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# Hoya Y50 (500nm), 50.8mm Sq., 2.5mm Thick, Colored Glass Longpass Filter

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Stock **#66-061** 20+ In Stock

-

1

+

£84<sup>00</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-10       | £84.00 each                   |
| Qty 11-49      | £72.80 each                   |
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Prices shown are exclusive of VAT/local taxes

Product Downloads

| General                          |                  |
|----------------------------------|------------------|
| Longpass Filter                  | Type:            |
| Physical & Mechanical Properties |                  |
| 50.8 x 50.8                      | Dimensions (mm): |
| 50.80                            | Length (mm):     |

|                      |                             |
|----------------------|-----------------------------|
| 2.50 ±0.2            | Thickness (mm):             |
| 50.80                | Width (mm):                 |
| ±0.38                | Dimensional Tolerance (mm): |
| Protective as needed | Bevel:                      |

|                    |                                       |
|--------------------|---------------------------------------|
| Optical Properties |                                       |
| 500±6              | Cut-Off Position λ <sub>c</sub> (nm): |
| 500.00 ±6          | Cut-On Wavelength (nm):               |
| Hoya Y50           | Glass/Filter Number:                  |
| Colored Glass      | Substrate: □                          |
| Uncoated           | Coating:                              |
| Yellow             | Color:                                |
| 80-50              | Surface Quality:                      |
| VIS                | Wavelength:                           |
| 0.92               | Reflection Factor P <sub>d</sub> :    |
| <25                | Δλ (nm):                              |
| >85                | TH (%):                               |

|                     |                                  |
|---------------------|----------------------------------|
| Material Properties |                                  |
| 2.68                | Density (g/cm³):                 |
| 560                 | Transformation Temperature (°C): |

|                       |                             |
|-----------------------|-----------------------------|
| Regulatory Compliance |                             |
| Exempt                | RoHS 2015:                  |
| Compliant             | Reach 224:                  |
| View                  | Certificate of Conformance: |

## Product Details

- UV, VIS and IR Pass Ranges
  - VIS Can Be Used for Color Bandpass
  - Also Available [Mounted](#)
- Hoya Colored Glass Longpass Filters feature a colored glass substrate. These filters are manufactured from substrates with inherently different absorption and transmission properties across a specific spectral region. Hoya Colored Glass Longpass Filters have UV, VIS, and IR pass ranges. Alongpass filter has low transmission in the shortwave region (stopband) and high transmission in the longwave region (passband). These filters are also available in a [mounted](#) version.

Longpass Filter Kits  
Longpass filter kits are available in three different options: UV-VIS, VIS, or VIS-NIR. Each kit contains 8 filters in either 12.5mm diameter, 1" diameter, or 2" square.

UV-VIS Kit Contains: WG 295, WG 305, WG 320, L 37, GG 400, GG 420, GG 435, GG 455  
VIS Kit Contains: GG 475, GG 495, OG 515, OG 530, OG 550, OG 570, OG 590, RG 610  
VIS-NIR Kit Contains: RG 630, RG 665, RG 695, RG 715, RG 780, RG 830, RG 850, RG 1000

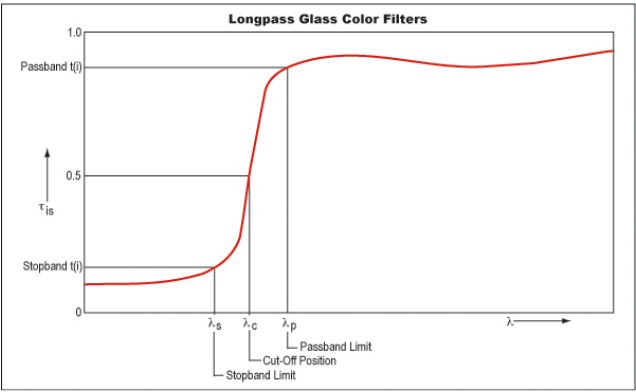
Complete Filter Kits  
Complete filter kits are available with 12.5mm diameter, 50.0mm diameter, 1" diameter, or 2" square filters. Each kit contains all 37 Longpass Glass Color Filter types.

Note: Due to supply chain issues, our kits may be delivered with an alternative packaging solution in place of a wooden box. For any questions, please contact [kits@edmundoptics.com](mailto:kits@edmundoptics.com).

### Filter Simulation Software

[Click here](#) to download HOYA's colored glass filter simulation software which can be used to calculate the internal transmittance and external transmission of each HOYA glass type. The software can simulate the performance of individual filters with user specified thickness.

## Technical Information



| $\lambda_s$ | limit of stopband: specified at 0.001% internal transmittance |
|-------------|---------------------------------------------------------------|
| $\lambda_c$ | cut-off position: specified at 50% internal transmittance     |
| $\lambda_p$ | limit of the passband                                         |
| $\tau_{ip}$ | internal spectral transmittance at $\lambda_p$                |
| $\rho$      | density                                                       |
| $T_g$       | transformation temperature                                    |

## 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