

# Band-stop Filter

## 118 ... 144 MHz

### The band-stop filter is used:

- to attenuate interfering signals,
- to increase the coupling attenuation between transmitter and receiver.

### Design and construction:

The band-stop filter consists of capacitively shortened  $\lambda/4$  coaxial resonators. The resonators of the 2- and 3-cavity band-stop filter are interconnected by cables of  $\lambda/4$  length.

### Filter characteristics:

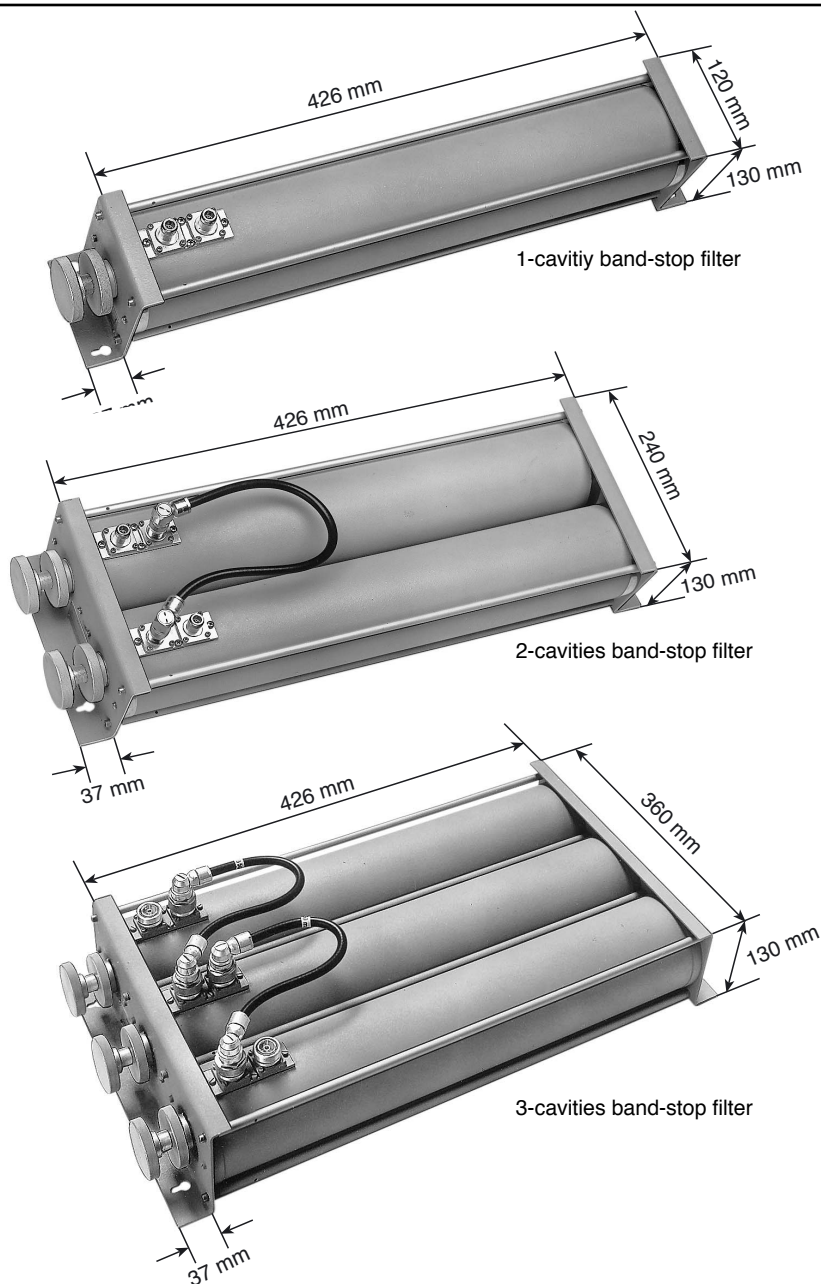
Narrow stop band range with high stop band attenuation, low insertion loss outside the stop band range.

### Tuning:

The band-stop filter is tuned to the desired stop band frequency at the factory. When ordering please specify stop band frequency.

The band-stop filter can also be tuned on site using the supplied instructions.

The resonators of the 2-cavity or 3-cavity band-stop filters can be tuned independently. In this way, 2 or 3 different interfering signals can be suppressed or one single interfering signal can be especially attenuated.



### Technical Data

Type No.	Connector	Version	Packing size	Weight
K 64 31 31	N female	1 cavity	614 x 194 x 195 mm	5.6 kg
K 64 32 31	N female	2 cavities	614 x 314 x 195 mm	11.2 kg
K 64 33 31	N female	3 cavities	614 x 434 x 195 mm	17.0 kg
Frequency range		118 ... 144 MHz		
Impedance		50 $\Omega$		
Input power		< 300 W at insertion loss < 1 dB		
Temperature range		-30° ... +60° C		
Temperature coefficient		< 18 x 10 <sup>-6</sup> /°C		
Material		Outer conductor and inner conductor: Brass, silver-plated		
Colour		Grey		
Installation		With 4 screws (max. 6 mm diameter)		

936.A2507 Subject to alteration.

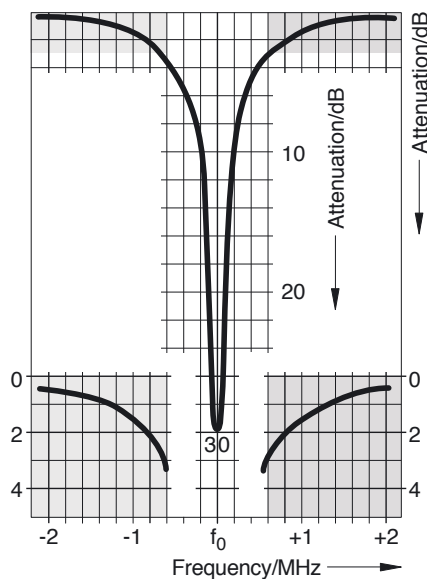
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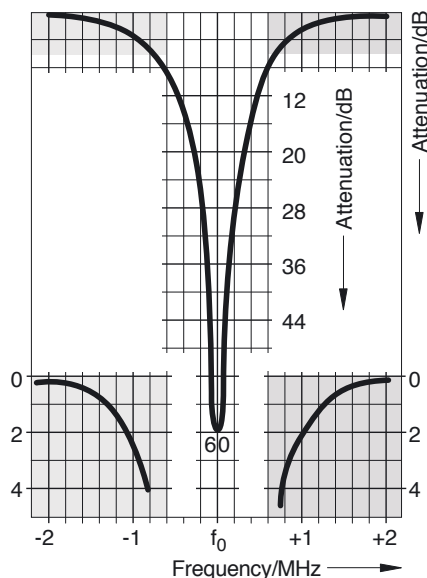
### Typical attenuation curves

Tuning examples:

1-cavity  
Band-stop Filter  
K 64 31 31



2-cavities  
Band-stop Filter  
K 64 32 31



3-cavities  
Band-stop Filter  
K 64 33 31

