

SPECIFICATIONS

AO Medium			TeO ₂	
Acoustic Velocity			4.2 mm/μs	
Active Aperture*	2 mm 'L' X	0.15 mm 'H'		
Center Frequency (Fc)			350 MHz	
RF Bandwidth	150 MHz @	-10 dB Return Loss		
Input Impedance			50 Ohms Nominal	
VSWR @ Fc			1.3 :1 Max	
Wavelength			460-685 nm	
Insertion Loss			4 % Max	
Reflectivity per Surface			1 % Max	
Anti-Reflection Coating			MIL-C-48497	
Optical Power Density			TDB	N/A
Contrast Ratio			1500 :1 Min	
Polarization			90 ° To Mounting Plane	

PERFORMANCE VS WAVELENGTH

Wavelength (nm)	460	532	632	660	685
Operational RF Power (W)	.63	.90	1.00	1.00	1.00
Bragg Angle (mr)	19.2	22.2	26.3	27.5	28.5
Beam Separation (mr)	38.4	44.4	52.6	55	57

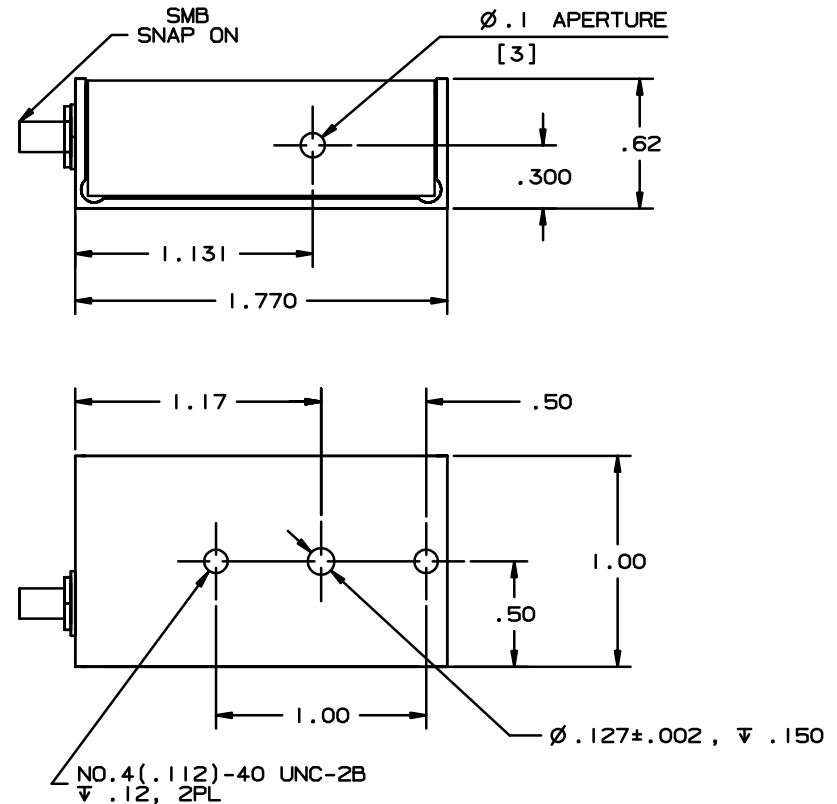
PERFORMANCE VS BEAM DIAMETER

Beam Diameter (μm)	50	50	50	50	50
at Wavelength (nm)	460	532	632	660	685
Diffraction Efficiency (%)	80	80	70	65	60
Rise Time (nsec)	9	9	9	9	9

Document
10/31/13
Control

*Active Aperture: Aperture over which performance specifications apply.

Outline Drawing:



Notes:

Maximum RF Power is 1.00 Watt.
Diffraction Efficiency measured at 1.00 Watt RF power and 633nm

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TOLERANCES: .XX ± .01 .XXX ± .005	DR	Geri Scholz 10/9/2013			
MATERIAL:	CHK				
FINISH:	APP		AOMO 3350-199 460-685nm		
	APP		PART NUMBER: 97-03046-01	REV: E	SHEET 1 OF 1