

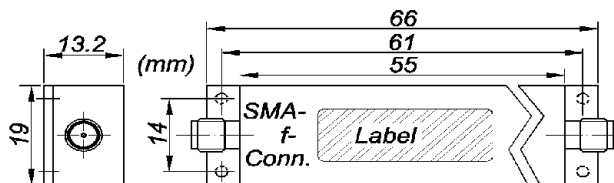
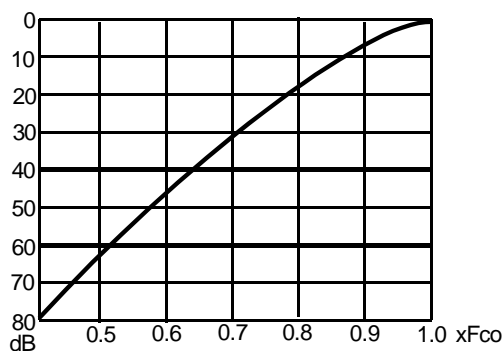


**Wainwright
Instruments GmbH**

Widdersberger Str.14
82346 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 Standard* Filters Chebyshev Design 4 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	Max. Insertion Loss			Reject Attenuation	
	MHz	at Fco	at 1.03 x Fco	at 1.1 x Fco	40 dB min. at 0.645 x Fco	60 dB min. from DC to 0.525 x Fco
WHKS 35-4SS	35 to 1000	0.87 dB	0.73 dB	0.56 dB	22.6 MHz	DC to 18,4 MHz
WHKS 40-4SS	40 to 1000	0.80 dB	0.68 dB	0.54 dB	25.8 MHz	DC to 21,0 MHz
WHKS 45-4SS	45 to 1000	0.73 dB	0.63 dB	0.52 dB	29.0 MHz	DC to 23,6 MHz
WHKS 50-4SS	50 to 1250	0.65 dB	0.58 dB	0.51 dB	32.3 MHz	DC to 26,3 MHz
WHKS 55-4SS	55 to 1250	0.65 dB	0.58 dB	0.51 dB	35.5 MHz	DC to 28,9 MHz
WHKS 60-4SS	60 to 1250	0.65 dB	0.58 dB	0.51 dB	38.7 MHz	DC to 31,5 MHz
WHKS 65-4SS	65 to 1500	0.65 dB	0.58 dB	0.51 dB	41.9 MHz	DC to 34,1 MHz
WHKS 70-4SS	70 to 1500	0.65 dB	0.58 dB	0.51 dB	45.2 MHz	DC to 36,8 MHz
WHKS 75-4SS	75 to 1500	0.65 dB	0.58 dB	0.51 dB	48.4 MHz	DC to 39,4 MHz
WHKS 80-4SS	80 to 1500	0.65 dB	0.58 dB	0.51 dB	51.6 MHz	DC to 42,0 MHz
WHKS 90-4SS	90 to 1500	0.65 dB	0.58 dB	0.51 dB	58.1 MHz	DC to 47,3 MHz
WHKS 100-4SS	100 to 2000	0.56 dB	0.51 dB	0.49 dB	64.5 MHz	DC to 52,5 MHz
WHKS 110-4SS	110 to 2000	0.56 dB	0.51 dB	0.49 dB	71.0 MHz	DC to 57,8 MHz
WHKS 120-4SS	120 to 2000	0.56 dB	0.51 dB	0.49 dB	77.4 MHz	DC to 63,0 MHz
WHKS 130-4SS	130 to 2000	0.56 dB	0.51 dB	0.49 dB	83.9 MHz	DC to 68,3 MHz
WHKS 140-4SS	140 to 2000	0.56 dB	0.51 dB	0.49 dB	90.3 MHz	DC to 73,5 MHz
WHKS 150-4SS	150 to 2000	0.56 dB	0.51 dB	0.49 dB	96.8 MHz	DC to 78,8 MHz
WHKS 160-4SS	160 to 2000	0.56 dB	0.51 dB	0.49 dB	103.0 MHz	DC to 84,0 MHz
WHKS 170-4SS	170 to 2000	0.56 dB	0.51 dB	0.49 dB	109.0 MHz	DC to 89,3 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 125-4SS. The insertion loss of the lower frequency filter applies.

Example: insertion loss of filter WHKS 125-4SS - see filter WHKS 120-4SS.

PRICES (each)	EURO	US-\$
1 to 4 filters	226	Will be quoted
5 to 9 filters	203	
10 to 24 filters	183	
Test Report with Analyzer Curves:	15	
Cert. of Conformance:	supplied	

Delivery Terms: FCA Andechs-Frieding
(free carrier) according to **Incoterms 2000**

Regarding payment terms and Warranty see [Terms and Conditions](#)

In Deutschland liefern wir frachtfrei gemäß CPT **Incoterms 2000** (unversichert).

Delivery Time: normally 3 to 4 weeks - depending on quantity ordered and on our work load at time of order.

*) **Standard Filters** carry an „S“ in the model number (i.e. WHKS 120-4SS). 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.