

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	413 nm
Insertion Loss	3 % Max
Anti-Reflection Coating	MIL-C -48497
Optical Damage Threshold	1 MW/cm ²
Contrast Ratio	100 :1 Min
Polarization	Perpendicular ° To Acoustic Wave

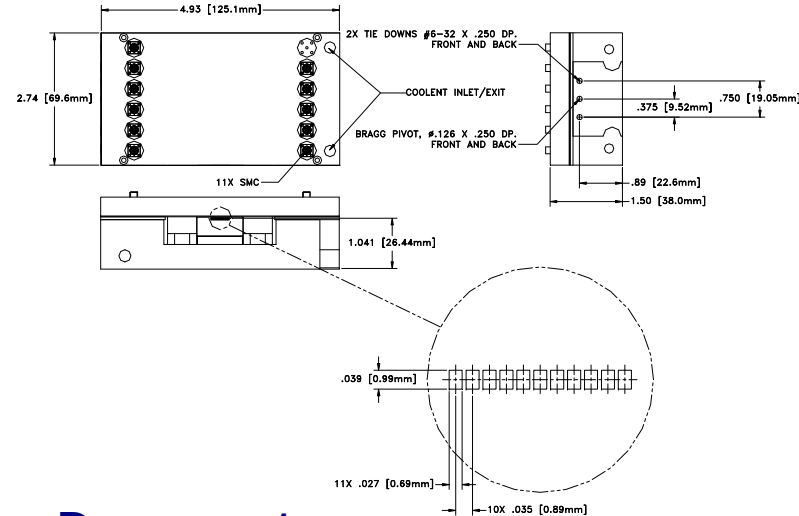
PERFORMANCE VS WAVELENGTH

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
at Wavelength (nm)	413
Diffraction Efficiency (%) min	75
Rise Time (nsec)	12.5

Outline Drawing:



Document

02/28/14

Control

Number of Channels: 11; Channel Pitch: 0.90mm
 Contrast Ratio is measured at 2.5 watts, MAXIMUM DRIVE POWER into device with all channels 'on' is 33 watts (3w 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	Tom Ng 2/25/2014			
MATERIAL:	CHK		DESCRIPTION: AOMC MC220-11 .413u Custom Package		
FINISH:	APP				
	APP		PART NUMBER: 97-02898-02	REV: B	SHEET 1 OF 1

*Active Aperture: Aperture over which performance specifications apply.