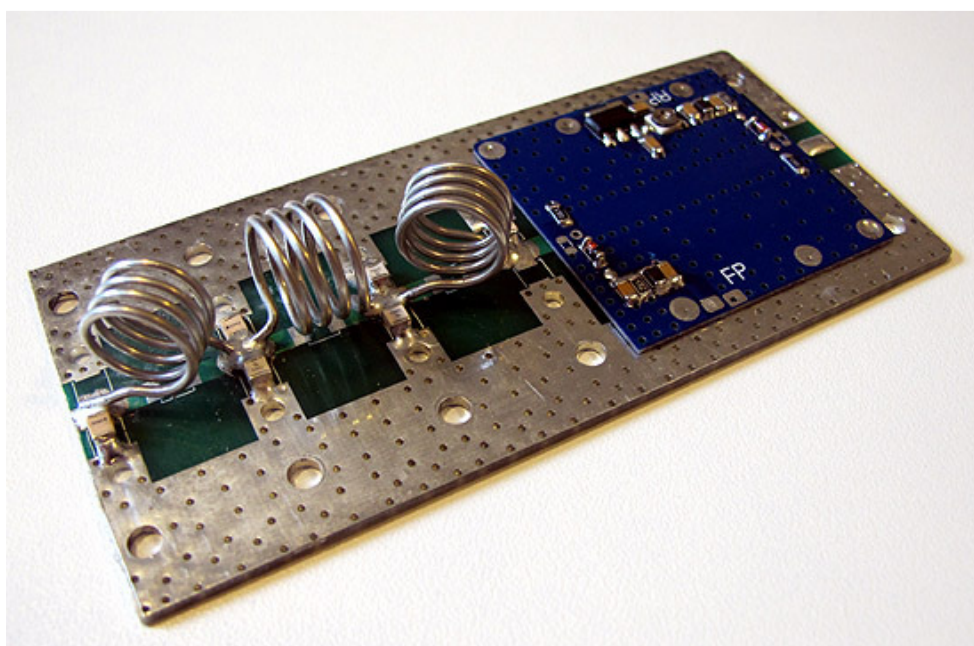


LPF 100W\_4M is a Low Pass Filter for use in 4M Ham radio equipment.

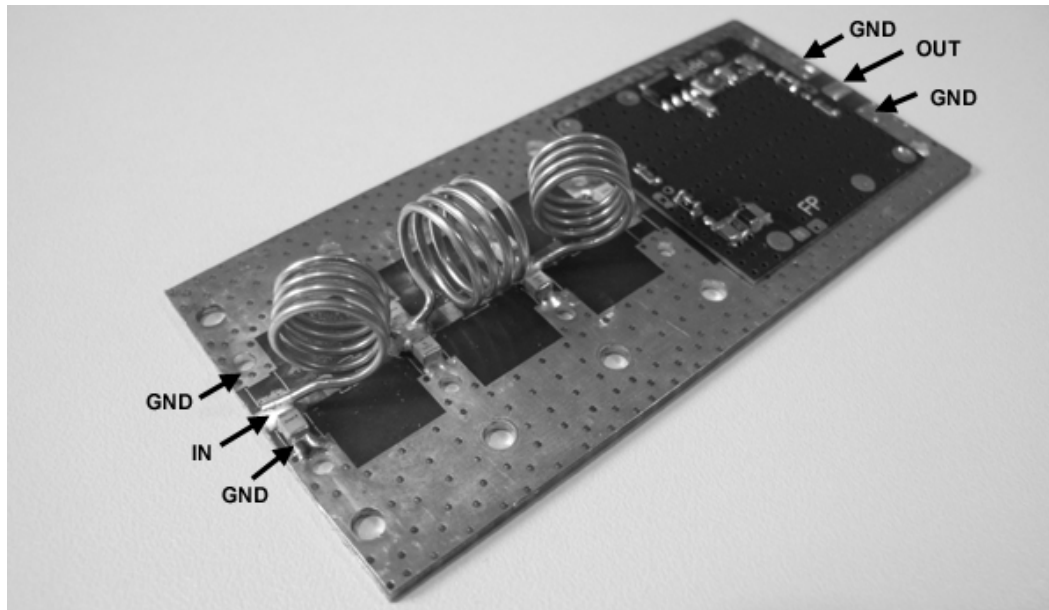
As an extra feature, there is a small VSWR bridge attached with a simple shutdown pad that can be connected to your amplifier.

