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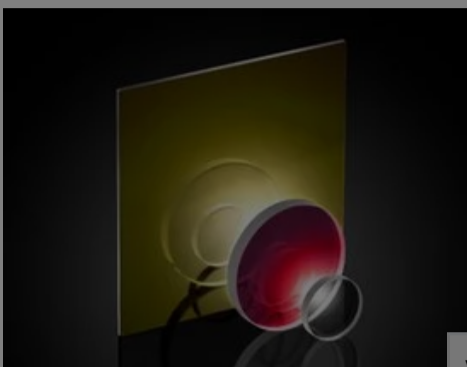
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SCHOTT OG-550 Longpass Filter

Please select your shipping country to view the most accurate inventory information, and to determine the correct Edmund Optics sales office for your order.

Select Your Country/Region: European Union

Submit



Stock #54-655 **20+ In Stock**

1

€37^{,00}

ADD TO CART



Volume Pricing	
Qty 1-5	€37,00 each
Qty 6-10	€33,50 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

- STEP:step
- Curve:pdf
- PDF Drawing:pdf
- IGES:igs
- eDrawing:eprt
- EO Spec Sheet
- [Download All](#)

General

Type: Longpass Filter

Physical & Mechanical Properties

Diameter (mm): 12.50

Thickness (mm): 3.00 ±0.2

Dimensional Tolerance (mm): ±0.38

Bevel: Protective as needed

Optical Properties

Cut-Off Position λ_c (nm): 550±6

Cut-On Wavelength (nm): 550.00

Glass/Filter Number: **SCHOTT OG550**

Coating: Uncoated

Color: Orange

Passband Limit 1 λ_{p1} (nm): 620.00

Spectral Transmittance t_p (%): 93.00

Stopband Limit λ_s (nm): 480.00

Surface Quality: 80-50

Wavelength: VIS

Reflection Factor P_d : 0.92

Material Properties

Density (g/cm³): 2.56

Transformation Temperature (°C): 507.00

Regulatory Compliance

RoHS 2015: **Exempt**

Reach 224: **Compliant**

Certificate of Conformance: [View](#)

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Product Details

- 27 Standard SCHOTT Color Glass Types
- Cut-On Wavelengths in the UV, Visible, or NIR
- Standard Circular and Square Sizes with 1, 2, or 3mm Thickness

SCHOTT Colored Glass Longpass Filters are available in 27 standard SCHOTT colored glass types, providing cut-on wavelengths in the ultra-violet (UV), visible, or near-infrared (NIR) spectra. The color glass substrates feature high spectral transmittance within their wavelength ranges. SCHOTT Colored Glass Longpass Filters are designed with standard circular and square sizes for easy integration into optical systems and have a 1, 2, or 3mm thickness. Custom sizes from 5 to 160mm are available upon request.

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.

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 Longpass Filter in dimensions between 5mm and 50mm, please visit our [Colored Filter Glass Tool](#). We'll provide an immediate quote, and we can deliver the part to your requested size in approximately 2 weeks. A full list of standard manufacturing tolerances and restrictions are listed. To find fully customized filters that meet your requirements, visit our [Customized Optical Filter Glass Capabilities](#) page.

Technical Information

Accessories

Note: Compatible accessories for individual stock numbers may vary. If unsure about which accessories work with your products, please contact us [here](#).

	Title	Compare	Stock Number	Price	Buy
MORE+	50mm Sq. VIS SCHOTT Colored Glass Longpass Filter Kit (8 Filters)		#17-015	€499,00 Request Quote	CONTACT US 1
MORE+	50mm Sq. VIS-NIR SCHOTT Colored Glass Longpass Filter Kit (8 Filters)		#17-016	€499,00 Request Quote	CONTACT US 1
MORE+	50/50.8mm Sq. Hoya/SCHOTT Complete Colored Glass Longpass Filter Kit (37 Filters)		#17-017	€2.200,00 Request Quote	CONTACT US 1

Quote Your Size

PLEASE ENTER YOUR REQUIRED SPECIFICATIONS HERE:

Glass Type

BG

Filter Number

Thickness (mm)

General Information SCHOTT Optical Filter Glass:

BG Blue, blue-green, and multiband glasses

GG Nearly colorless to yellow glasses, IR transmitting

KG Virtually colorless glasses with high transmission in the visible and absorption in the IR

NG Neutral density glasses with uniform attenuation in the visible range

Shape ⓘ

Diameter (mm) ⓘ

Length (mm) ⓘ

Width (mm) ⓘ

Quantity

[GET PRICING](#)

OG Orange glasses, IR transmitting

RG Red and black glasses, blocking visible, IR transmitting

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Note: The spectral curves above show the internal transmittance of the individual optical filter glasses

[ADDITIONAL CAPABILITIES](#)

TYPICAL 3-4 WEEK DELIVERY. DELIVERY DATE TO BE CONFIRMED AT TIME OF ORDER.

