

SPECIFICATIONS

AO Medium	Crystalline Quartz
Acoustic Velocity	6.32 mm/ μ s
Active Aperture*	0.5 mm 'L' X 0.45 mm 'H'
Center Frequency (Fc)	250 MHz
Tuning Bandwidth	30 MHz
Input Impedance	50 Ohms Nominal
VSWR @ Fc	1.6 :1 Max
Wavelength	400 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

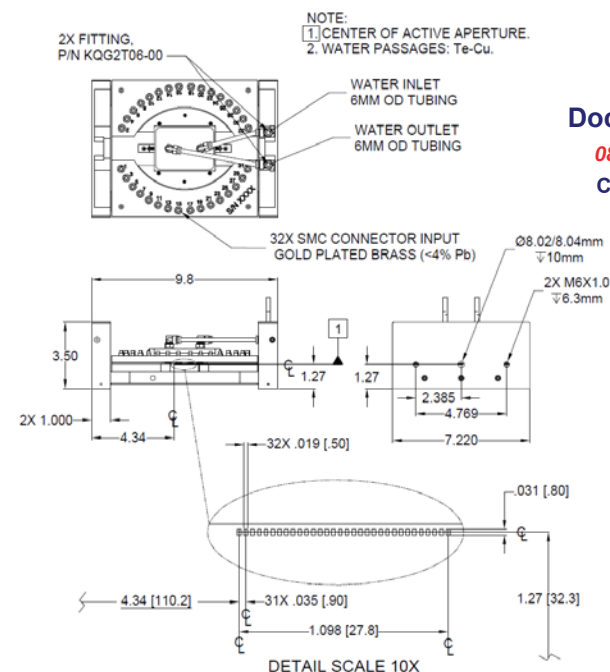
Wavelength (nm)	400
Operational RF Power (W)	3.0
Bragg Angle (mr)	7.9
Beam Separation (mr)	15.8

PERFORMANCE VS BEAM DIAMETER

Beam Diameter (μm)	300
at Wavelength (nm)	400
Diffraction Efficiency (%) min	75
Rise Time (nsec)	30

*Active Aperture: Aperture over which performance specifications apply.

Outline Drawing:



Document
08/13/20
Control

Number of Channels: 32; Channel Pitch: 0.90mm
 MAXIMUM DRIVE POWER into device
 with all channels 'on' is 100 watts (3w per channel) with water cooling
 Device is water cooled
 Channel Crosstalk: < -25dB , one channel 'off' all others 'on'
 Acousto-Optic Operation: First Order
 Connectors: SMC Blk Hd mount straight male jack.
 Coolant flow rate: 1-2L/min. @ 18-25 degree C.
 Crystal optical path 29mm

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TOLERANCES: XX $\pm$.01 .XXX $\pm$.005	DR	Geri Scholz 8/10/2020	Gooch & Housego		
MATERIAL:	CHK		DESCRIPTION: AOMC 250/32 "Z" Axis Quartz, 400nm		
FINISH: 	APP		PART NUMBER: 97-03440-01	REV: 1	SHEET 1 OF 1
	APP				