

SPECIFICATIONS

AO Medium	Crystalline Quartz
Acoustic Velocity	6.32 mm/ μ s
Active Aperture*	0.24 mm 'L' X 0.24 mm 'H'
Center Frequency (Fc)	300 MHz
Tuning Bandwidth	60 MHz
Input Impedance	50 Ohms Nominal
VSWR @ Fc	1.6 :1 Max
Wavelength	266 nm
Insertion Loss	2 % Max
Anti-Reflection Coating	MIL-C -48497
Optical Damage Threshold	> 200 W/mm ²
Contrast Ratio	100 :1 Min
Polarization	90 ° To Acoustic Wave

PERFORMANCE VS WAVELENGTH

Wavelength (nm)	266
Operational RF Power (W)	2
Bragg Angle (mr)	6.3
Beam Separation (mr)	12.6

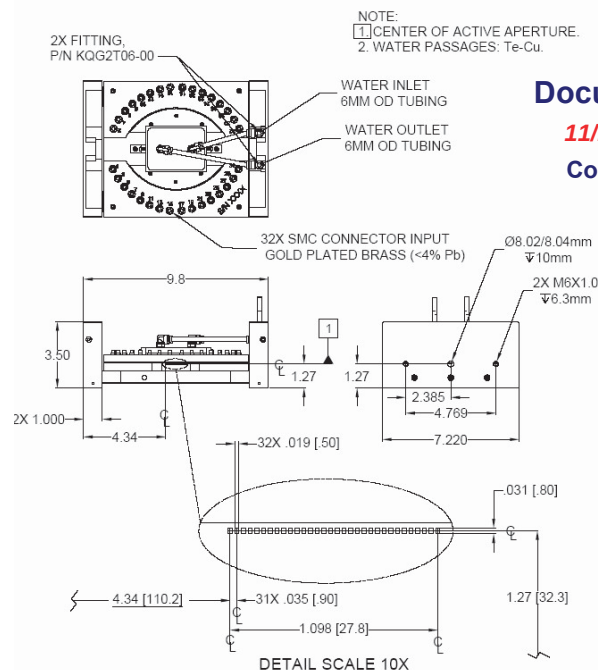
PERFORMANCE VS BEAM DIAMETER

Beam Diameter (μm)	110
at Wavelength (nm)	266
Diffraction Efficiency (%) min	85
Rise Time (nsec)	12

*Active Aperture: Aperture over which performance specifications apply.

Outline Drawing:

Package 97-03449-01-15r1



Document

11/14/23

Control

Number of Channels: 32; Channel Pitch: 0.90mm
 Contrast Ratio is measured at 3.0 watts, MAXIMUM DRIVE POWER into device with all channels 'on' is 100watts (3w per channel) with water cooling
 Device is water cooled
 Channel Crosstalk: < -25dB , one channel 'off' all others 'on'
 Connectors: SMC Blk Hd mount straight male jack
 Coolant flow rate: 0.5gpm @ 25 degree C.

THIS DOCUMENT IS THE PROPERTY OF CRYSTAL TECHNOLOGY, INC. IT IS NOT TO BE REPRODUCED OR DISCLOSED IN WHOLE OR IN PART OTHER THAN BY EMPLOYEES CRYSTAL TECHNOLOGY AND ITS CONTRACTED REPRESENTATIVES AND DISTRIBUTORS. ANY EXCEPTION REQUIRES THE WRITTEN CONSENT OF AN AUTHORIZED REPRESENTATIVE OF CRYSTAL TECHNOLOGY.

TOLERANCES: XX $\pm$.01 .XXX $\pm$.005	DR	10/4/2022	Gooch & Housego		
MATERIAL:	CHK		DESCRIPTION: AOMC 300/32		
FINISH:	APP		"Z" Axis Quartz, 266nm		
	APP		PART NUMBER: 97-03482-01	REV: 1	SHEET 1 OF 1