

SPECIFICATIONS

AO Medium	Crystalline Quartz	
Acoustic Velocity	5.74 mm/ μ s	
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	413 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)	413
Operational RF Power (W)	2.5
Bragg Angle (mr)	7.9
Beam Separation (mr)	15.8

PERFORMANCE VS BEAM DIAMETER

Beam Diameter (μm)	110
<i>at Wavelength (nm)</i>	413
Diffraction Efficiency (%) min	75
Rise Time (nsec)	16

Special Testing

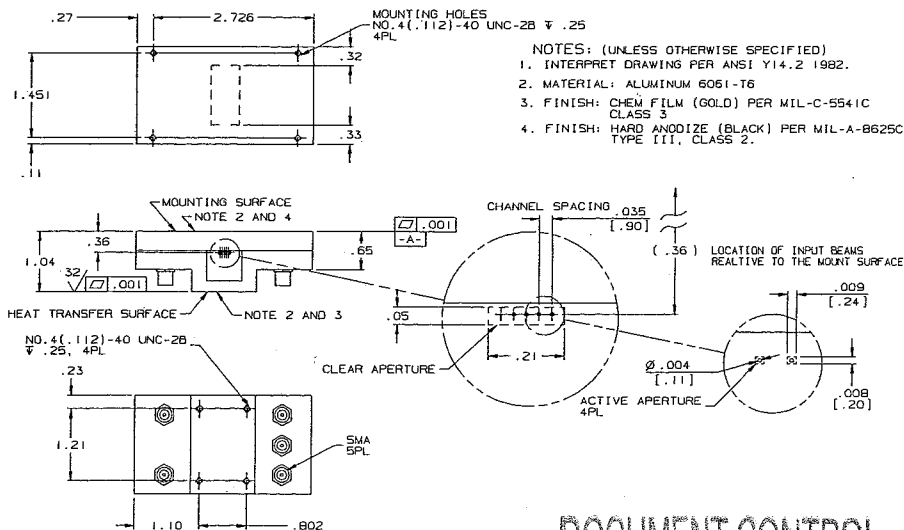
Min Units Max

Crosstalk	20	dB
-----------	----	----

*Active Aperture: Aperture over which performance specifications apply.

Outline Drawing:

Package 97-02411-02



DOCUMENT CONTROL

JUL 1 9 2006

Number of Channels: 5; Channel Pitch: 0.90mm
 Contrast Ratio is measured at 2.5 watts, MAXIMUM DRIVE POWER into device with all channels 'on' is 12.5 watts with proper heat sink
 Device is conduction cooled thru the mounting surface
 Channel Crosstalk: < -20dB , 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

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

TOLERANCES: .XX ± .01 .XXX ± .005	DR	A. Campi 10/25/99	Crystal Technology, Inc.		
MATERIAL:	CHK				
FINISH:	APP	DK 10/25/99	413um		PART NUMBER: 97-02411-03
	APP	R.D. 10/26/99	REV: A	SHEET 1 OF 1	