

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
at Wavelength (nm)	1064
Diffraction Efficiency (%)	NA
Rise Time (nsec)	115
Modulation Bandwidth	10
Beam Ellipticity	NA

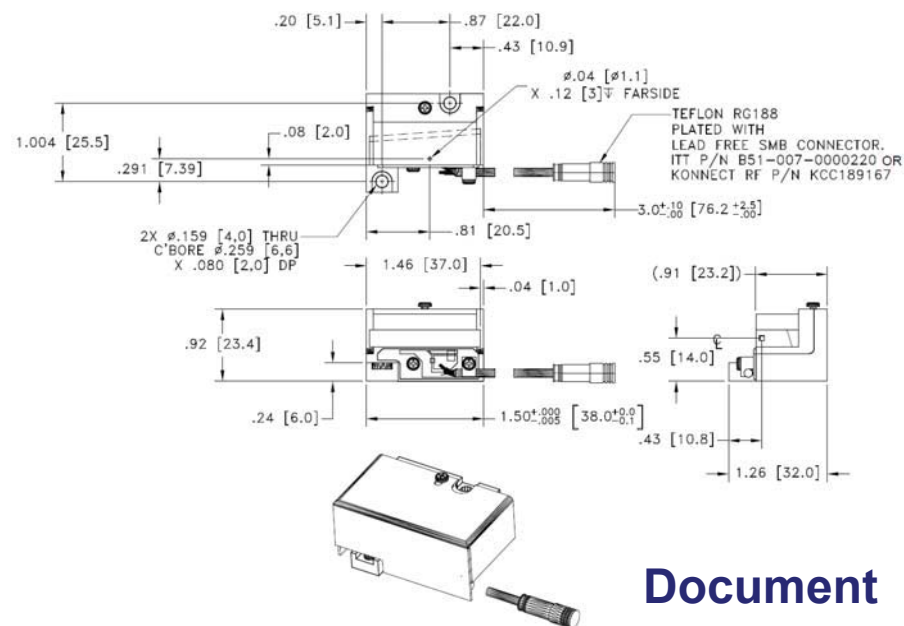
Special Testing

	Min	Units	Max
Loss modulation	80	%	

*Active Aperture: Aperture over which performance specifications apply.

Outline Drawing:

Package 97-02913-05-15rE



Document

02/12/19

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	Geri Scholz 2/6/2019	Gooch & Housego	
MATERIAL:	CHK	RoHS	DESCRIPTION: AOQS 5080-290	
FINISH:	APP	Compliant	35mm, 1064nm	
	APP		PART NUMBER: 97-02913-05	REV: G SHEET 1 OF 1