

## 50mm Square, Green Dichroic Filter



Additive and Subtractive Dichroic Color Filters

Stock #46-139 **20+ In Stock**

1 **£35<sup>00</sup>**

**ADD TO CART**

### Volume Pricing

|            |                               |
|------------|-------------------------------|
| Qty 1-24   | £35.80 each                   |
| Qty 25-49  | £32.40 each                   |
| Need More? | <a href="#">Request Quote</a> |

Prices shown are exclusive of VAT/local taxes

### Product Downloads

#### General

Dichroic Filter **Type:**

#### Physical & Mechanical Properties

50.0 x 50.0 **Dimensions (mm):**

50.00 **Length (mm):**

|              |                                    |
|--------------|------------------------------------|
| 2.00 Nominal | <b>Thickness (mm):</b>             |
| 50.00        | <b>Width (mm):</b>                 |
| ±0.25        | <b>Dimensional Tolerance (mm):</b> |
| ≥85          | <b>Clear Aperture (%):</b>         |

## Optical Properties

|   |  |
|---|--|
| 0   | <b>Angle of Incidence (°):</b>             |
| 575.00  | <b>Cut-Off Wavelength (nm):</b>            |
| 505.00  | <b>Cut-On Wavelength (nm):</b>             |
| <b>BOROFLOAT®</b>   | <b>Substrate:</b> <input type="checkbox"/> |
| Additive Color  | <b>Coating:</b>                            |
| Green   | <b>Color:</b>                              |
| 80-50   | <b>Surface Quality:</b>                    |
| 0.012   | <b>Cut-On Wavelength Tolerance (µm):</b>   |
| <b>Coating Specification:</b><br>$T_{avg} < 1.0\% @ 400 - 480nm$ , $T_{avg} > 80\% @ 525 - 555nm$ , $T_{avg} < 1.0\% @ 590 - 720nm$<br>$T_{abs} < 1.0\% @ 425 - 455nm$ , $T_{abs} > 70\% @ 530 - 550nm$ , $T_{abs} < 1.0\% @ 620 - 690nm$ |  |
| 0.012   | <b>Cut-Off Wavelength Tolerance (µm):</b>  |

## Environmental & Durability Factors

|      |                                    |
|------|------------------------------------|
| <100 | <b>Operating Temperature (°C):</b> |
|------|------------------------------------|

## Regulatory Compliance

|                  |                                    |
|------------------|------------------------------------|
| <b>Compliant</b> | <b>RoHS 2015:</b>                  |
| <b>View</b>      | <b>Certificate of Conformance:</b> |
| <b>Compliant</b> | <b>Reach 247:</b>                  |

## Need different specs or modifications?

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](#).

## Product Details

- High Saturation Dichroic Type
- Matrix of Sizes and Sets
- Precision Glass Substrate

Additive and Subtractive Dichroic Color Filters are dichroic filters ideal for machine vision and commonly used for color separation and contrast enhancement applications. Provided in unmounted versions, these filters are easily integrated into a variety of existing camera and illumination setups. In addition, dichroic filters provide wider fields of view not obtainable using narrow bandpass interference filters. Additive and Subtractive Dichroic Color Filters feature a precision glass substrate and are offered in a variety of sizes and sets. A complete set of these dichroic filters is available in a [Pre-Loaded filter wheel](#).

Typical applications include photo enlargers, beam separation, and placing filters in front of an imaging lens to selectively isolate spectral regions/colors.

## Technical Information

**Additive Filters Typical Transmittance Curves**



**Subtractive Filters Typical Transmittance Curves**



## Compatible Mounts

;