

SPECIFICATIONS

AO Medium	Crystalline Quartz		
Acoustic Velocity	5.74 mm/μs		
Active Aperture*	0.5 mm 'L' X	0.24 mm 'H'	
Center Frequency (Fc)	220 MHz		
RF Bandwidth	60 MHz		
Input Impedance	50 Ohms Nominal		
VSWR @ Fc	1.5 :1 Max		
Wavelength	351-365 nm		
Insertion Loss	3 % Max		
Anti-Reflection Coating	MIL-C -48497		
Optical Damage Threshold	200 MW/cm ²		
Contrast Ratio	100 :1 Min		
Polarization	Perpendicular ° To Acoustic Wave		

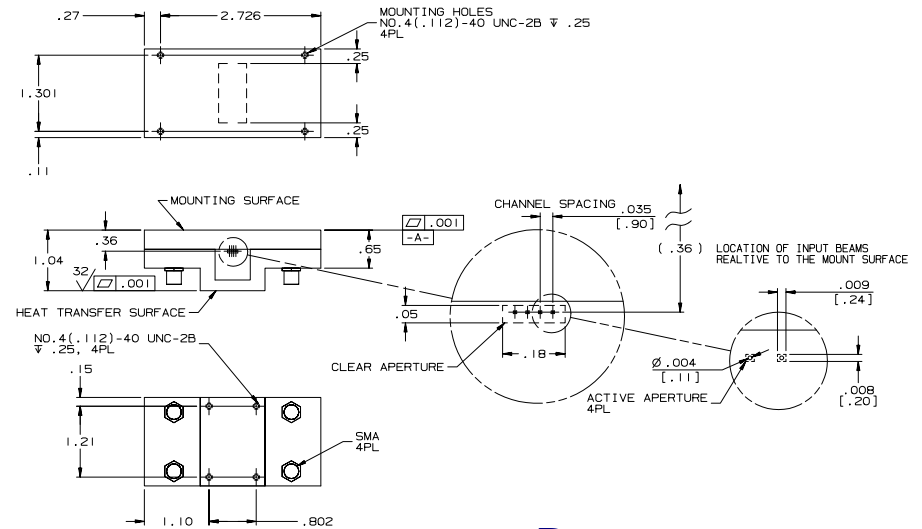
PERFORMANCE VS WAVELENGTH

Wavelength (nm)	351	365
Operational RF Power (W)	2	2
Bragg Angle (mr)	6.7	7
Beam Separation (mr)	13.4	14

PERFORMANCE VS BEAM DIAMETER

Beam Diameter (μm)	110	110
at Wavelength (nm)	351	365
Diffraction Efficiency (%) min	83	83
Rise Time (nsec)	16	16

Outline Drawing:



Document

02/28/14

Control

Number of Channels: 4; Channel Pitch: 0.90mm
 Contrast Ratio is measured at 2. watts, MAXIMUM DRIVE POWER into device with all channels 'on' is 8 watts with proper heat sink
 Device is conduction cooled thru the mounting surface
 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.
 Mounting surface flatness is .001
 Diffraction efficiency measured at 488nm, 2.5 watts 110 micro beam.

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TOLERANCES: .XX ± .01 .XXX ± .005	DR	G. SCHOLZ 2/25/2014			
MATERIAL:	CHK		DESCRIPTION: AOMC 220-4		
FINISH:	APP		.365-351u Custom Package		
	APP		PART NUMBER: 97-02411-01	REV: B	SHEET 1 OF 1

Special Testing	Min	Units	Max
Diffraction Efficiency, (see notes)	66	%	
Crosstalk	25	dB	

*Active Aperture: Aperture over which performance specifications apply.