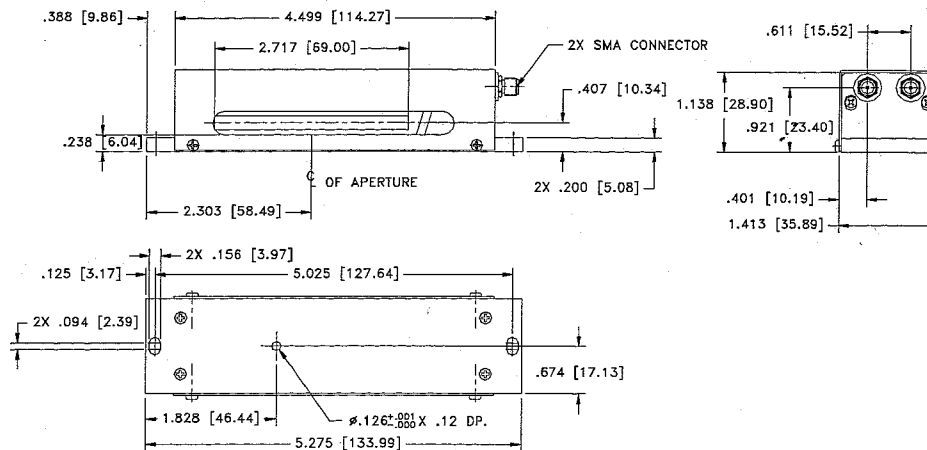


**SPECIFICATIONS**

AO Medium	Crystal Quartz
Acoustic Mode	Longitudinal
Acoustic Velocity	6.32 mm/μs
Wavelength	266 nm
Input Polarization	90° to Mounting Plane
Output Polarization	90° to Mounting Plane
Insertion Loss	<2%
Center Frequency (Fc)	210 MHz
RF Bandwidth	130 MHz
RF Power	5.0W nominal
Active Aperture	1mm 'H' x 69mm 'L'
Average Diffraction Efficiency	>80%, 83% TYP.
Flatness Across Bandwidth	40%
Min Diffraction Efficiency	>58%
Peak Valley at 633 nm	.100
RMS at 633 nm	.05
VSWR	<1.7:1
Scan Angle	N/A
Time Bandwidth	N/A

**OUTLINE DRAWING**



Notes:

1. Delay/splitter box is included but not shown.
2. (DEmax-DEmin)/DEave.
3. RF Burn In: 3W/channel, 48hrs

DOCUMENT CONTROL

OCT 06 2006

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 OF CRYSTAL TECHNOLOGY AND ITS CONTRACTED REPRESENTATIVES AND DISTRIBUTERS. ANY EXCEPTION REQUIRES THE WRITTEN CONSENT OF AN AUTHORIZED REPRESENTATIVE OF CRYSTAL TECHNOLOGY.

TOLERANCES: XX ± .01 XXX ± .005	DR	T. Ng 9/28/2006	Crystal Technology, Inc.
MATERIAL:	CHK: R.D. 9/20/06	DESCRIPTION: AODF 4200-6, 266nm Two Element Phased Array	
FINISH:	APP	PART NUMBER: 97-02890-02	REV: A
	APP		SHEET 1 OF 1



# Gooch & Housego

## DEVICE SPECIFICATIONS

### MODEL NUMBER:

**45125-2/10-.355-I**

**(PROTECTED UNDER US PATENT NUMBER 5,268,911)**

### DOCUMENT NUMBER: 56A12372C

<u>PARAMETER</u>	<u>SPECIFICATION</u>
Interactive Material	Crystal Quartz
Acoustic Mode	Longitudinal
Operating Wavelength	355 nm
Window Configuration	AR Coated
Static Transmission	≥97 %
Operating Frequency	100 to 150 MHz.
Intensity Variation	≥ 1 dB
Diffraction Efficiency	≥75 %, midband with linear polarization perpendicular to acoustic propagation
Acoustic Aperture Size	2 X 10 mm
Process Time	1.25 μs with 7.2 mm beam size in acoustic direction
Resolution (T.BW product)	60 spots
Δ Deflection Angle	3 mrad
Deflection Angle	7.7 mrad @ 125 MHz
RF Power Level	≤4 Watts
Impedance	50 Ohms
VSWR	≤1.5:1 across bandwidth
Package:	53B2544

