

# SuperK SPLIT

Spectral splitting filter for SuperK lasers



# Passive splitting filter

## Ideal for supercontinuum beam splitting

The SuperK SPLIT is a passive filter that divides the SuperK spectrum into two broadband spectral outputs.

As a standard, the SuperK SPLIT has two outputs: Visible and nIR. You can choose the 'split' between the bands to be anywhere in the SuperK spectrum.



# SuperK SPLIT

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## Features

- Separate visible and IR ranges**
- Additional filters/polarizers**
- Manual shutters for port control**
- Free-space, collimated beam output (standard) or fiber coupled (option)**
- Plug and Play**
- Robust and compact industrial design**
- Maintenance-free 24/7 operation**

# Ease of use

## VIS/IR or nIR/IR

The SPLIT comes in two standard configurations: VIS/IR and nIR/IR. Other wavelength splits are available on request.

## Output options

As standard, the SuperK SPLIT provides collimated, free-space output. The SPLIT can be fitted with our CONNECT fiber delivery; a high-performance fiber delivery system complete with broad-band fibers and a range of termination options such as FC/PC connectors or collimators.

## Mounting options

The SPLIT can be mounted with the External Filter Holder add-on that fits on all our filtering accessories before the fiber coupling. It enables you to add any standard 1-inch filter in the beam path.

## CONNECT fiber delivery

| SPLIT port | Suitable CONNECT FD model |
|------------|---------------------------|
| VIS        | FD1, FD2, FD3, FD7        |
| nIR        | FD3, FD4, FD8, FD9        |
| IR         | FD5, FD6, FD8             |

