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TECHSPEC<sup>®</sup> 1100nm CWL, 50mm Dia. Hard Coated OD 4.0 50nm Bandpass Filter



Stock **#85-906** [CONTACT US](#)

[Additional Bandwidths](#)

-

1

+

₹62,280

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| Volume Pricing |                               |
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| Qty 1-5        | ₹62,280 each                  |
| Qty 6-25       | ₹54,806 each                  |
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Product Downloads

| General                          |                         |
|----------------------------------|-------------------------|
| Bandpass Filter                  | Type:                   |
| Physical & Mechanical Properties |                         |
| 50.00 +0.0/-0.1                  | Diameter (mm):          |
| 45.0                             | Clear Aperture CA (mm): |

|                                                        |  |
|--------------------------------------------------------|--|
| <b>Construction:</b>                                   |  |
| Mounted in Black Anodized Ring                         |  |
| <b>Physical Durability:</b>                            |  |
| Adhesion per MIL-PRF-13830B, Section C.4.5.12          |  |
| Moderate abrasion per MIL-PRF-13830B, Section C.4.5.11 |  |
| Cleaning per ML-C-48497A Section 4.5.4.2               |  |

|                                  |  |
|----------------------------------|--|
| <b>Substrate Thickness (mm):</b> |  |
| 3.5 ±0.5                         |  |

Optical Properties

|                                |  |
|--------------------------------|--|
| <b>Angle of Incidence (°):</b> |  |
| 0                              |  |

|                        |  |
|------------------------|--|
| <b>Bandwidth (nm):</b> |  |
| 45                     |  |

|                                      |  |
|--------------------------------------|--|
| <b>Optical Density OD (Average):</b> |  |
| ≥4.0                                 |  |

|                                    |  |
|------------------------------------|--|
| <b>Center Wavelength CWL (nm):</b> |  |
| 1,100.00                           |  |

|                                       |  |
|---------------------------------------|--|
| <b>Full Width-Half Max FWHM (nm):</b> |  |
| 50.00                                 |  |

|                                            |  |
|--------------------------------------------|--|
| <b>Substrate:</b> <input type="checkbox"/> |  |
| Optical Glass                              |  |

|                                  |  |
|----------------------------------|--|
| <b>Minimum Transmission (%):</b> |  |
| ≥90                              |  |

|                 |  |
|-----------------|--|
| <b>Coating:</b> |  |
| Hard Coated     |  |

|                         |  |
|-------------------------|--|
| <b>Surface Quality:</b> |  |
| 80-50                   |  |

|                                        |  |
|----------------------------------------|--|
| <b>Blocking Wavelength Range (nm):</b> |  |
| 200 - 1500                             |  |

Threading & Mounting

|                              |  |
|------------------------------|--|
| <b>Mount Thickness (mm):</b> |  |
| 5.0 ±0.1                     |  |

Environmental & Durability Factors

|                                                       |  |
|-------------------------------------------------------|--|
| <b>Environmental Durability:</b>                      |  |
| Humidity per MIL-STD-810H, Section 507.6              |  |
| Temperature per MIL-STD-810H, Section 501.7 and 502.7 |  |

Regulatory Compliance

|                           |  |
|---------------------------|--|
| <b>RoHS 2015:</b>         |  |
| <a href="#">Compliant</a> |  |

|                                    |  |
|------------------------------------|--|
| <b>Certificate of Conformance:</b> |  |
| <a href="#">View</a>               |  |

|                           |  |
|---------------------------|--|
| <b>Reach 247:</b>         |  |
| <a href="#">Compliant</a> |  |

|                           |  |
|---------------------------|--|
| <b>Country of Origin:</b> |  |
| United States             |  |

|                                     |  |
|-------------------------------------|--|
| <b>Imported By:</b>                 |  |
| Edmund Optics India Private Limited |  |

Product Details

- High Transmission, Deep Blocking
- Broad Bandwidths Ideal for Imaging Applications
- Available in VIS and IR Center Wavelengths
- [Hard Coated OD 4.0 10nm](#) and [25nm](#) Bandpass Filters Also Available

TECHSPEC® Hard Coated OD 4.0 50nm Bandpass Filters are ideal for imaging applications, including machine vision inspection, fluorescence microscopy, and a variety of biotech instrumentation. These bandpass filters eliminate unwanted background noise and enhance the signal-to-noise ratio within imaging applications. Unlike traditional filters, these hard coated filters are fabricated using only a single substrate. TECHSPEC® Hard Coated OD 4.0 50nm Bandpass Filters offer deeper blocking, higher transmission, and steeper slopes than traditional coated filters. Hard Coated OD 4.0 [10nm](#) and [25nm](#) are also available.

**Note:** These filters are optimized for high spectral performance rather than high Laser Induced Damage Thresholds (LIDT). A typical LIDT for these filters is 1 J/cm<sup>2</sup> @ 532nm, 10ns. Please [contact us](#) if you require a filter with a higher LIDT value.

Technical Information



*All mounted TECHSPEC® Optical Filters have an arrow on the side of the mount that points to the filter-coated surface for quick reference. Filter oriented such that arrow points to filter coated surface S1. Anti-reflective (AR) coating is applied to S2.*

## Custom

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

## Compatible Mounts