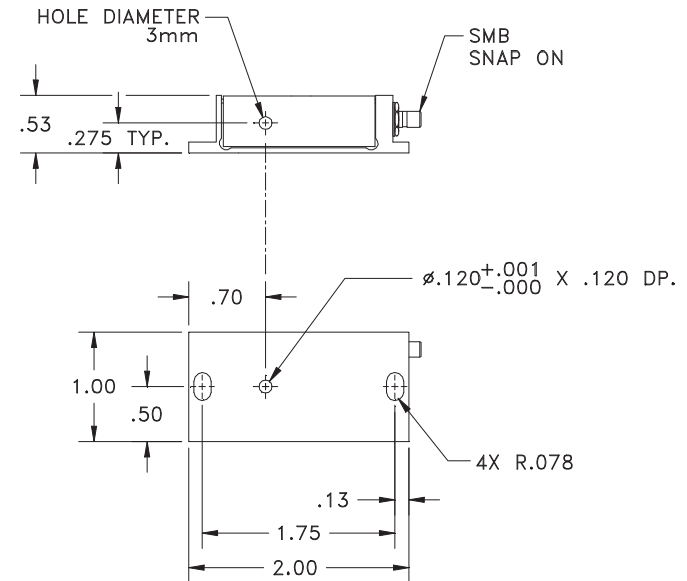
PERFORMANCE VS WAVELENGTH

Wavelength (nm)	515	633
Saturation RF Power (W)	0.7	1.0
Bragg Angle (mr)	12.3	15.1
Beam Separation (mr)	24.6	30.2

PERFORMANCE VS BEAM DIAMETER

Beam Diameter (μm)	60	80	100	120
at Wavelength (nm)	633	633	633	633
Diffraction Efficiency (%)	70	75	80	80
Rise Time (nsec)	14	17	20	23
Modulation Bandwidth	52	40	31	26.5
	15	8	4	2

Outline Drawing:



Document

07/31/18

Control

Notes:

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TOLERANCES: .XX ± .01 .XXX ± .005	DR	G. Scholz 7/25/2018	 AOMO 3200-121 SMB-2 (FLANGED)		
MATERIAL:	CHK				
FINISH:	APP				
	APP		PART NUMBER: 99-48146-11	REV: G	SHEET 1 OF 1

*Active Aperture: Aperture over which performance specifications apply.