



NEOS TECHNOLOGIES

A Gooch & Housego Company

DEVICE SPECIFICATIONS

MODEL NUMBER:

48058-1-.55-WP

DOCUMENT NUMBER: 56A18063C

| <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 |
| Weatherproof Housing with 72000 Bragg Mount: | 53C00835 |
| 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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