This filter is optimised for use with our 25W en 80W pallet amplifiers and can be mounted on the same heat sink as the pallet.



ELECTRICAL SPECIFICATIONS	min	typ	max	
Power handling	100	150	150	W
Input impedance		50		ohm
Output impedance		50		ohm
Harmonic supression @ 140MHz	-40	-45		dB
Harmonic supression @ 210MHz	-55	-60		dB
Internal loss		0.2	0.3	dB

## Connections LPF



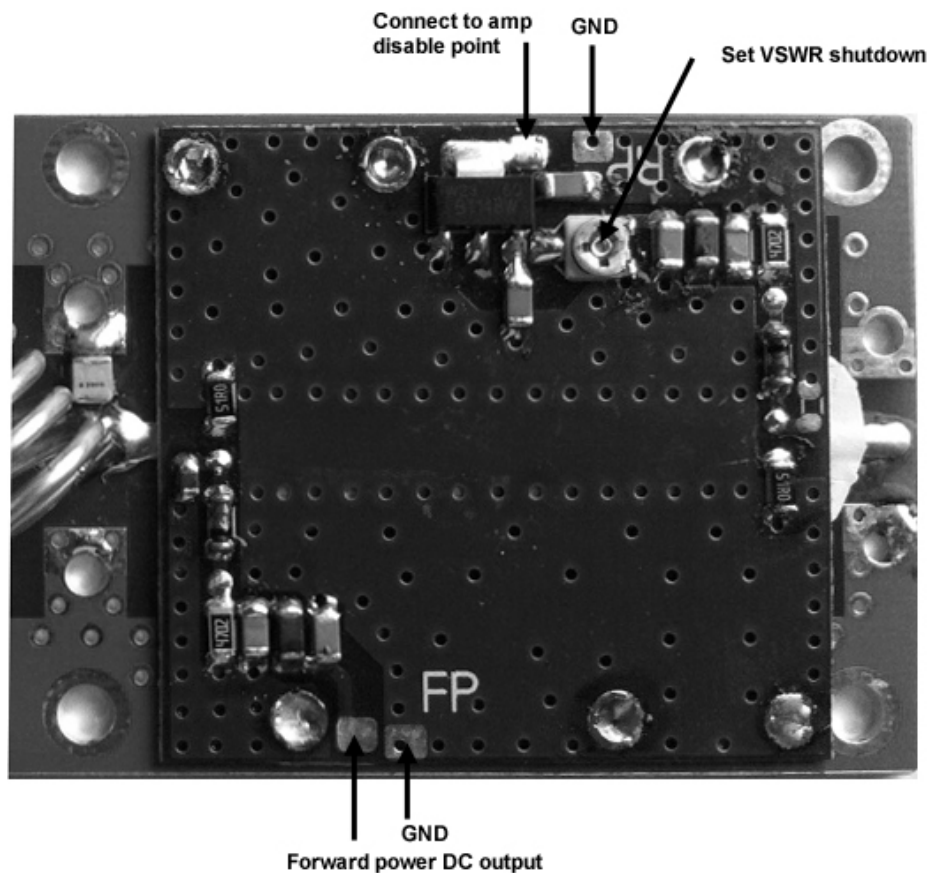
**IN**, connect inner conductor of 50 Ohm Teflon coax to this point. For best result use 18CM Coax length between your amplifier and LPF

**GND**, connect outer conductor of 50 Ohm Teflon coax to this point.

**Out**, connect inner conductor of 50 Ohm Teflon coax to this point. Connect an 18 CM Coax length from the output to the output connector of the enclosure. Without this coax, the VSWR Bridge will not function!

**GND**, connect the outer conductor of 50 Ohm Teflon coax to this point.

## Connections VWSR PCB



### How to adjust the VSWR point

To adjust the shutdown function of the VSWR Bridge, you have to switch the input and output of the LPF. Then power on the AMP to 12-15W output (about 10-15% of the amps max output power). Then set the variable resistor that it will start to lower the DC of the bias of your Amplifier. (A voltmeter is required)

If the variable resistor is set, power off your amplifier and switch the in en out of the filter again. Now your VSWR protection is active.

**NOTE: THIS IS ONLY A SIMPLE SHUTDOWN, WE CANNOT GIVE ANY WARRENTY THAT YOUR AMP WILL BE PROTECTED IN ALL CASES !**

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