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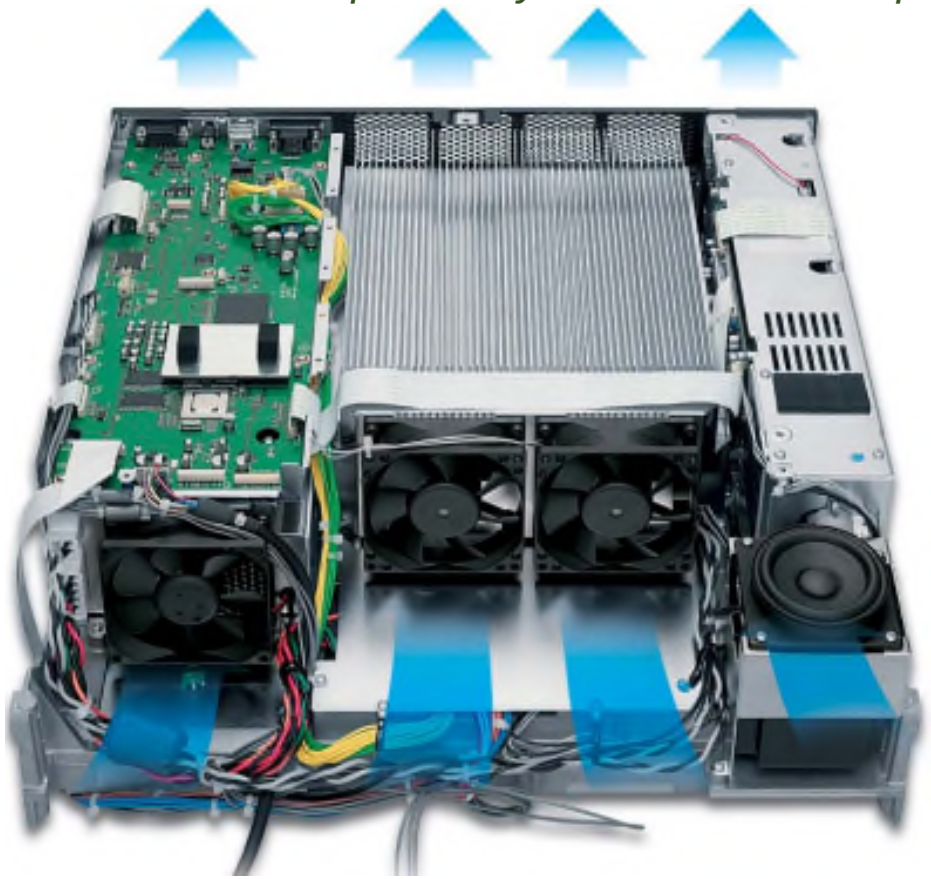
