



NEOS TECHNOLOGIES

A Gooch & Housego Company

SUB-SYSTEM SPECIFICATIONS

MODEL NUMBER:

45050-5-6.5DEG-0.8-X

45050-5-6.5DEG-0.8-Y

with 72003 mount

The XY AOBD sub-system combines a 45050-5-6.5DEG-0.8-X and a 45050-5-6.5DEG-0.8-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: 56A15119C

<u>PARAMETER</u>	<u>SPECIFICATION (for each Device)</u>
Interactive Material	TeO ₂
Acoustic Mode	Shear
Operating Wavelength	780 to 850 nm
Window Configuration	AR Coated
Static Transmission	> 95 %
Operating Frequency	35 to 65 MHz.
Intensity Variation	2 dB
Diffraction Efficiency	> 70 % mid-band per device with linear polarization, parallel to acoustic propagation for input device.*
Acoustic Aperture Size	5 mm
Process Time	7.5 μs
Resolution (T.BW product)	225 spots with no less than 60 μs scan time and full illumination of the aperture
Δ Deflection Angle	39 mrad @ 850 nm
Deflection Angle	65 mrad @ 50 MHz, 850 nm
RF Power Level	2 watts max per device
Impedance	50 ohms
VSWR	< 2:1
Package: 72003	53D1970
Operating Manual: Use Latest Revision.	51A15120
Acceptance Test Procedure:	42A14795
Acceptance Test Results form:	52A14800
Recommended Drivers:	
Analog synthesized driver system: 64020-200-2ADSDFS-A-2	
Analog synthesized driver modules: 64020-200-2ADMDFS-A (x2)	
Analog System Voltage Controlled Oscillator: 64035-65-2ASVCO-2	
Analog Module Voltage Controlled Oscillator: 21035-65-2AMVCO (x2)	

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