

SPECIFICATIONS

AO Medium	Crystalline Quartz
Acoustic Velocity	5.74 mm/μs
Active Aperture*	1 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)	3.5
Bragg Angle (mr)	7.4
Beam Separation (mr)	14.8

PERFORMANCE VS BEAM DIAMETER

Beam Diameter (μm)	550
at Wavelength (nm)	1064
	NA
	50
Modulation Bandwidth	NA
Beam Ellipticity	NA

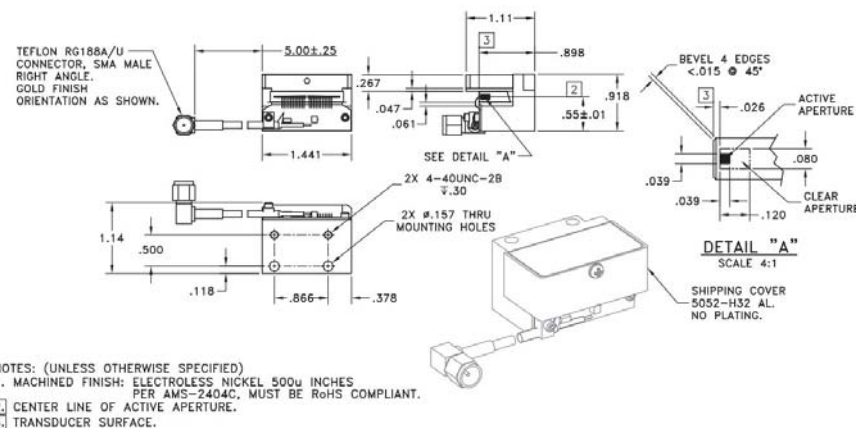
Special Testing

	Min	Units	Max
Loss modulation	50	%	

*Active Aperture: Aperture over which performance specifications apply.

Outline Drawing:

Package 97-03278-03



Notes:

Optical path 30mm; conduction cooled through base.
 Maximum RF 10W
 Optical window parallelism <1 arc minute.
 MECHANICAL OUTLINE PER 97-03278-03-15
 Optical power density for 20nsec pulses
 Clear aperture surface quality: 10-5, 20x inspection

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TOLERANCES: .XX ± .01 .XXX ± .005	DR	Tom Ng 9/27/2024	DESCRIPTION: AOQS 5080-2910 30mm, RT ANGLE SMA, ROHS
MATERIAL:	CHK		
FINISH:	APP		
	APP		
		PART NUMBER: 97-03278-03	REV: 1
			SHEET 1 OF 1

Document

10/10/2024

Control