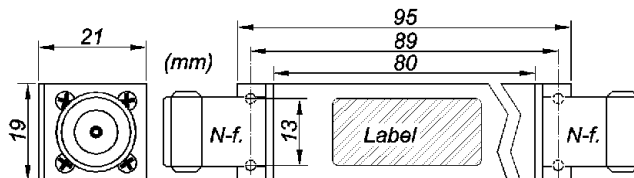
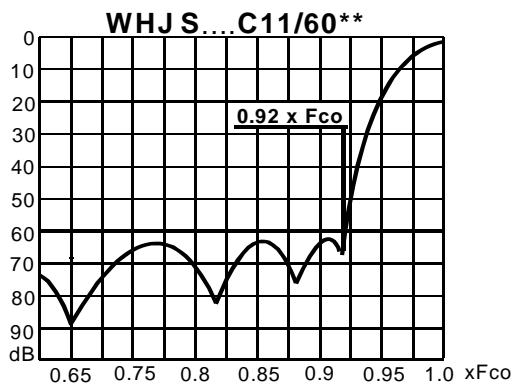




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|  |  |  |
|--|--|--|
| <b>Fco</b><br>between<br><b>20 and 499 MHz</b> | <b>Highpass Standard* Filters</b><br><b>Cauer (Elliptic) Design</b><br><b>C11/60**</b> | <b>WHJS Series:</b><br><b>21 mm high</b> |
|--|--|--|



Mounting Holes = M 3

**Connector Codes:\*\***

E (N-female) F (N-male) S (SMA-female) T (SMA-male)

**Return Loss (50 Ω) in Passband** - at the worst point

**Filters up to 224 MHz** Fco: 14 dB min. = VSWR 1.5 : 1 max.

**Filters 225 to 1000 MHz** Fco: 12 dB min. = VSWR 1.67 : 1 max.

| Model Number       | Passband<br>Fco to (MHz) | Max. Insertion Loss |               |              | Reject Attenuation<br>60 dB min.<br>from DC to 0.92 x Fco = |
|--------------------|--------------------------|---------------------|---------------|--------------|---|
|                    |                          | at Fco              | at 1.03 x Fco | at 1.1 x Fco |   |
| WHJS 20.0 C11/60** | 20.0 to 500              | 4.50 dB             | 2.80 dB       | 1.70 dB      | DC to 18.4 MHz  |
| WHJS 25.0 C11/60** | 25.0 to 500              | 2.50 dB             | 1.50 dB       | 1.10 dB      | DC to 23.0 MHz  |
| WHJS 30.0 C11/60** | 30.0 to 500              | 2.50 dB             | 1.50 dB       | 1.10 dB      | DC to 27.6 MHz  |
| WHJS 35.0 C11/60** | 35.0 to 500              | 2.50 dB             | 1.50 dB       | 1.10 dB      | DC to 32.2 MHz  |
| WHJS 40.0 C11/60** | 40.0 to 500              | 2.50 dB             | 1.50 dB       | 0.90 dB      | DC to 36.8 MHz  |
| WHJS 45.0 C11/60** | 45.0 to 500              | 2.50 dB             | 1.50 dB       | 0.90 dB      | DC to 41.4 MHz  |
| WHJS 50.0 C11/60** | 50.0 to 1000             | 2.50 dB             | 1.50 dB       | 0.90 dB      | DC to 46.0 MHz  |
| WHJS 60.0 C11/60** | 60.0 to 1000             | 2.50 dB             | 1.50 dB       | 0.90 dB      | DC to 55.2 MHz  |
| WHJS 70.0 C11/60** | 70.0 to 1000             | 2.50 dB             | 1.50 dB       | 0.90 dB      | DC to 64.4 MHz  |
| WHJS 80.0 C11/60** | 80.0 to 1000             | 2.50 dB             | 1.50 dB       | 0.90 dB      | DC to 73.6 MHz  |
| WHJS 90.0 C11/60** | 90.0 to 1000             | 2.50 dB             | 1.50 dB       | 0.90 dB      | DC to 82.8 MHz  |
| WHJS 100 C11/60**  | 100.0 to 1000            | 2.30 dB             | 1.30 dB       | 0.80 dB      | DC to 92.0 MHz  |
| WHJS 115 C11/60**  | 115.0 to 1500            | 2.30 dB             | 1.30 dB       | 0.80 dB      | DC to 106.0 MHz   |
| WHJS 130 C11/60**  | 130.0 to 1500            | 2.30 dB             | 1.30 dB       | 0.80 dB      | DC to 120.0 MHz   |
| WHJS 150 C11/60**  | 150.0 to 2000            | 1.80 dB             | 1.10 dB       | 0.80 dB      | DC to 138.0 MHz   |
| WHJS 175 C11/60**  | 175.0 to 2000            | 1.80 dB             | 1.10 dB       | 0.80 dB      | DC to 161.0 MHz   |
| WHJS 200 C11/60**  | 200.0 to 2000            | 1.80 dB             | 1.10 dB       | 0.80 dB      | DC to 184.0 MHz   |
| WHJS 225 C11/60**  | 225.0 to 2000            | 1.80 dB             | 1.10 dB       | 0.80 dB      | DC to 207.0 MHz   |
| WHJS 250 C11/60**  | 250.0 to 2000            | 1.80 dB             | 1.10 dB       | 0.80 dB      | DC to 230.0 MHz   |
| WHJS 275 C11/60**  | 275.0 to 2000            | 1.80 dB             | 1.10 dB       | 0.80 dB      | DC to 253.0 MHz   |
| WHJS 300 C11/60**  | 300.0 to 2000            | 1.80 dB             | 1.10 dB       | 0.80 dB      | DC to 276.0 MHz   |
| WHJS 350 C11/60**  | 350.0 to 2000            | 1.80 dB             | 1.10 dB       | 0.80 dB      | DC to 322.0 MHz   |
| WHJS 400 C11/60**  | 400.0 to 3000            | 1.80 dB             | 1.10 dB       | 0.80 dB      | DC to 368.0 MHz   |
| WHJS 450 C11/60**  | 450.0 to 3000            | 1.80 dB             | 1.10 dB       | 0.80 dB      | DC to 414.0 MHz   |

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

Choose any Fco between 20 MHz and 499 MHz and assign a **Model Number** by inserting the desired Fco.

**Example:** The Model Number of a 11 degree/60dB Cauer Highpass Filter with a cut-off frequency of 55 MHz is **WHJS 55C11/60SS**. For insertion loss and dimensions of the listed **lower frequency** see **WHJS 50C11/60SS**.

| PRICES (each)                     | EURO     | US-\$          |
|-----------------------------------|----------|----------------|
| 1 to 4 filters                    | 673      | Will be quoted |
| 5 to 9 filters                    | 606      |                |
| 10 to 24 filters                  | 546      |                |
| 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. WHJS 10C11/60SS). 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 supplied. Prices for Test Sheets see above