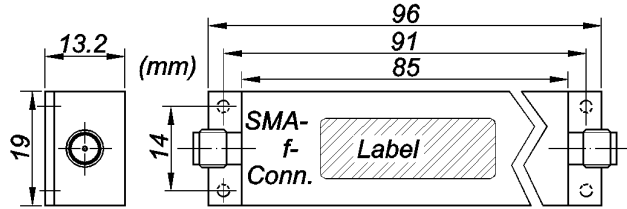
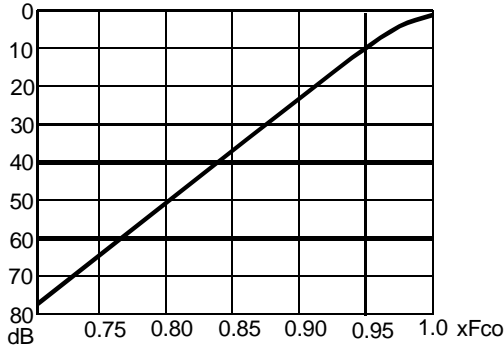




**Wainwright
Instruments GmbH**

Widdersberger Str.14
D82346 Andechs, Germany
 Tel.: +49-8152-918230 Fax: +49-8152-918255
 E-Mail: info@wainwright-filters.com
 Internet: www.wainwright-filters.com

| | | |
|---|--|--|
| Fco between 35 and 184 MHz | Highpass Stock* Filters Chebyshev Design 7 Sections | WHKS Series: 13.2 mm high (SMA-female connectors) |
|---|--|--|



Mounting Holes $\varnothing = 2.1$ mm

Return Loss (50 Ω) in Passband:
 near Fco: **20 dB typical** = VSWR 1.23 : 1 max.
 at the worst point: **14 dB min.** = VSWR 1.5 : 1 max.

| Model Number | Passband MHz | Max. Insertion Loss | | | Reject Attenuation | |
|--------------|--------------|---------------------|---------------|--------------|--------------------------------|--|
| | | at Fco | at 1.03 x Fco | at 1.1 x Fco | 40 dB min. at 0.835 x Fco = | 60 dB min. from DC to 0.765 x Fco = |
| WHKS 35-7SS | 35 to 1000 | 2.12 dB | 1.56 dB | 1.20 dB | 29.2 MHz | DC to 26.8 MHz |
| WHKS 40-7SS | 40 to 1000 | 1.96 dB | 1.44 dB | 1.11 dB | 33.4 MHz | DC to 30.6 MHz |
| WHKS 45-7SS | 45 to 1000 | 1.80 dB | 1.32 dB | 1.02 dB | 37.6 MHz | DC to 34.4 MHz |
| WHKS 50-7SS | 50 to 1250 | 1.63 dB | 1.20 dB | 0.93 dB | 41.8 MHz | DC to 38.3 MHz |
| WHKS 55-7SS | 55 to 1250 | 1.63 dB | 1.20 dB | 0.93 dB | 45.8 MHz | DC to 42.1 MHz |
| WHKS 60-7SS | 60 to 1250 | 1.63 dB | 1.20 dB | 0.93 dB | 50.1 MHz | DC to 45.9 MHz |
| WHKS 65-7SS | 65 to 1500 | 1.63 dB | 1.20 dB | 0.93 dB | 54.3 MHz | DC to 49.7 MHz |
| WHKS 70-7SS | 70 to 1500 | 1.63 dB | 1.20 dB | 0.93 dB | 58.5 MHz | DC to 53.6 MHz |
| WHKS 75-7SS | 75 to 1500 | 1.44 dB | 1.11 dB | 0.90 dB | 62.6 MHz | DC to 57.4 MHz |
| WHKS 80-7SS | 80 to 1500 | 1.44 dB | 1.11 dB | 0.90 dB | 66.8 MHz | DC to 61.2 MHz |
| WHKS 90-7SS | 90 to 1500 | 1.44 dB | 1.11 dB | 0.90 dB | 75.2 MHz | DC to 68.9 MHz |
| WHKS 100-7SS | 100 to 2000 | 1.26 dB | 1.03 dB | 0.87 dB | 83.5 MHz | DC to 76.5 MHz |
| WHKS 110-7SS | 110 to 2000 | 1.26 dB | 1.03 dB | 0.87 dB | 91.9 MHz | DC to 84.2 MHz |
| WHKS 120-7SS | 120 to 2000 | 1.26 dB | 1.03 dB | 0.87 dB | 100.0 MHz | DC to 91.8 MHz |
| WHKS 130-7SS | 130 to 2000 | 1.26 dB | 1.03 dB | 0.87 dB | 109.0 MHz | DC to 99.5 MHz |
| WHKS 140-7SS | 140 to 2000 | 1.26 dB | 1.03 dB | 0.87 dB | 117.0 MHz | DC to 107 MHz |
| WHKS 150-7SS | 150 to 2000 | 1.17 dB | 1.01 dB | 0.83 dB | 125.0 MHz | DC to 115 MHz |
| WHKS 160-7SS | 160 to 2000 | 1.17 dB | 1.01 dB | 0.83 dB | 134.0 MHz | DC to 122 MHz |
| WHKS 170-7SS | 170 to 2000 | 1.17 dB | 1.01 dB | 0.83 dB | 142.0 MHz | DC to 130 MHz |

Filters with **cut-off frequencies** that are **not listed above**:

Choose any Fco between 35 and 184 MHz and assign a **Model Number** by inserting the desired Fco.

Example = WHKS 125-7SS. The insertion loss of the lower frequency filter applies.

Example: insertion loss of filter WHKS 125-7SS see filter WHKS 120-7SS.

| PRICES (each) | EURO ¹⁾ | US-\$ ²⁾ |
|------------------------|--------------------|---------------------|
| 1 to 4 filters | 322 | 537 |
| 5 to 9 filters | 290 | 400 |
| 10 to 24 filters | 260 | 345 |
| Test Data Sheets: | 10 | 12 |
| Netw. Analyzer Curves: | 15 | 18 |
| Cert. of Conformance: | supplied | |

¹⁾ **EURO-Prices** are based on shipment ex factory, except for delivery within Germany, where shipping is included.

²⁾ **US-\$-Prices** include packaging, shipping by UPS, import charges, and customs duty. Dollar prices for shipments to the US only. **Customers from the USA are welcome to purchase at EURO-Prices** and carry postage/freight and all import charges directly.

For more details see terms & ordering information.

Delivery time if not in stock: normally 3 to 4 weeks
 - depending on work load in factory at time of order.

STOCK* FILTERS carry an „S“ in the model number (i.e. WHKS 120-7SS). Such filters are either in stock or can be built quickly from prepared assemblies. The filters are guaranteed to meet the specifications shown in the data sheets. Certificate of Conformance is supplied. Prices for Test Sheets see above.