# SuperK SPLIT

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## Options

**CONNECT fiber delivery**

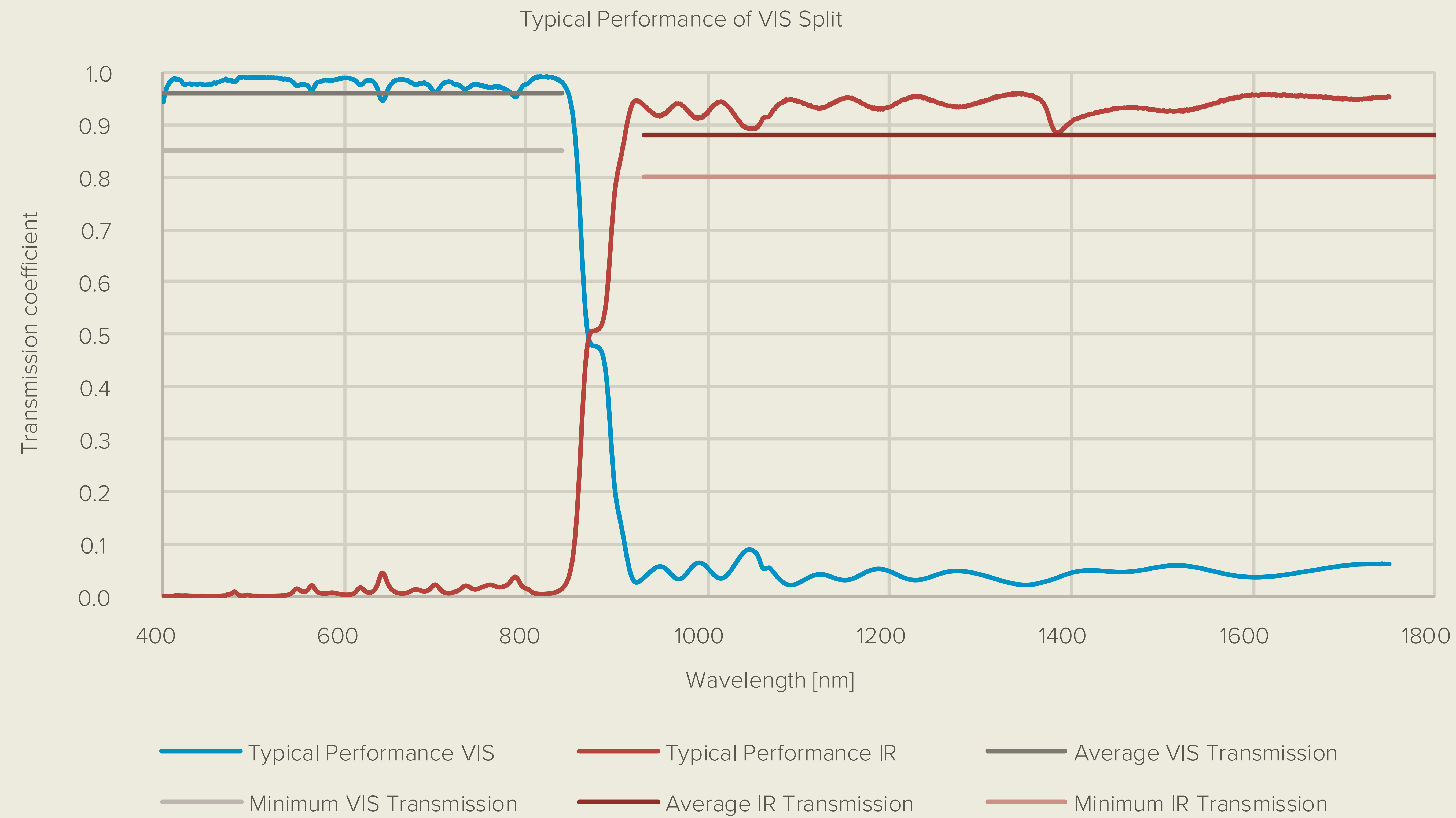
**Two spectral ranges**

**External Filter Holder**

# Performance Plots

**SuperK**  
SPLIT

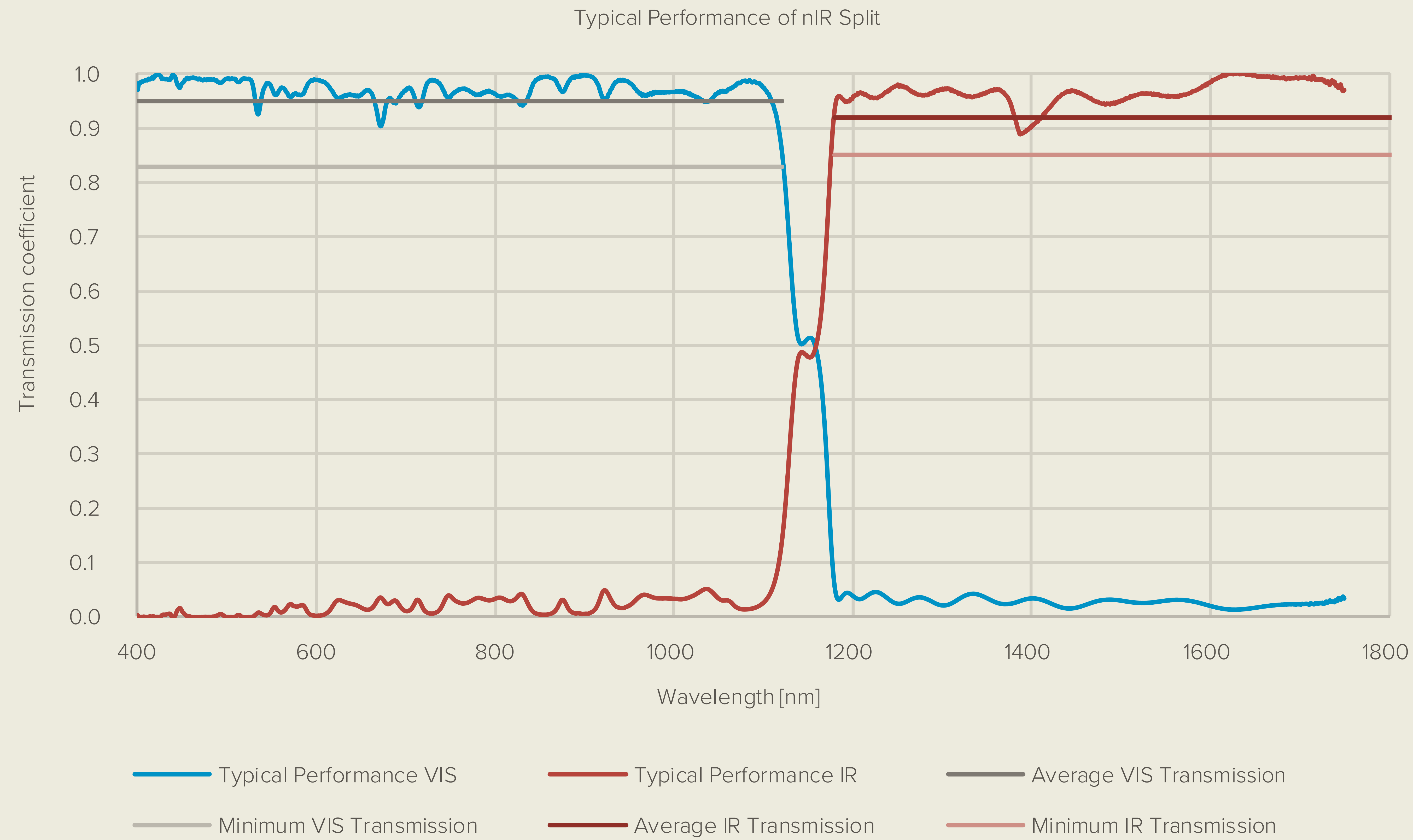
## Typical performance VIS



# Performance Plots

**SuperK**  
SPLIT

## Typical performance nIR



# Specifications

## SuperK SPLIT

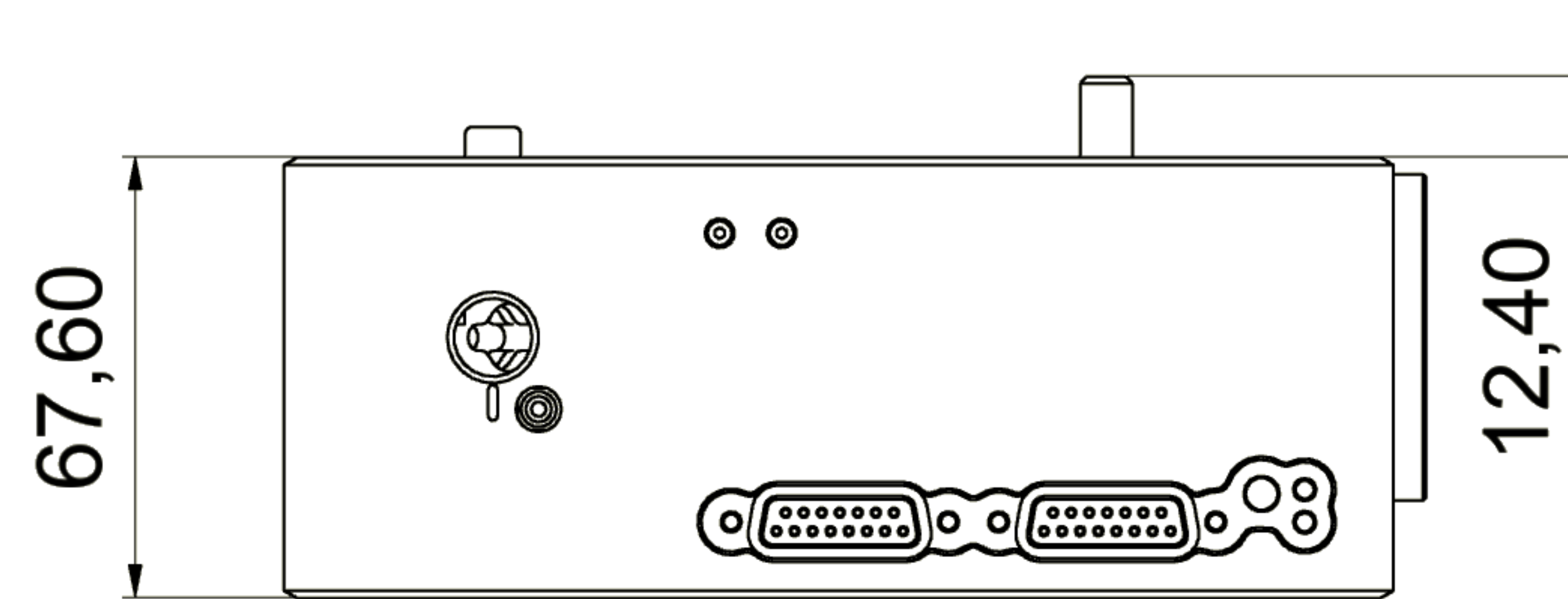
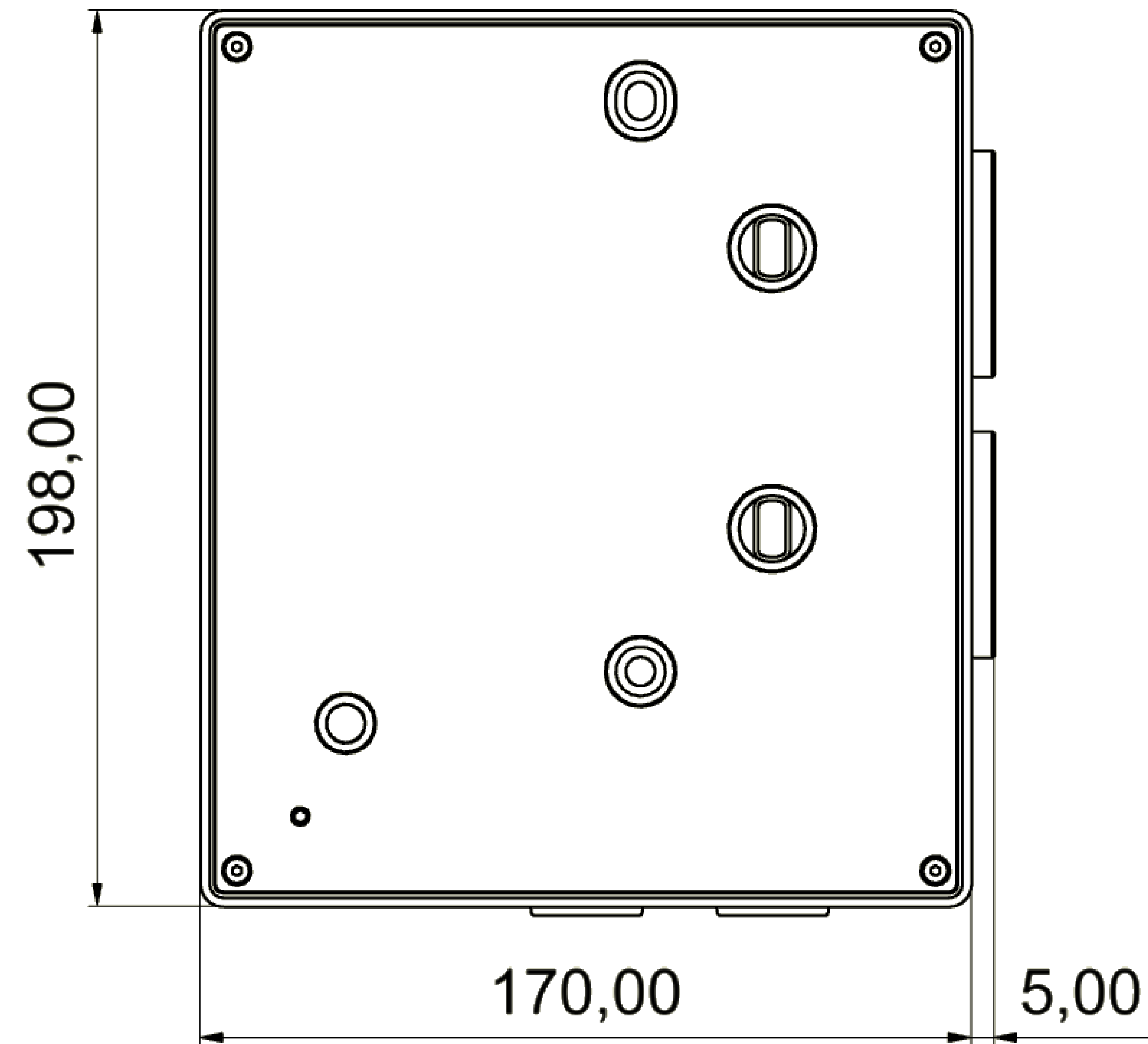
### Optical

|                                 |  |
|---------------------------------|--|
| Wavelength splitting range [nm] | VIS/IR: 400-830 / 915-2400<br>nIR/IR: 400-1120 / 1180-2400                             |
| Output mode                     | Free-space collimated or<br>SuperK CONNECT fiber delivery or<br>External Filter Holder |
| Mechanical shutter              | Integrated for both output ports   |
| Laser safety interlock          | Integrated and linked with SuperK<br>series  |
| Laser safety interlock          | Integrated   |

### Mechanical/Electrical/Environmental

|   |                  |
|---|------------------|
| Dimensions (WxHxL) [mm <sup>3</sup> ]     | 170 x 67.6 x 198 |
| Weight [kg]                               | 4.5 kg           |
| Operation temperature [°C]                | 15 – 30          |
| Storage temperature (non-condensing) [°C] | 5 – 50           |
| Humidity [% RH]                           | 20 – 80          |

# Technical Drawings



## SuperK SPLIT

All NKT Photonics products are produced under our quality management system certified in accordance with the ISO 9001:2015 standard.



# SOLUTIONS FOR INNOVATORS