

SPECIFICATIONS

AO Medium		TeO2
Acoustic Velocity		4.2 mm/μs
Active Aperture*	2.5 mm 'L' X	0.6 mm 'H'
Center Frequency (Fc)		165 MHz
RF Bandwidth	50 MHz @	-10 dB Return Loss
Input Impedance		50 Ohms Nominal
VSWR @ Fc		1.3:1 Max
Wavelength		1300-1550 nm
Insertion Loss		4 % 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		0° or 90 ° To Mounting Plane

PERFORMANCE VS WAVELENGTH

Wavelength (nm)	1064	1300	1550
Saturation RF Power (W)	2.6	3.25	4.5
Bragg Angle (mr)	20.9	25.5	30.5
Beam Separation (mr)	41.8	51	61

PERFORMANCE VS BEAM DIAMETER

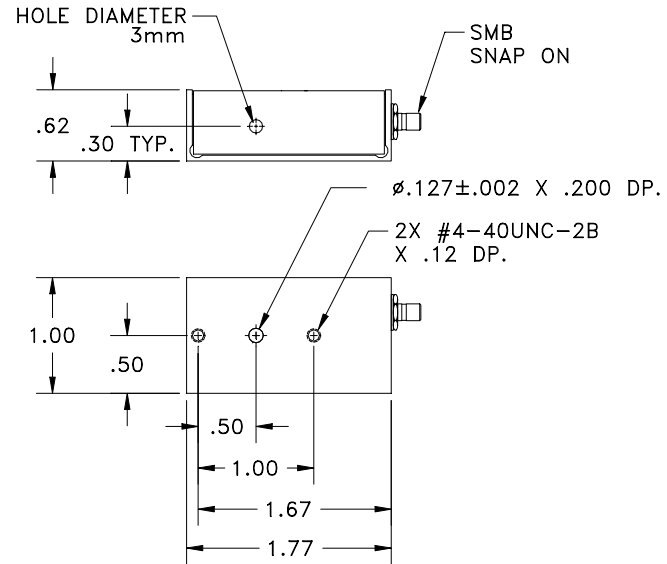
Beam Diameter (μm)	400	380	380
<i>at Wavelength (nm)</i>	1064	1300	1550
Diffraction Efficiency (%)	70	60	50
Rise Time (nsec)	78	78	81
Modulation Bandwidth	7	7	7
	NA	NA	NA

**For Reference
Only**

*Active Aperture: Aperture over which performance specifications apply.

Outline Drawing:

Package AOMO 3165-1



Notes:
 Diffraction Efficiency refers to performance at 2 W RF Power.
 Diffraction Efficiency at Saturation RF power is 65% min.
 Carrier Frequency @ 1300 nm: 178 MHz; @ 1550 nm: 150 MHz.

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TOLERANCES: .XX ± .01 .XXX ± .005	DR	A. Campi 6/17/2002	Crystal Technology, Inc. DESCRIPTION: AOMO 3165-1 1.3-1.55 μM, AEF
MATERIAL:	CHK		
FINISH:	APP		
	APP		PART NUMBER: 97-01287-02
			REV: C
			SHEET 1 OF 1