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# SCHOTT KG1, 12.5mm Sq., 3mm Thick, Colored Glass Heat Absorbing Shortpass Filter

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Stock #45-720 **20+ In Stock**

⊖ 1 ⊕ \$60.20

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### Volume Pricing

|            |                               |
|------------|-------------------------------|
| Qty 1-5    | <b>\$60.20</b> each           |
| Qty 6-10   | <b>\$53.90</b> each           |
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### Product Downloads

### General

IR Cut-Off Filter **Type:**

### Physical & Mechanical Properties

12.5 x 12.5 **Dimensions (mm):**

12.50 **Length (mm):**

**Thickness (mm):**

3.00 ±0.38

Width (mm):

12.50

Dimensional Tolerance (mm):

±0.25

Bevel:

Protective as needed

### Optical Properties

Glass/Filter Number:

SCHOTT KG1

Substrate:

Heat Absorbing Glass

Coating:

Uncoated

Index of Refraction (n<sub>d</sub>):

1.51

Surface Quality:

60-40

Reflection Factor P<sub>d</sub>:

0.92

Wavelength Range (nm):

300 - 2700

### Material Properties

Density (g/cm<sup>3</sup>):

2.53

Transformation Temperature (°C):

599

### Environmental & Durability Factors

Operating Temperature (°C):

300 Maximum

### Regulatory Compliance

RoHS 2015:

Compliant

Certificate of Conformance:

[View](#)

Reach 247:

Compliant

## Product Details

- SCHOTT KG Colored Glass Substrates
- Absorb Infrared Radiation
- Standard Sizes with 1, 2, or 3mm Thickness

SCHOTT Colored Glass Heat Absorbing Shortpass Filters feature SCHOTT's KG color glass, providing excellent absorption of infrared radiation. These filters can also be used as shortpass filters, passing visible wavelengths while blocking infrared radiation. SCHOTT Colored Glass Heat Absorbing Shortpass Filters are ideal for protecting sensitive components from heat generated by high intensity illumination systems. Custom sizes from 5 to 160mm are available upon request; for more information, visit our [Colored Glass Filter Manufacturing capabilities webpage](#).

### Filter Simulation Software

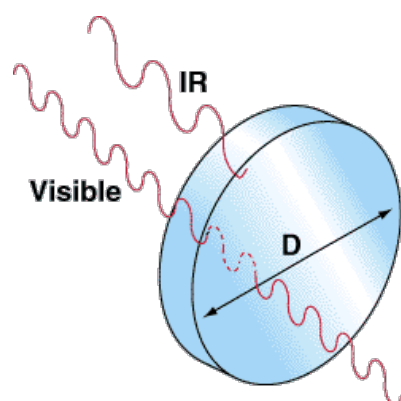
[Click here](#) to download SCHOTT's colored glass filter calculation program which can be used to calculate the internal transmittance and external transmission of each SCHOTT glass type. The program can simulate the performance of individual filters with user specified thickness or of stacked filters with varying glass types and thicknesses.

Interactive transmission curves are also available [here](#).

### Immediate Custom Quotes Available

If you have a need for any round, square, or rectangular size of a SCHOTT Colored Glass Heat Absorbing Shortpass Filter in dimensions between 5mm and 50mm, please visit our [Colored Filter Glass Tool](#). We'll provide an immediate quote, and can deliver the part to your requested size in approximately 2 weeks. A full list of standard manufacturing tolerances and restrictions are listed. For fully customized filters to your requirements, visit our [Customized Optical Filter Glass Capabilities](#) page.

## Technical Information



## Special Handling

These optics require special handling to avoid damage and ensure long-term performance. Proper handling, cleaning, and storage are essential to maintain optical quality. Explore our [Optics Cleaning Resources](#) for step-by-step guides and best practices. For personalized assistance, [Email us](#) or [Chat](#) with our technical support team.



Component Handling Tools

**Quote Your Size**

**Compatible Mounts**

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