

High Power Filters

Reactel High Power Filters are manufactured in discrete component or tubular designs with a power handling capability of up to 25 kW. These stout units are available in bandpass, lowpass, or highpass responses covering the frequency range of 5 MHz to 5 GHz. Typically, these units are intended to be used with convection cooling, forced air cooling or heat sink plates however the low loss characteristics will keep heat transfer to a minimum. Since these units are designed to meet your exact requirements, please contact the factory with your electrical specifications.

- 5 MHz to 5 GHz
- Power Levels up to 25 kW
- Low Loss
- Low Heat Transfer
- Bandpass, Lowpass and Highpass Designs Available

Part Numbering System

4 P B 4 — 100 — 10 N 1 1
1 2 3 4 5 6 7 8 9

Part Number Definition:

- 1 - Number of Sections
- 2 - High Power Designator
- 3 - B = Bandpass, L = Lowpass, H = Highpass
- 4 - Series Definition
- 5 - Center Frequency (omit for lowpass and highpass)
- 6 - 3 dB Bandwidth (bandpass) or
3 dB Cutoff (lowpass and highpass)
- 7 - Connector Definition (see page 27)
- 8 - Input Connector Type
- 9 - Output Connector Type



Reactel, Incorporated — Reacting First to Your Filter Requirements

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High Power Filter Specifications

	Bandpass	Lowpass	Highpass
Frequency Range	5 - 3000 MHz	5 - 5000 MHz	5 - 3000 MHz
Power Capacity	up to 5 kW	up to 25 kW	up to 5 kW
Impedance	50Ω	50Ω	50Ω
Maximum VSWR	1.5:1	1.5:1	1.5:1
Number of Sections	2 - 10	2 - 10	2 - 10
Shock	30G	30G	30G
Vibration	10G	10G	10G
Operating Temperature	-55° to +125° C	-55° to +125° C	-55° to +125° C
Altitude	Space Rated	Space Rated	Space Rated
Humidity	up to 95%	up to 95%	up to 95%