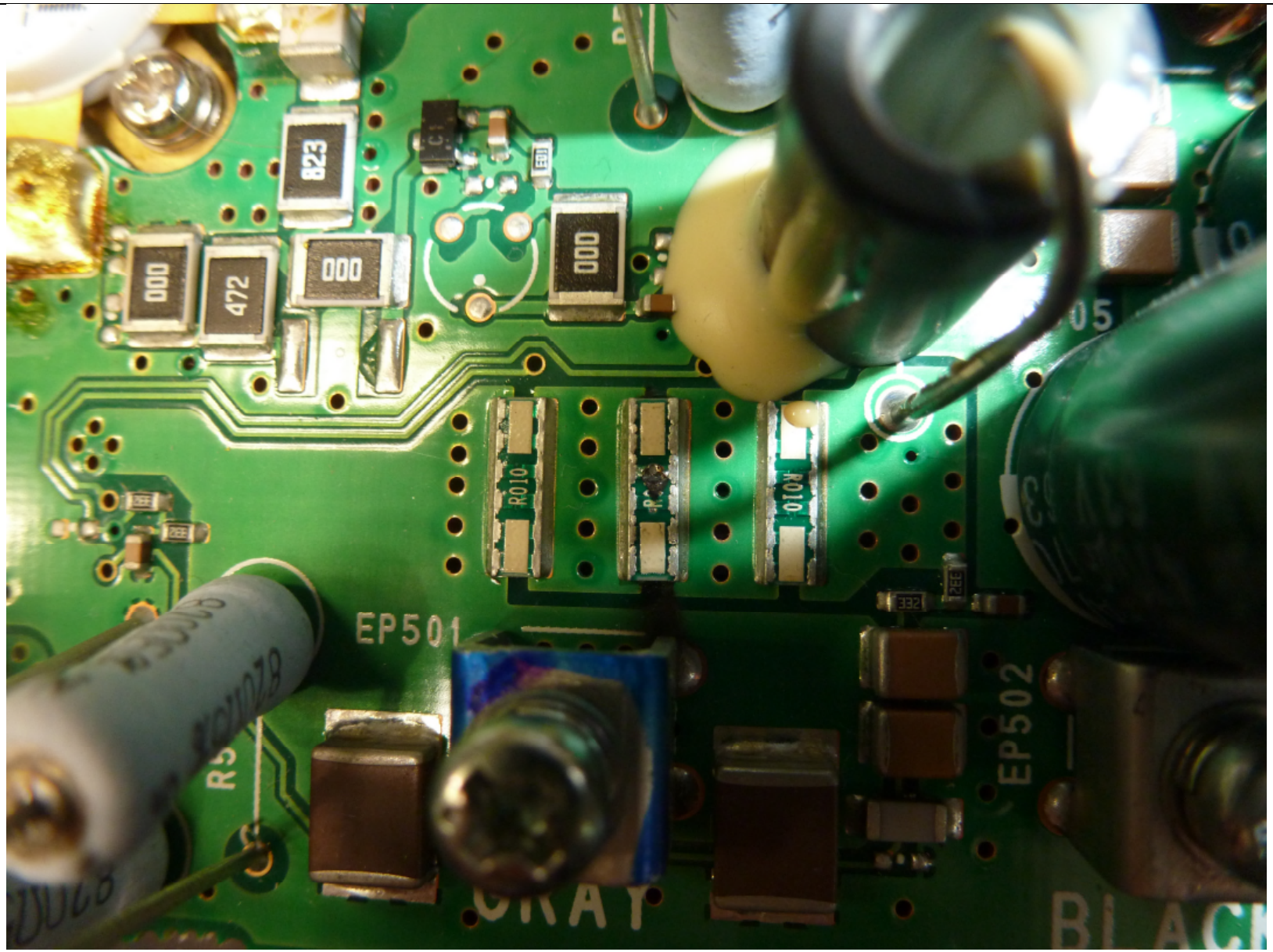
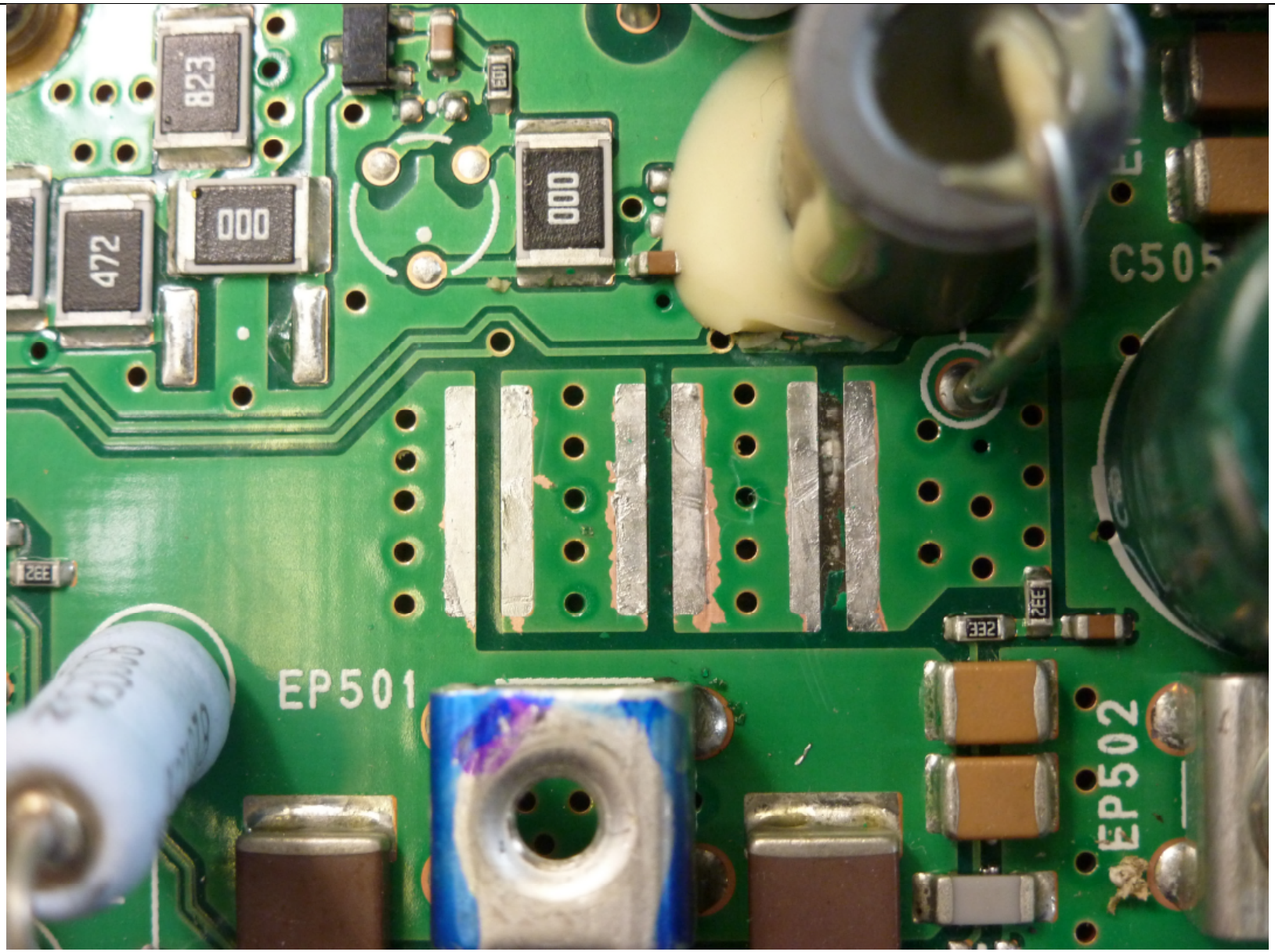
Some information about the repair