

SPECIFICATIONS

AO Medium	TeO ₂		
Acoustic Velocity	4.2 mm/μs		
Active Aperture*	2.5 mm 'L' X	1.5 mm 'H'	
Center Frequency (Fc)	315 MHz		
RF Bandwidth	50 MHz @	-10 dB Return Loss	
Input Impedance	50 Ohms Nominal		
VSWR @ Fc	1.5 :1 Max		
Wavelength	470-850 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

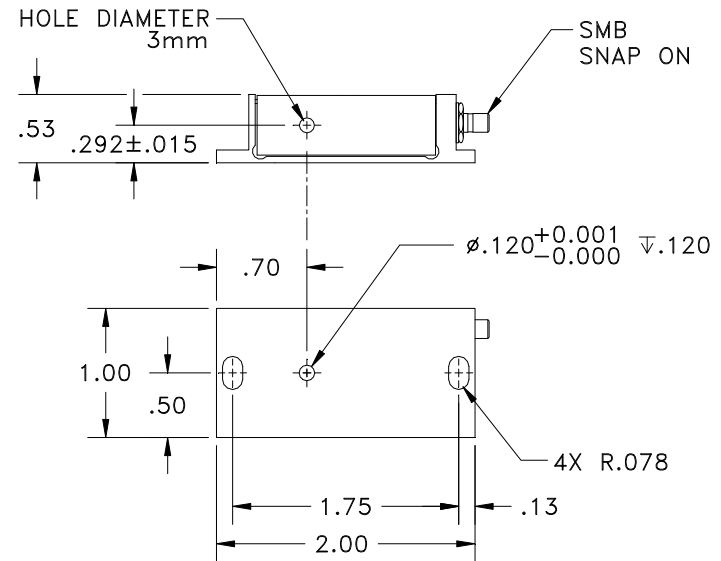
Wavelength (nm)	488	532	633	800
Operational RF Power (W)	0.5	0.7	1	1.5
Bragg Angle (mr)	18.3	20	23.7	30
Beam Separation (mr)	36.6	40	47.4	60

PERFORMANCE VS BEAM DIAMETER

Beam Diameter (μm)	800	800	800	800
at Wavelength (nm)	488	532	633	800
Diffraction Efficiency (%)	85	85	80	80
Rise Time (nsec)	128	128	128	128

*Active Aperture: Aperture over which performance specifications apply.

Outline Drawing:



Document

10/31/13

Control

Notes:

Max. Diffraction Efficiency achieved between 650 nm and 850 nm : 60%

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TOLERANCES: .XX ± .01 .XXX ± .005	DR	Geri Scholz 10/8/2013	 AOMO 3315-125 315 MHz Frequency Shifter		
MATERIAL:	CHK				
FINISH:	APP				
	APP				
			PART NUMBER:	97-03152-02	REV: B
			SHEET 1 OF 1		