



NEOS TECHNOLOGIES

A Gooch & Housego Company

DEVICE SPECIFICATIONS

MODEL NUMBER:

48058-1-.55

DOCUMENT NUMBER: **56A15360E**

<u>PARAMETER</u>	<u>SPECIFICATION</u>
Interactive Material	TeO ₂
Acoustic Mode	Shear
Operating Wavelength	442 to 676 nm
Operating Frequency	* See Chart below
Window Configuration	AR Coated
Static Transmission	>95 %
Diffraction Efficiency	≥ 80 % per wavelength
Input Light Polarization	Linear, Vertical (Perpendicular to acoustic propagation)
Input Beam Divergence	≤ 30 mrad (solid angle)
Acoustic Aperture Size	≤ 1 mm
Resolution	30 Å at 476 nm 75 Å at 676 nm
Deflection Angle (with respect to input beam)	1.4 degrees (wavelength insensitive)
Drive Power Per Wavelength	0.1 watt nominal
Total Power for All Wavelength	0.8 watt maximum
Impedance	50 ohms nominal
VSWR	≤ 2:1
Housing	53B00592
Housing with 72000 Bragg Mount	53B1827
Operating Manual: 51A14978	Acceptance Test Procedure: 42A14974 Acceptance Test Results form: 52A14966
Recommended Drivers:	
Eight Channel:	PCAOM Driver System: 64048-80-.1-8CH-16 PCAOM Driver Module: 64048-80-.1-8CH-16M
Four Channel:	PCAOM Driver System: 64048-80-.1-4CH-5 PCAOM Driver Module: 64048-80-.1-4CH-5M

Driver Frequency @ Specified Wavelength

Wavelength (nm)	Approximate Frequency (MHz)
442	85.52
457*	82.21
465*	80.10
472*	78.36
476*	77.40
482	76.06
488*	74.74
496*	75.67
501*	71.85
514*	69.36
520*	68.23
525	67.34
528*	66.84
530*	66.50
532	66.17
543	64.40
561	61.78
568*	60.76
575*	59.82
632*	53.20
635	52.90
647*	51.72
650	51.38
676*	49.05

* NEOS Driver Standard Settings.
Data for other wavelengths are available.

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