

PCB low pass filters

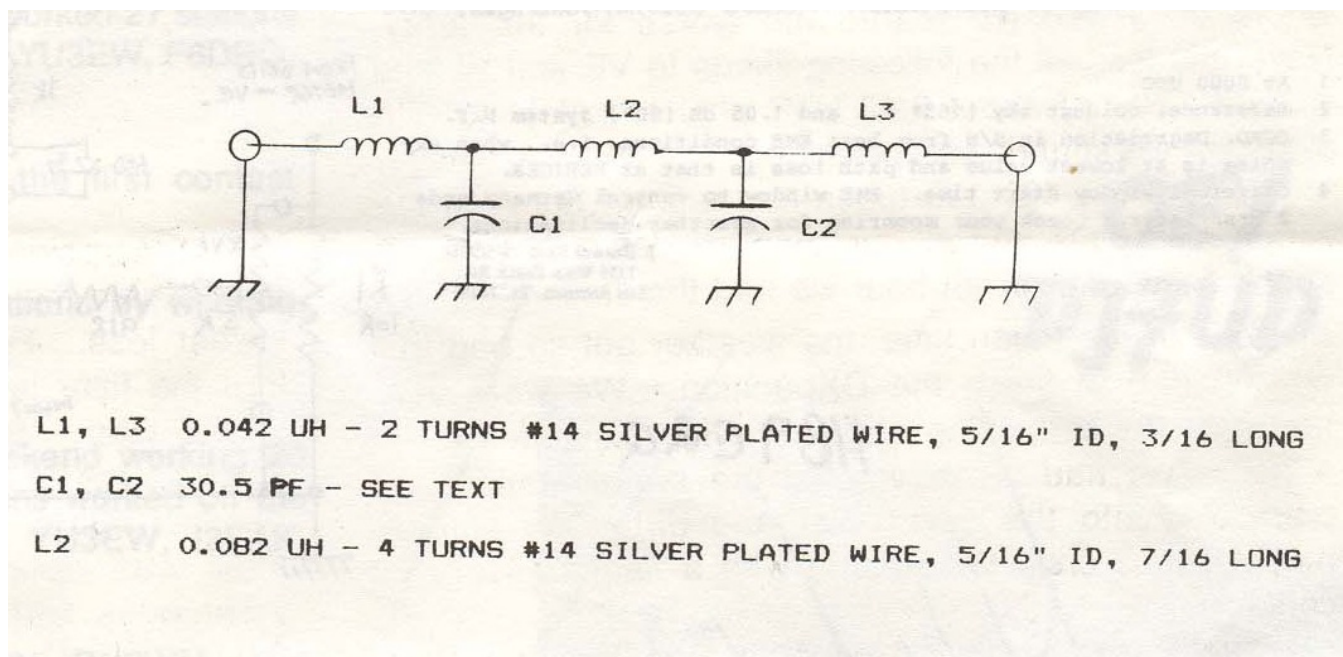
Written by Administrator

Wednesday, 25 November 2009 19:34 - Last Updated Wednesday, 09 December 2009 14:00

In a discussion I had with Peter, SM2CEW and Graham, F5VHX, the idea grew to make simple low pass filters. Simple but suitable for fairly high power. The idea originated from a design by M.W. Cook, AF9Y. The scan of the article gives no details about the magazine it originates from.

He describes an simple low pass filter, according to his finding suitable for 2 kW power. Of course I didn't have the same PCB material available as he did, but a short search on the internet provided the formulas to calculate the capacitance. Even a online PCB capacitance calculator popped up [HERE](#)

