

**FKSP01 - October 13, 2021**

Item # FKSP01 was discontinued on October 13, 2021. For informational purposes, this is a copy of the website content at that time and is valid only for the stated product.

**EDGEPASS FILTER KITS**

- ▶ 10 Mounted Edgepass Filters in Each Kit
- ▶ Longpass & Shortpass Filter Kits
- ▶ IR & Visible Longpass Filters

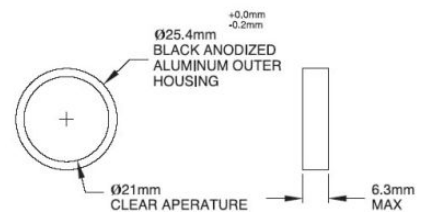


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**OVERVIEW**

**Applications**

- Emission Filters in Fluorescence Applications
- Order Sorting Filters for Photometry
- Stray Light or Trim Filters to Eliminate any Unwanted Near Band Radiation
- Raman Spectroscopy Filters
- Astronomy Applications



Thorlabs' Edgepass Filter Kits each contain 10 mounted longpass or shortpass filters for isolating regions of the visible or IR spectrum. Each filter is mounted in an unthreaded Ø1" black anodized aluminum ring that can be placed into our selection of filter mounts or Ø1" lens tubes using retaining rings. The filters are packaged in a plastic storage box. Detailed specifications can be found in the table below.

Our edgepass filters are constructed of durable dielectric coatings and will withstand the normal cleaning and handling associated with any high-quality optical component. Their film construction is essentially a modified quarter-wave stack, using interference effects, rather than absorption, to isolate their spectral bands. Thus, unlike colored filter glass, the cut-off/cut-on wavelength will be shifted to shorter wavelengths with an increase in the angle of incidence. This feature can be useful in applications where it is desirable to fine tune the location of the cut-on or cut-off wavelength. Our edgepass filters are hermetically sealed for maximum humidity protection and may be combined for custom bandpass filters.

Specifications	Longpass Filters	Shortpass Filters
Transmission Region	-	~400 nm to Cut-off

Transmission at Peak	80% (400 - 700 nm) 75% (750 - 1000 nm) 70% (>1000 nm)	70% (<500 nm) 70% (500 - 540 nm) 80% (550 - 1000 nm)
Cut-On or Cut-Off Tolerance ( $\Delta\lambda$ @ 50% of Peak)	$\pm 3$ nm to 750 nm $\pm 15$ nm to 1000 nm	$\pm 3$ nm to 750 nm $\pm 15$ nm to 1000 nm
Rejection Region	0.01% abs., 0.01% 200 nm to Cut On	0.01% abs., 0.0001% avg. (1.3X Cut-Off)
Cut-Off Slope	3% OD = 0.3 to OD = 4	4-5%, OD = 0.3 to OD = 4
Construction	Immersed Dielectric	
Scratch/Dig	80/50 per Mil-0-13830A	
Substrate Material	Soda Lime or Equivalent	

To inquire about our custom edgepass filter options, including the possibility of alternative cut-on or cut-off wavelengths, please contact Tech Support. Please note that there is a significant lead time and tooling cost associated with custom filters that makes the purchase of only a few pieces fairly costly.

[Hide Visible Shortpass Filter Kit](#)

### Visible Shortpass Filter Kit

Item #	Transmission Data <sup>a</sup>	Cut-Off Wavelength	Item #	Transmission Data <sup>a</sup>	Cut-Off Wavelength
FES0450		450 nm	FES0700		700 nm
FES0500		500 nm	FES0750		750 nm
FES0550		550 nm	FES0800		800 nm
FES0600		600 nm	FES0900		900 nm
FES0650		650 nm	FES1000		1000 nm

- a. The shaded regions in these graphs denote the spectral ranges over which we recommend using these filters. Please keep in mind that the data given is typical, and performance may vary from lot to lot, particularly outside of the shaded regions.

Part Number	Description	Price	Availability
FKSP01	Visible Shortpass Filter Kit, Mounted, Set of 10	\$836.47	Today

[Hide Visible Longpass Filter Kit](#)






### Visible Longpass Filter Kit


Item #	Transmission Data <sup>a</sup>	Cut-On Wavelength	Item #	Transmission Data <sup>a</sup>	Cut-On Wavelength
FEL0500		500 nm	FEL0750		750 nm
FEL0550		550 nm	FEL0800		800 nm
FEL0600		600 nm	FEL0850		850 nm
FEL0650		650 nm	FEL0900		900 nm
FEL0700		700 nm	FEL0950		950 nm

- a. The shaded regions in these graphs denote the spectral ranges over which we recommend using these filters. Please keep in mind that the data given is typical, and performance may vary from lot to lot, particularly outside of the shaded regions.

Part Number	Description	Price	Availability
FKLP01-VIS	Visible Longpass Filter Kit, Mounted, Set of 10	\$836.47	Today

## IR Longpass Filter Kit

Item #	Transmission Data <sup>a</sup>	Cut-On Wavelength
FEL1000		1000 nm
FEL1050		1050 nm
FEL1100		1100 nm
FEL1150		1150 nm
FEL1200		1200 nm

Item #	Transmission Data <sup>a</sup>	Cut-On Wavelength
FEL1250		1250 nm
FEL1300		1300 nm
FEL1350		1350 nm
FEL1400		1400 nm
FEL1500		1500 nm

- a. The shaded regions in these graphs denote the spectral ranges over which we recommend using these filters. Please keep in mind that the data given is typical, and performance may vary from lot to lot, particularly outside of the shaded regions.

Part Number	Description	Price	Availability
FKLP01-IR	IR Longpass Filter Kit, Mounted, Set of 10	\$836.47	5-8 Days



