

SPECIFICATIONS

AO Medium	Crystalline Quartz
Acoustic Velocity	5.74 mm/μs
Active Aperture*	1.2 mm 'H'
Center Frequency (Fc)	80 MHz
RF Bandwidth	10 MHz @ -9 dB Return Loss
Input Impedance	50 Ohms Nominal
VSWR @ Fc	1.2 :1 Max
Wavelength	1064 nm
Insertion Loss	1 % Max
Reflectivity per Surface	0.1 % Max
Anti-Reflection Coating	MIL-C-48497
Optical Power Density	500 MW/cm ²
Contrast Ratio	1000 :1 Min
Polarization	90 ° To Mounting Plane

PERFORMANCE VS WAVELENGTH

Wavelength (nm)	1064
Operational RF Power (W)	10
Bragg Angle (mr)	7.4
Beam Separation (mr)	14.8

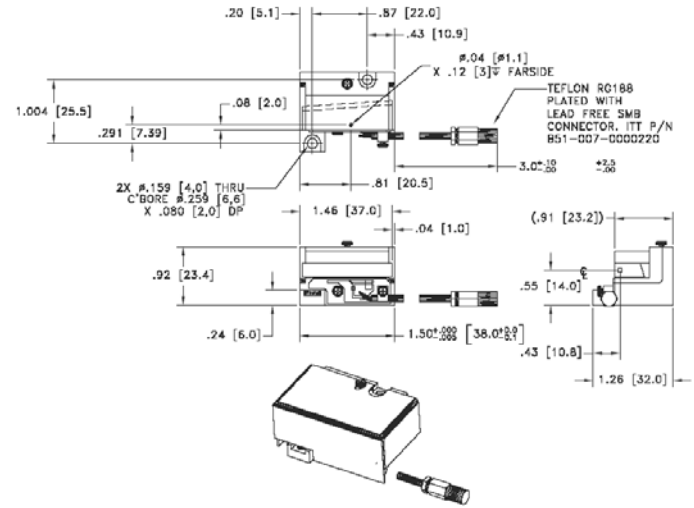
PERFORMANCE VS BEAM DIAMETER

Beam Diameter (μm)	550
<i>at Wavelength (nm)</i>	1064
Diffraction Efficiency (%)	NA
Rise Time (nsec)	115
Modulation Bandwidth	10
Beam Ellipticity	NA

Special Testing	Min	Units	Max
Loss modulation	80	%	

*Active Aperture: Aperture over which performance specifications apply.

Outline Drawing: Package 97-02913-05-15rD



Document
03/17/09
Control

Notes:
 Optical path 36mm; conduction cooled through base.
 Optical window parallelism <1 arc minute.
 ROHS compliant materials.
 Loss modulation 80% @ 10W with 550um beam waist and a 700um beam height.
 Each device to be shipped with cover which is not show in outline.

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TOLERANCES: .XX ± .01 .XXX ± .005	DR	Gerri Scholz 2/27/2009	Crystal Technology, Inc.
MATERIAL:	CHK		DESCRIPTION: AOQS 5080-290 35mm, 1064nm
FINISH:	APP		PART NUMBER: 97-02913-05
	APP		REV: F
			SHEET 1 OF 1