The schematic presented by AF9Y



My prototype of the 144 PCB LP filter

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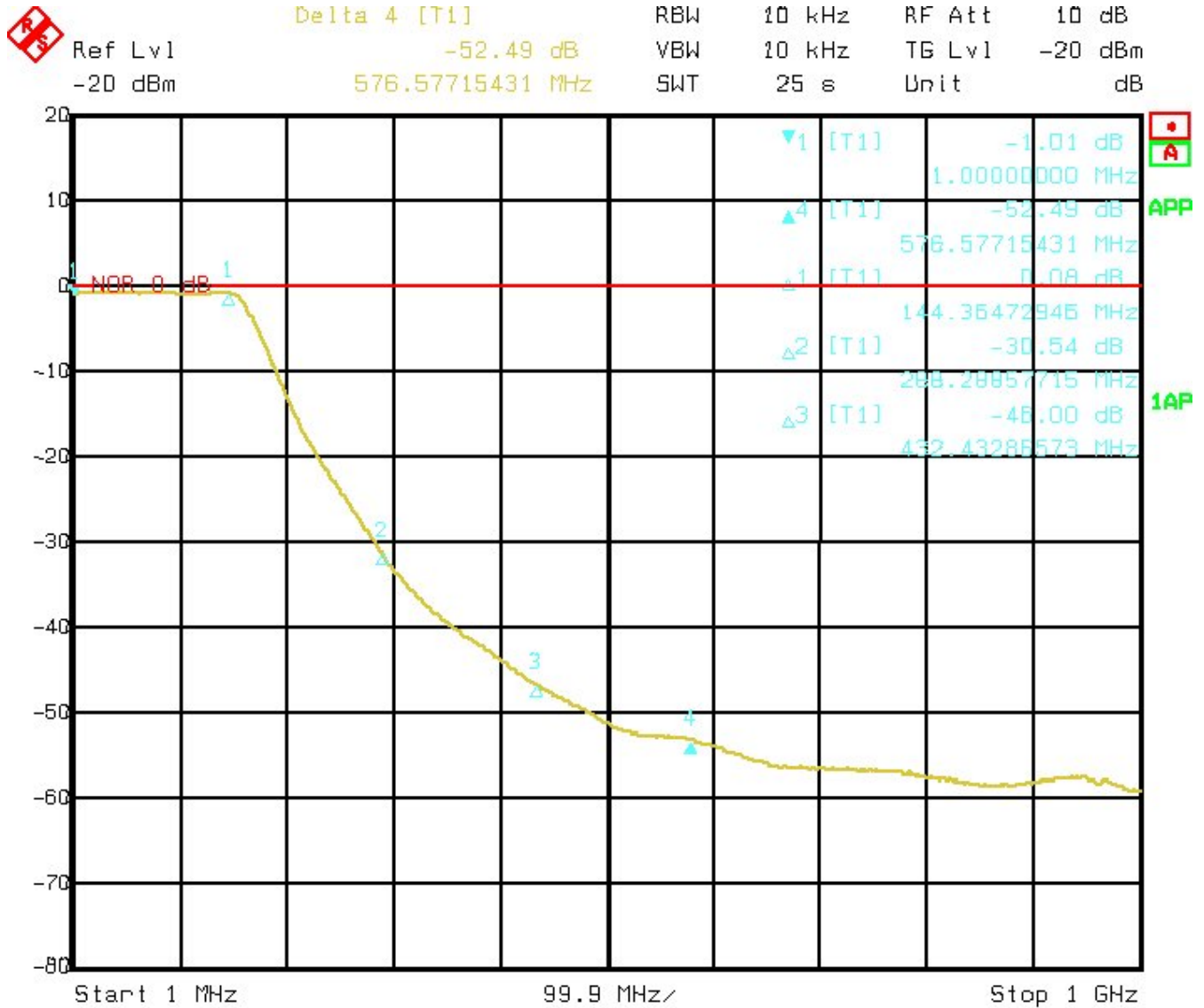


