

SPECIFICATIONS

AO Medium	TeO ₂	
Acoustic Velocity	4.2 mm/μs	
Active Aperture*	2.5 mm 'L' X	2 mm 'H'
Center Frequency (Fc)	80 MHz	
RF Bandwidth	25 MHz @	-9 dB Return Loss
Input Impedance	50 Ohms Nominal	
VSWR @ Fc	1.3 :1 Max	
Wavelength	442-633 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

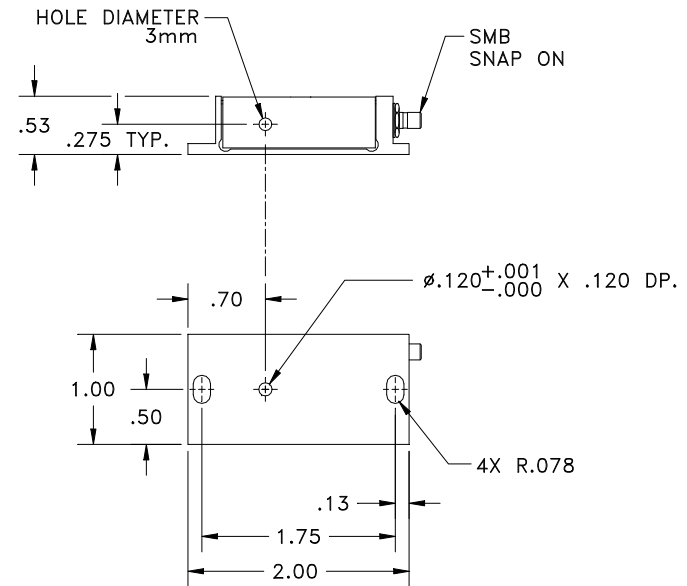
Wavelength (nm)	515	633
Saturation RF Power (W)	0.65	1.0
Bragg Angle (mr)	4.9	6
Beam Separation (mr)	9.8	12

PERFORMANCE VS BEAM DIAMETER

Beam Diameter (μm)	125	200	400
at Wavelength (nm)	633	633	633
Diffraction Efficiency (%)	65	80	90
Rise Time (nsec)	23	34	65
Modulation Bandwidth	20	12	6
Beam Ellipticity	NA	NA	NA

*Active Aperture: Aperture over which performance specifications apply.

Outline Drawing:



Document

10/31/13

Control

Notes:

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TOLERANCES: .XX ± .01 .XXX ± .005	DR	A. Campi 10/7/2013	 DESCRIPTION: AOMO 3080-125		
MATERIAL:	CHK				
FINISH:	APP				
	APP		PART NUMBER: 97-01598-01	REV: D	SHEET 1 OF 1