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

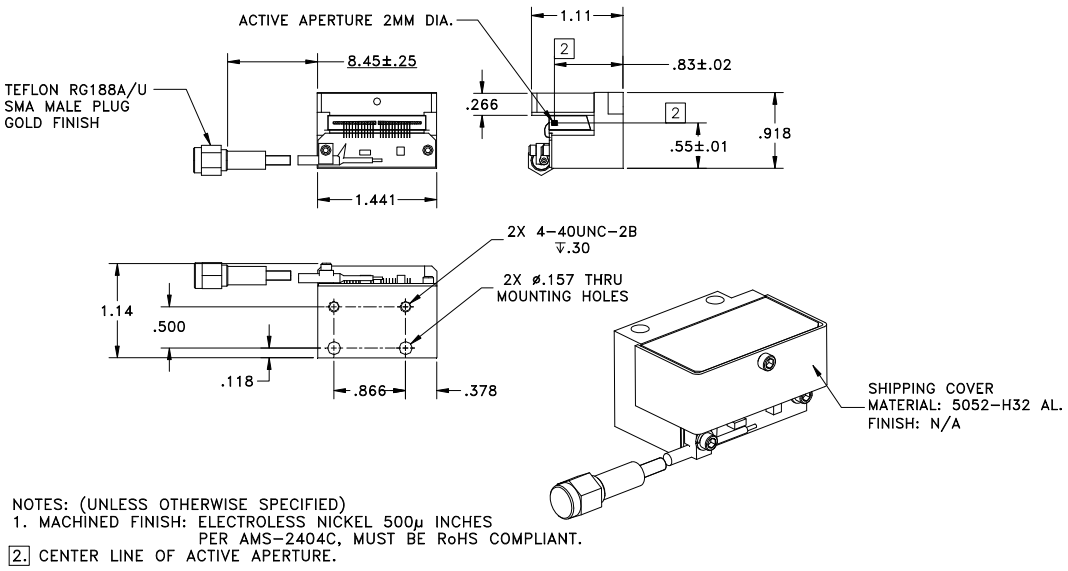
PERFORMANCE VS BEAM DIAMETER

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

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