

SPECIFICATIONS

AO Medium	Crystalline Quartz
Acoustic Velocity	5.74 mm/μs
Active Aperture*	2 mm 'H'
Center Frequency (Fc)	80 MHz
RF Bandwidth	2 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)	25
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)	50
Modulation Bandwidth	NA
Beam Ellipticity	NA

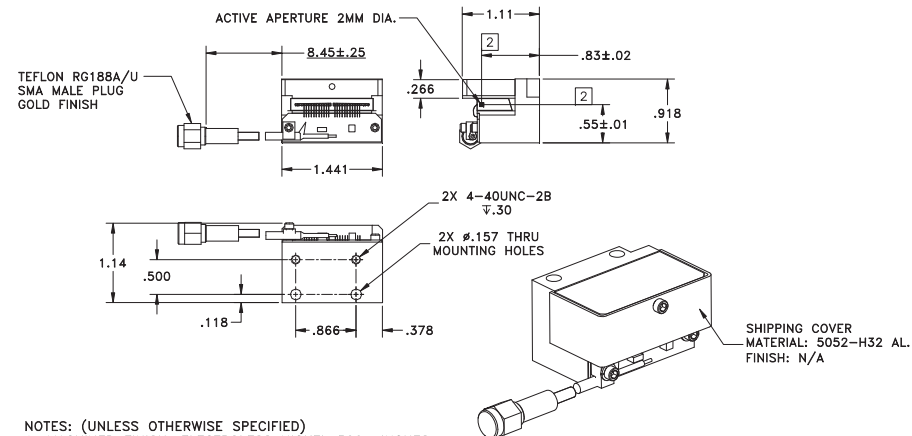
Special Testing

	Min	Units	Max
Loss modulation	85	%	

*Active Aperture: Aperture over which performance specifications apply.

Outline Drawing:

Package 97-03306-01-15r1



NOTES: (UNLESS OTHERWISE SPECIFIED)
1. MACHINED FINISH: ELECTROLESS NICKEL 500μ INCHES
PER AMS-2404C, MUST BE RoHS COMPLIANT.
2. CENTER LINE OF ACTIVE APERTURE.

Document

06/16/15

Control

Notes:

Optical path 30mm; conduction cooled through base.
Optical window parallelism <1 arc minute.
MECHANICAL OUTLINE PER 97-03306-01-15
Optical power density for 20nsec pulses

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TOLERANCES: .XX ± .01 .XXX ± .005	DR	Tom Ng 6/12/2015	Gooch & Housego		
MATERIAL:	CHK	RoHS	DESCRIPTION: AOQS 5080		
FINISH:	APP	Compliant	30mm, SMA 8.45", ROHS		
	APP		PART NUMBER: 97-03306-01	REV: 1	SHEET 1 OF 1