

AO DEFLECTOR DATA SHEET

Model AODF: 4120-3

Part Number: 97-02799-02 Rev: B Work Order: 833102

Serial Number: 162045 Cell I.D#: 1017B1A

Test Date 10/25/2018 Tested By: KQ

Measured Performance at 488 nm Wavelength
RF Power: 0.330 W Burn-In Info.

Test	Min Spec.	Meas.	Max Spec.
Insertion Loss (%)		2.91	3.00
DE Ave. (%)		83.1	
Min D.E.(%)	75.00	77.00	
Flatness(%)		13.00	
Peak Valley(wave)		0.57	$\lambda/4$
R.M.S(Wave)			
Astigmatism(Mag.)	BD 0deg	BD 45 deg	

DEVICE CHARACTERISTICS:

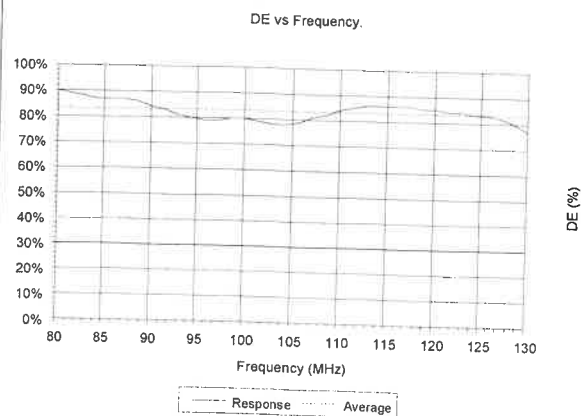
Input Polarization: Horizontal
Output Polarization: Vertical
Center Frequency: 120 MHz
Bandwidth: 50 MHz

CRYSTAL MOUNTING:

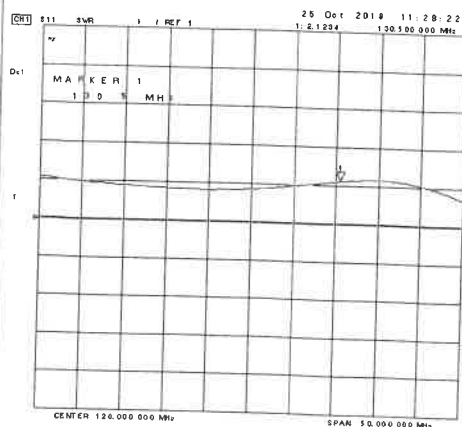
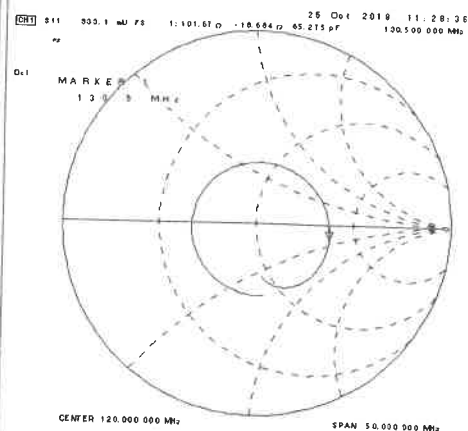
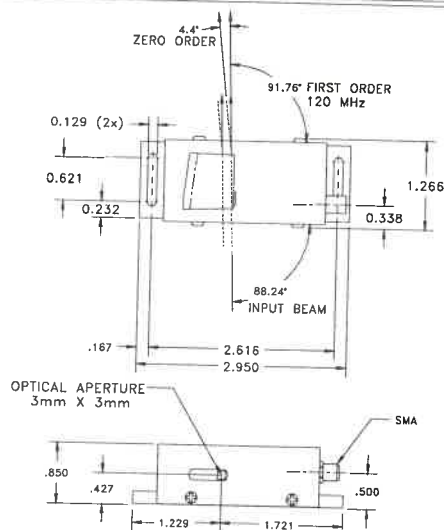
Output Face:
Parallelism:

Test Data Curves

Location -1 order @ center



Package Drawing



Gooch & Housego

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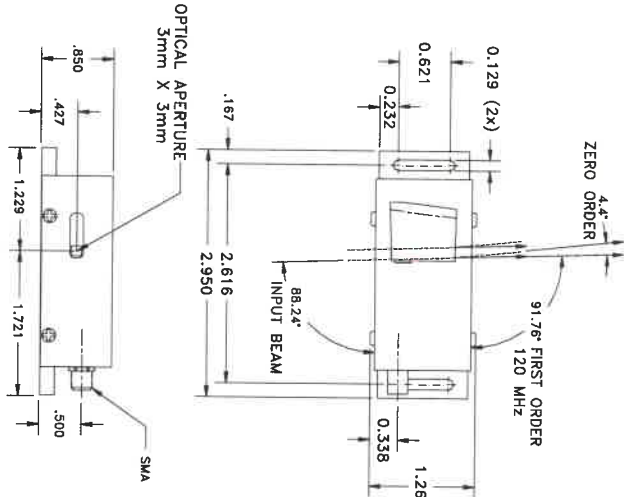
SPECIFICATIONS

AO Medium	TeO2
Acoustic Mode	Shear, off axis
Acoustic Velocity	.65 mm/μs
Wavelength	413 nm
Input Polarization	Horizontal
Output Polarization	Vertical
Insertion Loss	3%
Center Frequency (Fc)	120 MHz
RF Bandwidth	50 MHz
RF Power	<0.3 W
Active Aperture	3mm Diameter
Average Diffraction Efficiency	N/A
Flatness Across Bandwidth	N/A
Min Diffraction Efficiency	75%
Peak Valley at 633 mm	λ/4
RMS at 633 mm	N/A
VSWR	2.2:1
Scan Angle	N/A
Time Bandwidth	N/A

Notes:

- 1. First order @ 120MHz collinear to input +/- 45°
- 2. Impedance matching frequency range 80-145MHz

OUTLINE DRAWING



Document

09/13/13

Control

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TOLERANCES:
XX ± .01
XXX ± .005

DR T. NG
9/3/2013

DESCRIPTION:
AODF 4120-3
3MM APERTURE

MATERIAL:

CHK

APP

FINISH:

APP

PART NUMBER
97-02799-02

REV:
B

SHEET 1 OF 1