**K9HZ 100W LPF – FILTER BOARD**

**BUILD INSTRUCTIONS for PCB V1.10**

**JULY 1, 2025**

The K9HZ LPF board set is intended to be a very compact yet effective 11 band low-pass filter network to meet FCC regulations. While this board was intended to be use in a set of three, it can be used stand-alone for just using the filters.

**Operating Data**

Power Requirements: 12-15 VDC at 100ma max (provided by the Control Board).

Frequency Range: 1.8MHz – 54MHz/ 160M – 6M in 11 bands inclusive.

RF Input: 150W Maximum. Input and Output with bypass.

Control: BCD band data from the Control Board via two connectors.

Performance: N-th order harmonic reduction more than than 43 db.

**Inventory and Prework**

Spend some time to determine if you want all 11 bands for 1.8MHz-54MHz/ 160M-6M (all amateur bands included in that frequency range). If you wish to delete a particular band or build that filter later, just remove those parts from the BOM before ordering. The BOM is:





**Prework for the Filter Board**

Please see the “Modifications By Others” directory for some tweaks to the LPF filter coils to maximize

Return loss.