The measured results can be seen [here](#). Special thanks go to Jack, PE1KXH

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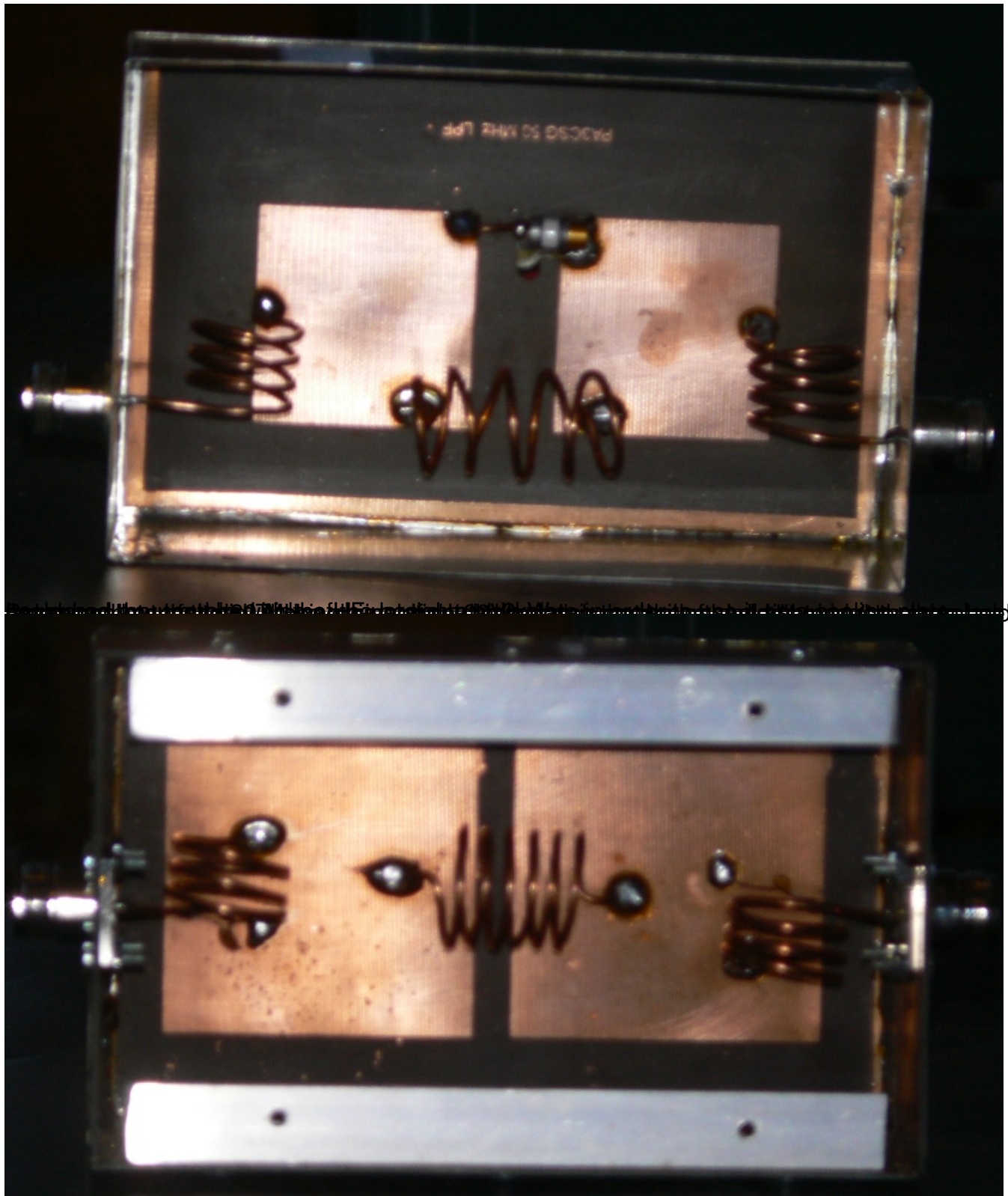
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The image shows a PCB low pass filter assembly. The top view shows the internal components, including three coils and a central component. The bottom view shows the same assembly from the reverse side, with two large metal plates mounted on the PCB.