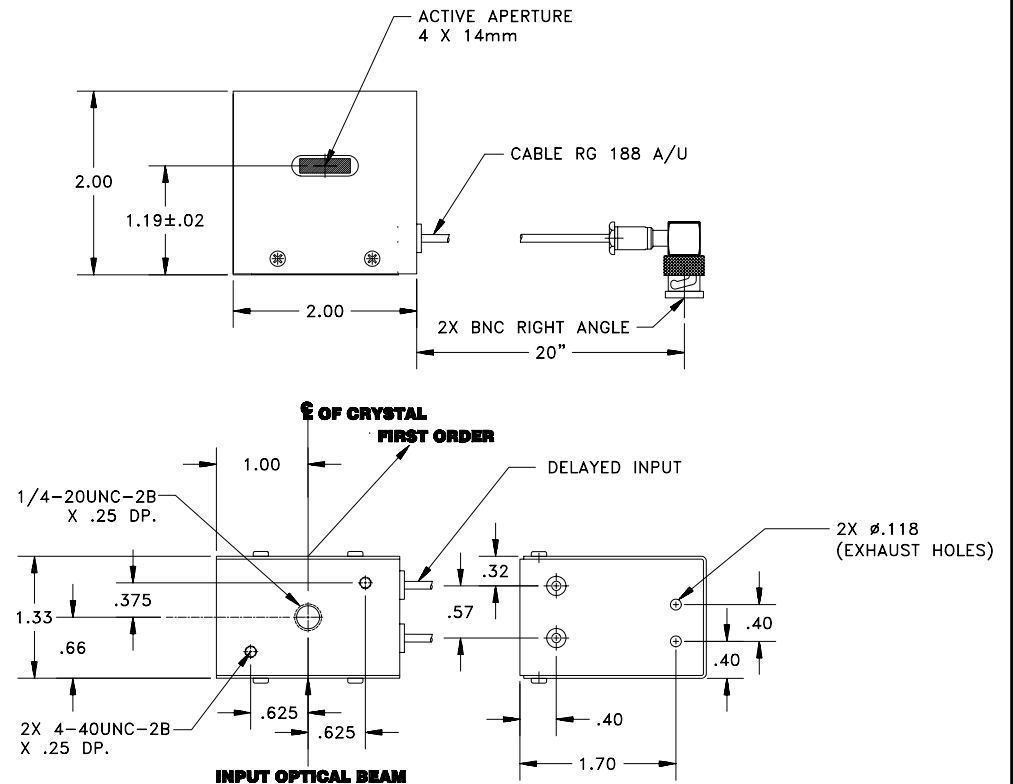
**For More Information, Contact: [sales@goochandhousego.com](mailto:sales@goochandhousego.com) [www.goochandhousego.com](http://www.goochandhousego.com)**

As part of our policy of continuous product improvement we reserve the right to change specifications at any time.

## SPECIFICATIONS

AO Medium	TeO <sub>2</sub>
Acoustic Mode	Shear, On Axis
Acoustic Velocity	0.617 mm/μs
Wavelength	364 nm
Input Polarization	Elliptical
Output Polarization	Elliptical
Insertion Loss	10%
Center Frequency (Fc)	100 MHz
RF Bandwidth	50 MHz
RF Power	< 1.0 Watt
Active Aperture	4 mm 'H' X 14 mm 'L'
Average Diffraction Efficiency	> 75%
Flatness Across Bandwidth	10%
Min Diffraction Efficiency	> 70%
Peak Valley at 633 nm(No RF Power )	<0.125
RMS at 633 nm	N/A
VSWR	< 2.0 : 1
Scan Angle	N/A
Time Bandwidth	N/A

## OUTLINE DRAWING



### Notes:

1. 2 Element Phased Array
2. Input impedance is 50 Ohms.
3. A delay box, p/n: 97-02010-01, is connected between the RF output of the driver and the two inputs of the deflector.

**For Reference Only**

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 OF CRYSTAL TECHNOLOGY AND ITS CONTRACTED REPRESENTATIVES AND DISTRIBUTERS. ANY EXCEPTION REQUIRES THE WRITTEN CONSENT OF AN AUTHORIZED REPRESENTATIVE OF CRYSTAL TECHNOLOGY.

TOLERANCES: .XX .XXX	DR	Geri Scholz 12/9/2003	<b>Crystal Technology, Inc.</b>
MATERIAL:	CHK		
FINISH:	APP		PART NUMBER:
	APP		REV:
			SHEET 1 OF 1