



# NEOS TECHNOLOGIES

A Gooch & Housego Company

## SUB-SYSTEM SPECIFICATIONS

### MODEL NUMBER:

**45070-5-6.5DEG-.63-X**

**45070-5-6.5DEG-.63-Y**

**with 72003 mount**

The XY AOBD sub-system combines a 45070-5-6.5DEG-.63-X and a 45070-5-6.5DEG-.63-Y, with the acoustic propagation at right angle to each other, with the 72003 adjustable mount and is used as a 2D optical deflector sub-system.

### DOCUMENT NUMBER: 56A16080B

<u>PARAMETER</u>	<u>SPECIFICATION (for each Device)</u>
Interactive Material	TeO <sub>2</sub>
Acoustic Mode	Shear Wave
Operating Wavelength	633 nm
Window Configuration	AR Coated
Static Transmission	> 98 %
Operating Frequency	50 to 90 MHz.
Intensity Variation	2 dB
Diffraction Efficiency	> 70 % Midband per device with linear polarization, parallel to acoustic propagation for input device.*
Acoustic Aperture Size	5 mm
Process Time	7.5 $\mu$ s
Resolution (T.BW product)	300 spots with no less than 60 $\mu$ s scan time and full illumination of the aperture
$\Delta$ Deflection Angle	38 mrad @ 633 nm
Deflection Angle	67 mrad @ 633 nm
RF Power Level	2 watt maximum per device
Impedance	50 ohms
VSWR	< 2:1 across band
Package:	53A2024
Operating Manual:        Use Latest Revision.	51A16077
Acceptance Test Procedure:	42A14797
Acceptance Test Results form:	52A12608
Recommended Driver:	
Analog System Digital Frequency Synthesizer: 64020-200-2ADSDFS-A-2	
Analog Module Digital Frequency Synthesizer: 64020-200-2ADMDFS-A (2x)	
Analog System Voltage Controlled Oscillator: 64050-90-2ASVCO-2	
Analog Module Voltage Controlled Oscillator: 21050-90-2AMVCO (2x)	

**For More Information, Contact:        neos@neostech.com    Ph. (321) 242-7818    Fax (321) 242-1019**

\* Polarization is rotated 90 degrees in the first device, which is the correct polarization for the second device.