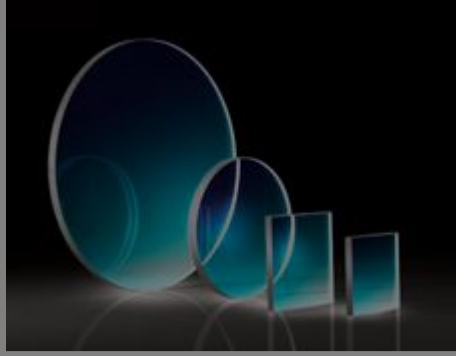
Standard Manufacturing Tolerances:

Edge length and diameter	+/-0.2 mm
Thickness	For ≤ 1mm: ± 0.1mm For > 1 – 3mm: ± 0.2mm
Surface Quality	60 – 40
Surface Accuracy	≤8 Waves
Parallelism	≤3 arcmin
Clear Aperture	≥90%
Edges & Bevels	Round parts ≥ Ø5mm: polished edges & protective bevel Square & rectangular parts < 50 x 50mm: polished edges, no bevel
Edge Chips	For ≤ Ø80mm: < 0.3mm (5/E0.3), for ≥ Ø81mm < 0.6mm (5/E0.6)

Surface quality according to DIN ISO 10110:

Polishing quality	P2
Defects	5/3 x 0.63
All edges machined	
Round filters with chamfer max. 0.5mm, square and rectangular < 50x50mm without chamfer	
Edge chips permitted up to 5/E0.3	

Frequently Purchased Together



#02-105 - 12.5mm Diameter Float Glass Window
€15,00

Qty



€44,50

Qty



Convex Lens
€40,50

Qty



#32-748 - 10.0mm Diameter, N-BK7 Ball Lens
€61,50

























Qty

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Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
	12.5/12.7mm Optic Dia., SM05 Thin Mount, M4	Fixed		#13-789	€19,50 Request Quote	10 In Stock <input type="text" value="1"/>
	12.5/12.7mm Optic Dia., SM05 Thin Mount, 8-32	Fixed		#13-790	€19,50 Request Quote	17 In Stock <input type="text" value="1"/>
	12.5/12.7mm Optic Dia., E-Series Kinematic Mount	Adjustable - Tip-Tilt		#15-865	€43,50 Request Quote	6 In Stock <input type="text" value="1"/>
	12.5/12.7mm Optic Dia., L-Slot Direct Mount	Fixed		#36-416	€59,00 Request Quote	17 In Stock <input type="text" value="1"/>
	12.5/12.7mm Optic Dia., Side Flange Direct Mount	Fixed		#36-418	€59,00 Request Quote	10 In Stock <input type="text" value="1"/>
	2.0 - 35.0mm Optic Dia., Three-Screw Adjustable Ring Mount	Fixed		#03-668	€63,00 Request Quote	20+ In Stock <input type="text" value="1"/>
	9.5 - 73.0mm Optic Dia., Three-Screw Adjustable Ring Mount	Fixed		#36-605	€83,00 Request Quote	20+ In Stock <input type="text" value="1"/>
	12.5/12.7mm Optic Dia., Kinematic Mount, 2-Screws	Adjustable - Tip-Tilt		#58-850	€93,00 Request Quote	20+ In Stock <input type="text" value="1"/>
	12.5/12.7mm Optic Dia., L-Slot and Rotation Direct Mount	Adjustable - Rotary		#36-417	€96,50 Request Quote	20+ In Stock <input type="text" value="1"/>
	12.5/12.7mm Optic Dia., Compact Kinematic Mount, 2-Screws	Adjustable - Tip-Tilt		#34-720	€101,00 Request Quote	20+ In Stock <input type="text" value="1"/>
	5.0 - 25.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-529	€102,00 Request Quote	20+ In Stock <input type="text" value="1"/>
	12.5/12.7mm Optic Dia., Kinematic Mount, 3-Screws	Adjustable - Tip-Tilt		#58-853	€104,00 Request Quote	20+ In Stock <input type="text" value="1"/>

	Title	Type	Compare	Stock Number	Price	Buy
MORE+	 7.0 - 40.0 Optic Height, English Bar-Type Optic Holder				€106,00	20+ In Stock <input type="text" value="1"/> 
MORE+	 10.0 - 60.0 Optic Height, Metric Bar-Type Optic Holder					CONTACT US <input type="text" value="1"/> 
MORE+	 7.0 - 67.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-669	€116,00 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+	 12.5/12.7mm Optic Dia., Compact Kinematic Mount, 3-Screws	Adjustable - Tip-Tilt		#34-721	€117,00 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+	 8.0 - 118.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-666	€120,00 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+	 4.0 - 36.0mm Optic Dia., Self-Centering Jaw Clamp	Fixed		#16-077	€157,00 Request Quote	5 In Stock <input type="text" value="1"/> 
MORE+	 12.5/12.7mm Optic Dia., Stainless Steel Kinematic Mount, 2-Screws	Adjustable - Tip-Tilt		#26-814	€161,00 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+	 12.5/12.7mm Optic Dia., Stainless Steel Kinematic Mount, 3-Screws	Adjustable - Tip-Tilt		#26-817	€182,00 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+	 12.5/12.7mm Optic Dia., X-Y Translating Optic Mount	Adjustable - Linear (XY)		#62-955	€261,00 Request Quote	7 In Stock <input type="text" value="1"/> 
MORE+	 5.0 - 100.0mm Optic Dia., Self-Centering Jaw Clamp	Fixed		#16-078	€410,00 Request Quote	CONTACT US <input type="text" value="1"/> 
MORE+	 12.5/12.7mm Optic Dia., Precision Gimbal Mount	Adjustable - Gimbal		#84-640	€421,00 Request Quote	7 In Stock <input type="text" value="1"/> 
MORE+	 12.5/12.7mm Optic Dia., X-Y-Z Translating Optic Mount	Adjustable - Linear (XYZ)		#62-958	€429,00 Request Quote	5 In Stock <input type="text" value="1"/> 

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Check out our full selection of mounts [here](#).

Resources

Media Type

- Application Note
- Video
- Published Article

 APPLICATION NOTE

The Importance of Optical Filter Orientation...

 APPLICATION NOTE

Custom Bandpass Filter using Shortpass an...

 VIDEO

Optical Filters Review

FAQ

Glossary

Trending in Optics

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? FAQ

What type of material should I look for in a filter?

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