

SPECIFICATIONS

AO Medium	Crystalline Quartz	
Acoustic Velocity	6.32 mm/μs	
Active Aperture*	0.24 mm 'L' X	0.24 mm 'H'
Center Frequency (Fc)	220 MHz	
Tuning Bandwidth	60 MHz	
Input Impedance	50 Ohms Nominal	
VSWR @ Fc	1.6 :1 Max	
Wavelength	405 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

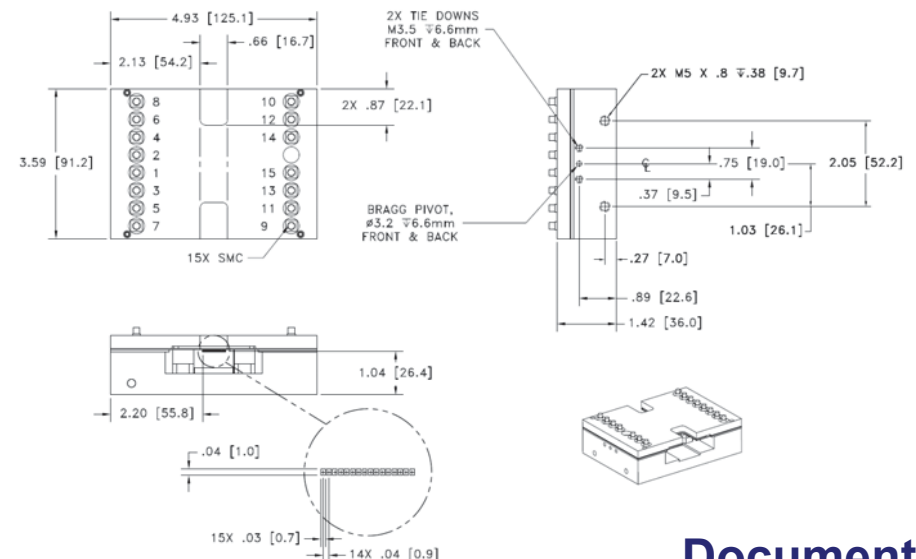
Wavelength (nm)	405
Operational RF Power (W)	3.0
Bragg Angle (mr)	7
Beam Separation (mr)	14

PERFORMANCE VS BEAM DIAMETER

Beam Diameter (μm)	110
at Wavelength (nm)	405
Diffraction Efficiency (%) min	70
Rise Time (nsec)	12

*Active Aperture: Aperture over which performance specifications apply.

Outline Drawing:



Document
11/15/19
Control

Number of Channels: 15; Channel Pitch: 0.90mm.
Contrast Ratio is measured at 2.0 watts, MAXIMUM DRIVE POWER into device with all channels 'on' is 45 watts (3.0w per channel) with water cooling.
Device is water cooled.
Channel Crosstalk: <-25dB, one channel 'off' all others 'on'.
Acousto-Optic Operation: First Order.
Distance to Output face of crystal to the edge of the housing will be minimized.
Connectors: SMC Blk Hd mount straight male jack.
Coolant flow rate: 0.1gpm @ 25 degree C.

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

TOLERANCES: XX ± .01 .XXX ± .005	DR	Gerl Scholz 11/15/2019	Gooch & Housego		
MATERIAL:	CHK		DESCRIPTION: AOMC 220/15 "Z" Axis Quartz		
FINISH:	APP		PART NUMBER: 97-03426-01		
	APP		REV: 1	SHEET 1 OF 1	