

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	780-950 nm		
Insertion Loss	3 % 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

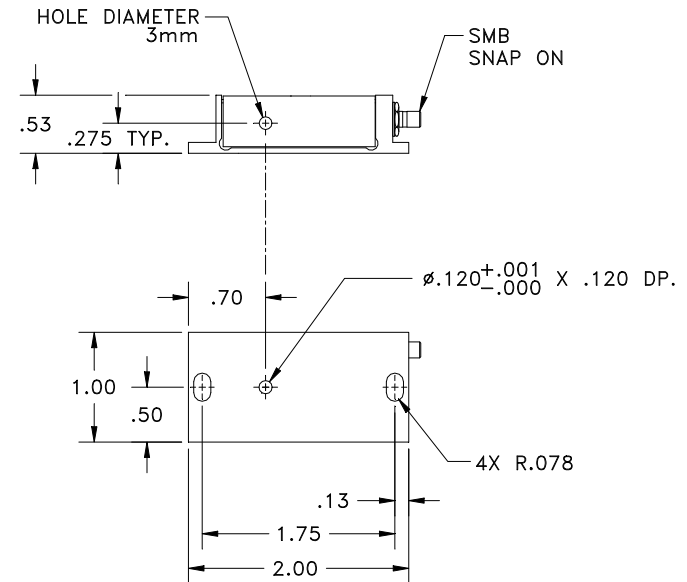
Wavelength (nm)	830
Saturation RF Power (W)	1
Bragg Angle (mr)	7.9
Beam Separation (mr)	15.8

PERFORMANCE VS BEAM DIAMETER

Beam Diameter (μm)	200	250	500
at Wavelength (nm)	830	830	830
Diffraction Efficiency (%)	70	80	85
Rise Time (nsec)	34	41	80
Modulation Bandwidth	15.9	12.65	6.3
	15	10	1

*Active Aperture: Aperture over which performance specifications apply.

Outline Drawing:



Document
10/31/13
Control

Notes:

AR coating performance at 830nm <.5%/surface

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TOLERANCES: .XX ± .01 .XXX ± .005	DR	A. Campi 10/4/2013	 AOMO 3080-122 830nm	
MATERIAL:	CHK			
FINISH:	APP			
	APP		PART NUMBER: 97-01280-01	REV: F
			SHEET 1 OF 1	