

SPECIFICATIONS

AO Medium	TeO ₂	
Acoustic Velocity	4.2 mm/μs	
Active Aperture*	2 mm 'L' X	2.5 mm 'H'
Center Frequency (Fc)	80 MHz	
RF Bandwidth	20 MHz @	-10 dB Return Loss
Input Impedance	50 Ohms Nominal	
VSWR @ Fc	2.0 :1 Max	
Wavelength	1064 nm	
Insertion Loss	2 % Max	
Reflectivity per Surface	.5 % Max	
Anti-Reflection Coating	MIL-C-48497	
Optical Power Density		
Contrast Ratio	1000 :1 Min	
Polarization	Random	

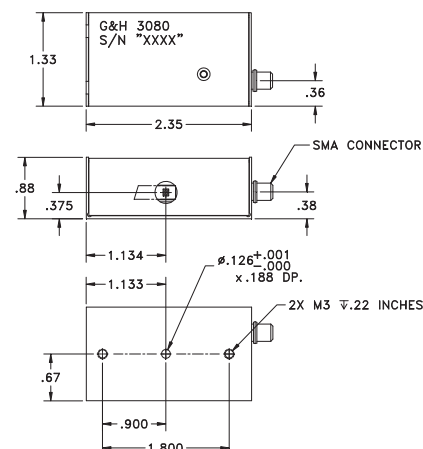
PERFORMANCE VS WAVELENGTH

Wavelength (nm)	1064
Operational RF Power (W)	2.8
Bragg Angle (mr)	10.1
Beam Separation (mr)	20.2

PERFORMANCE VS BEAM DIAMETER

Beam Diameter (μm)	2000
at Wavelength (nm)	1064
Diffraction Efficiency (%)	85
Rise Time (nsec)	318

Outline Drawing:



Document

07/20/16

Control

Notes:

Diffraction efficiency is measured with Horizontal polarization
 Device is conduction cooled thru the mounting surface
 Burnin RF Power 3 Watts
 Index of Refraction for material: Ne=2.347, No=2.204
 Crystal length 30.7mm
 MTBF 3500 hours with a 500W laser and a 1.5mm 1/e² beam diameter. Lifetime limited by bulk optical damage.

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TOLERANCES: .XX ± .01 .XXX ± .005	DR	Geri Scholz 7/14/2016	 AOMO 3080-199 Single channel, 1.064μm		
MATERIAL:	CHK				
FINISH:	APP				
	APP		PART NUMBER: 97-03012-01	REV: 5	SHEET 1 OF 1

*Active Aperture: Aperture over which performance specifications apply.