of my IC7700 Power Amplifire Module

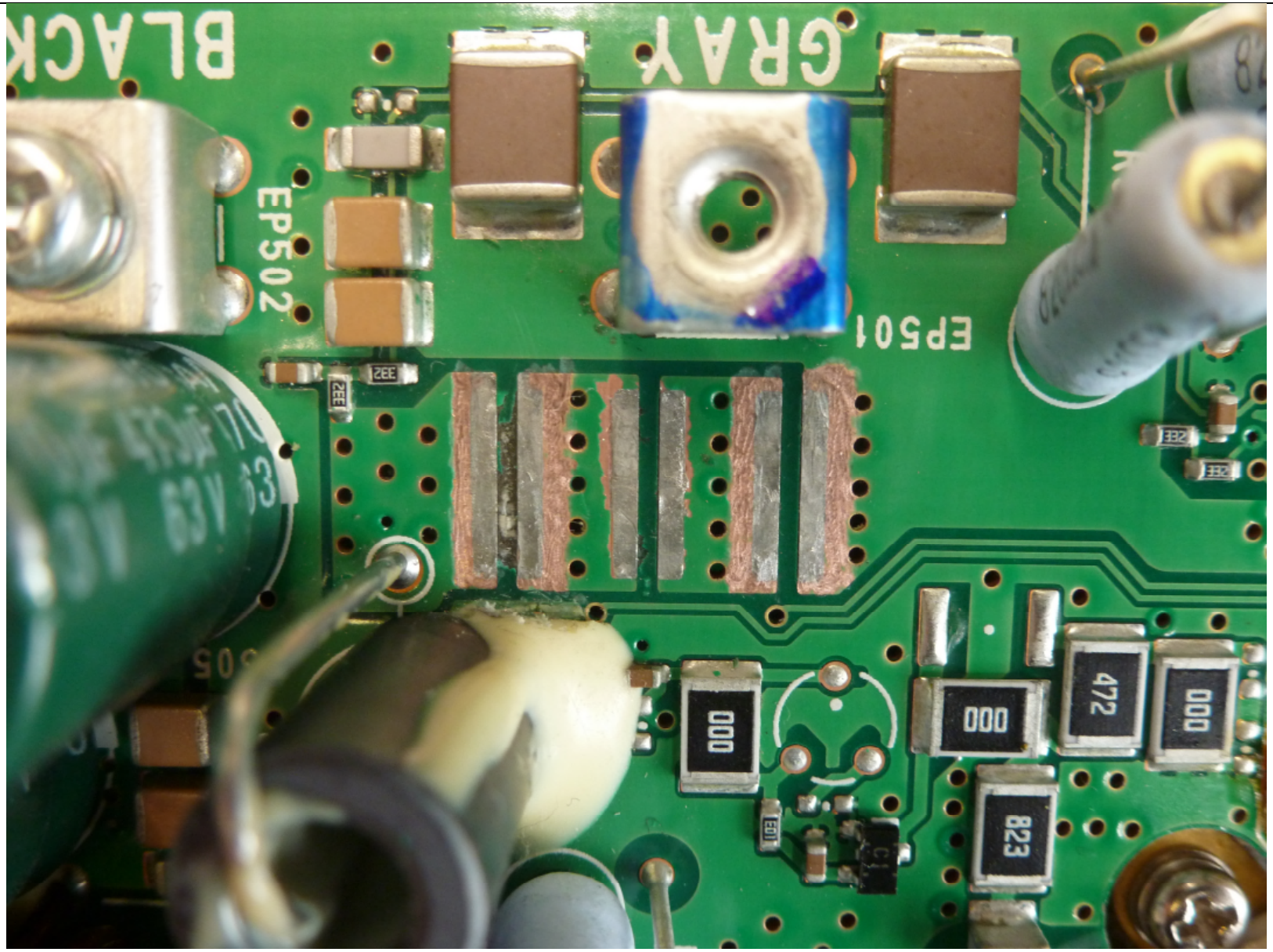




