

SPECIFICATIONS

AO Medium	TeO ₂
Acoustic Velocity	4.2 mm/μs
Active Aperture*	4 mm 'L' X 4 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

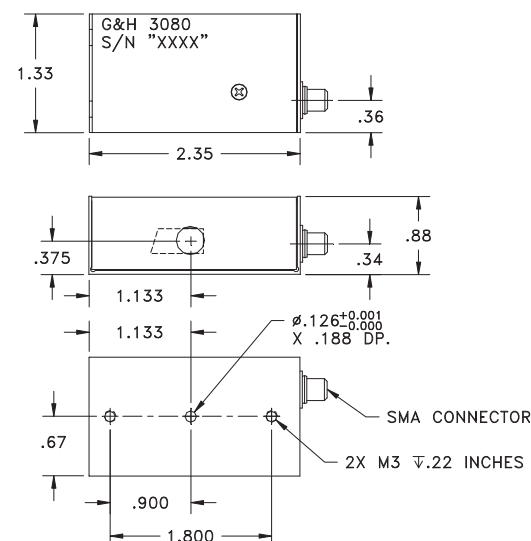
PERFORMANCE VS WAVELENGTH

Wavelength (nm)	1064
Operational RF Power (W)	3.5
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
 Maximum RF power 4W
 Index of Refraction for material: Ne=2.347, No=2.204
 Test Condition - RF Power: 3.5W; spot-size 700μm DE >80%.
 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	Faisal Aziz 7/14/2016	 AOMO 3080-1990 Single channel, 1.064μm
MATERIAL:	CHK		
FINISH:	APP		
	APP		
		PART NUMBER:	97-03052-01
		REV:	G
		SHEET 1 OF 1	

*Active Aperture: Aperture over which performance specifications apply.