

SPECIFICATIONS

AO Medium	Crystalline Quartz
Acoustic Velocity	5.74 mm/μs
Active Aperture*	1.5 mm 'H'
Center Frequency (Fc)	40.68 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)	20
Bragg Angle (mr)	3.8
Beam Separation (mr)	7.6

PERFORMANCE VS BEAM DIAMETER

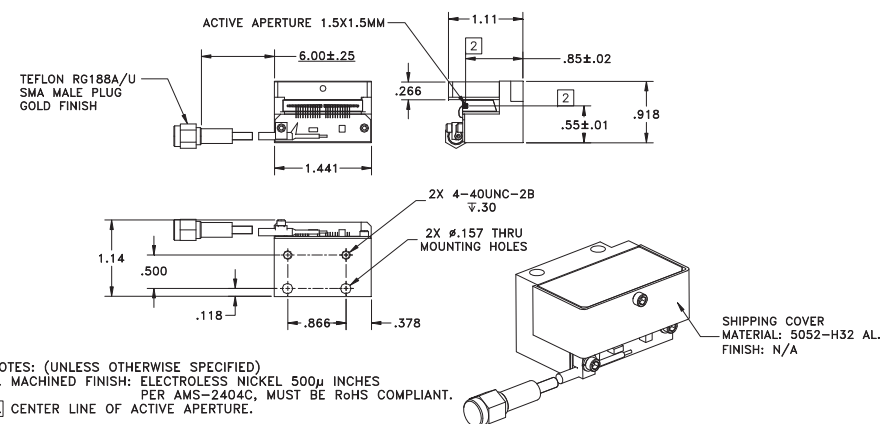
Beam Diameter (μm)	375
at Wavelength (nm)	1064
	NA
Rise Time (nsec)	50
Modulation Bandwidth	NA
Beam Ellipticity	NA

Special Testing	Min	Units	Max
Loss modulation	90	%	
Maximum RF power			20W

*Active Aperture: Aperture over which performance specifications apply.

Outline Drawing:

Package 97-03279-01-15rA



Document

08/07/15

Control

Notes:

Optical path 30mm; conduction cooled through base.
Optical window parallelism <1 arc minute.
MECHANICAL OUTLINE PER 97-03279-01-15
Optical power density for 20nsec pulses

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TOLERANCES: .XX ± .01 .XXX ± .005	DR	Tom Ng 8/6/2015	Gooch & Housego	
MATERIAL:	CHK	RoHS	DESCRIPTION: AOQS 5041-290	
FINISH:	APP	Compliant	30mm, SMA 6", ROHS	
	APP		PART NUMBER: 97-03279-01	REV: A SHEET 1 OF 1