



Operating our High Power Filters

Limited Warranty

We have been building filters for power application for some years now. We estimate the power capabilities listed in the individual data sheets and in our quotations from calculations and experience working with customers. However, we do not have the power sources necessary for power testing. The guarantee for filters with power handling is limited to damage to the filter and does not extend to damaged equipment or any other damage, such as loss of time, burnt hands, etc. The customer must make sure that all necessary safety precautions are taken. Any filter that is damaged by the power level listed in the data sheet or quotation - applied in the passband - will be repaired or replaced free of charge. Regarding the procedure for returning the filter, please see the Warranty that applies to your country:

[Terms & Warranty](#)

Lowpass & Highpass	
Bandpass	Text in preparation
Band Reject	Text in preparation
Notch	Text in preparation
Diplex	Text in preparation

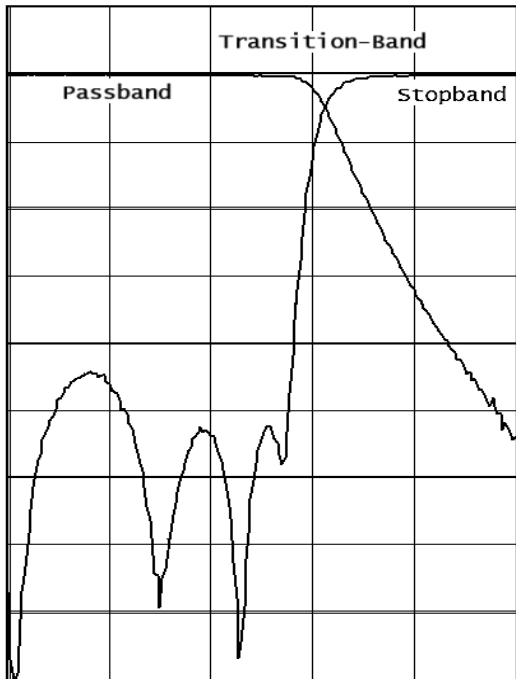
We are interested in cooperating with you in power testing our filters in your system. Please contact us if this is a possibility.

Lowpass and Highpass Filters

Passing high RF Power through a filter in the passband will cause only moderate heating because the insertion loss is very low - normally less than 0.5 dB.

When applying power in the stopband most of the energy would be reflected back and thus probably does not affect the filter too much either.

However, this may damage the power source!



A different situation exists in the transition area between passband and stopband.

Here the losses add up to 3 dB. For example, when applying RF power of 1kW, 500 Watts convert to heat. This may cause the soldered connections of the filter to melt.

The filters pass most of the heat to the enclosure, but if the filter is operated in the transition area, proper cooling is necessary. This may be achieved by mounting the filter on a heat sink and/or by forced air cooling.

Since we do not have any influence or control over the cooling measures our customers may take, we can only be responsible for filter damage when power was applied in the passband.

Please also see information on our [limited liability](#) at the top of this page.