

SPECIFICATIONS

AO Medium	Crystalline Quartz	
Acoustic Velocity	5.74 mm/μs	
Active Aperture*	0.5 mm 'L' X	0.2 mm 'H'
Center Frequency (Fc)	300 MHz	
RF Bandwidth	100 MHz	
Input Impedance	50 Ohms Nominal	
VSWR @ Fc	1.5 :1 Max	
Wavelength	413 nm	
Insertion Loss	3 % Max	
Anti-Reflection Coating	MIL-C -48497	
Optical Damage Threshold	200 MW/cm ²	
Contrast Ratio	1000 :1 Min	
Polarization	Perpendicular ° To Acoustic Wave	

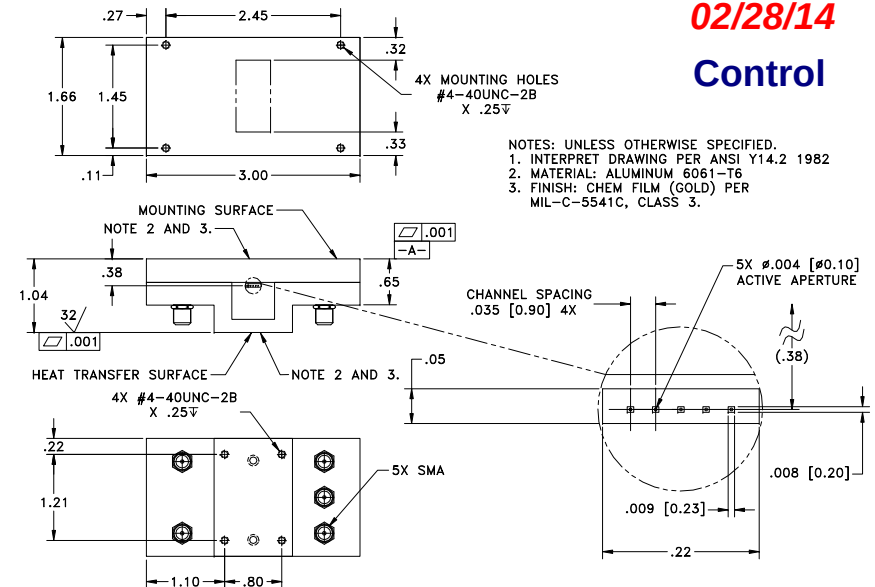
PERFORMANCE VS WAVELENGTH

Wavelength (nm)	413
Operational RF Power (W)	2
Bragg Angle (mr)	10.8
Beam Separation (mr)	21.6

PERFORMANCE VS BEAM DIAMETER

Beam Diameter (μm)	65
<i>at Wavelength (nm)</i>	413
Diffraction Efficiency (%) min	50
Rise Time (nsec)	10

Outline Drawing:



Number of Channels: 5; Channel Pitch: 0.90mm
 Contrast Ratio is measured at 2. watts, MAXIMUM DRIVE POWER into device
 with all channels 'on' is 10 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.
 RF Bandwidth 100MHz @ -8.5dB Return Loss.

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TOLERANCES: .XX ± .01 .XXX ± .005 MATERIAL: FINISH:	DR	Faisal Aziz 2/25/2014			
	CHK		DESCRIPTION: AOMC MC300-5 .413u Custom Package		
	APP				
	APP		PART NUMBER: 97-02889-01	REV: C	SHEET 1 OF 1

*Active Aperture: Aperture over which performance specifications apply.