

SPECIFICATIONS

AO Medium		Crystalline Quartz
Acoustic Velocity		5.74 mm/μs
Active Aperture*	.5 mm 'L' X .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

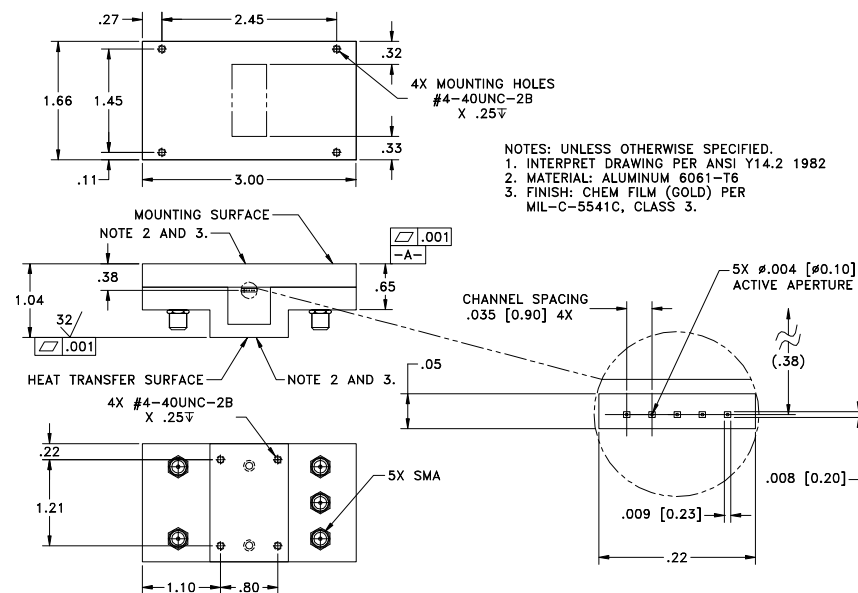
Special Testing

	Min	Units	Max
Crosstalk	25	dB	

*Active Aperture: Aperture over which performance specifications apply.

Outline Drawing:

Package MC330-5



- NOTES: UNLESS OTHERWISE SPECIFIED.
 1. INTERPRET DRAWING PER ANSI Y14.2 1982
 2. MATERIAL: ALUMINUM 6061-T6
 3. FINISH: CHEM FILM (GOLD) PER MIL-C-5541C, CLASS 3.

For Reference Only



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TOLERANCES: .XX ± .01 .XXX ± .005	DR	Tom Ng 4/21/2005	Crystal Technology, Inc.	
MATERIAL:	CHK		DESCRIPTION: AOMC MC300-5	
FINISH:	APP		PART NUMBER:	REV:
	APP			SHEET 1 OF 1