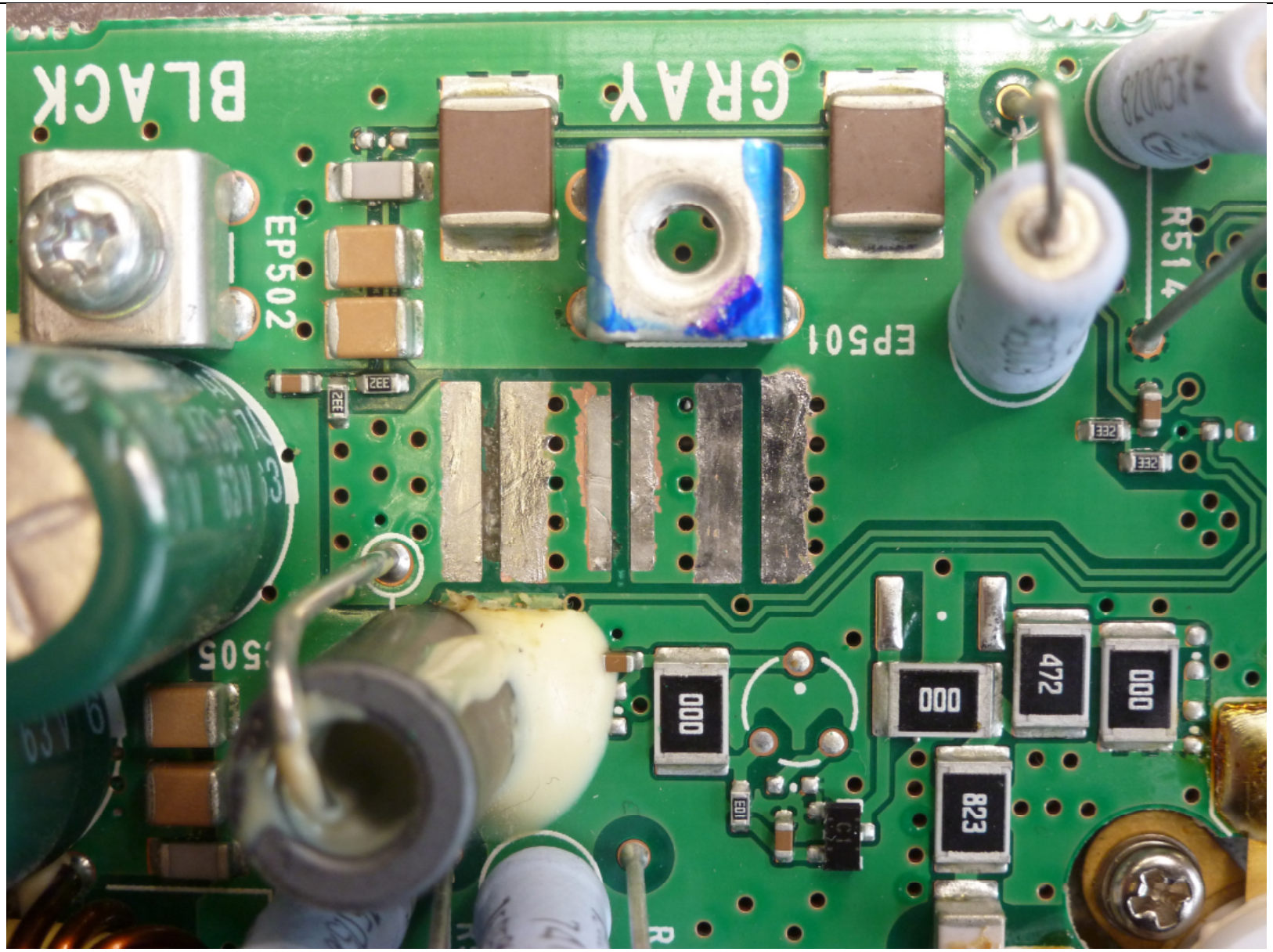
Two of three shunt are blowing (three times 10 mΩ in series connection = 30 mΩ)



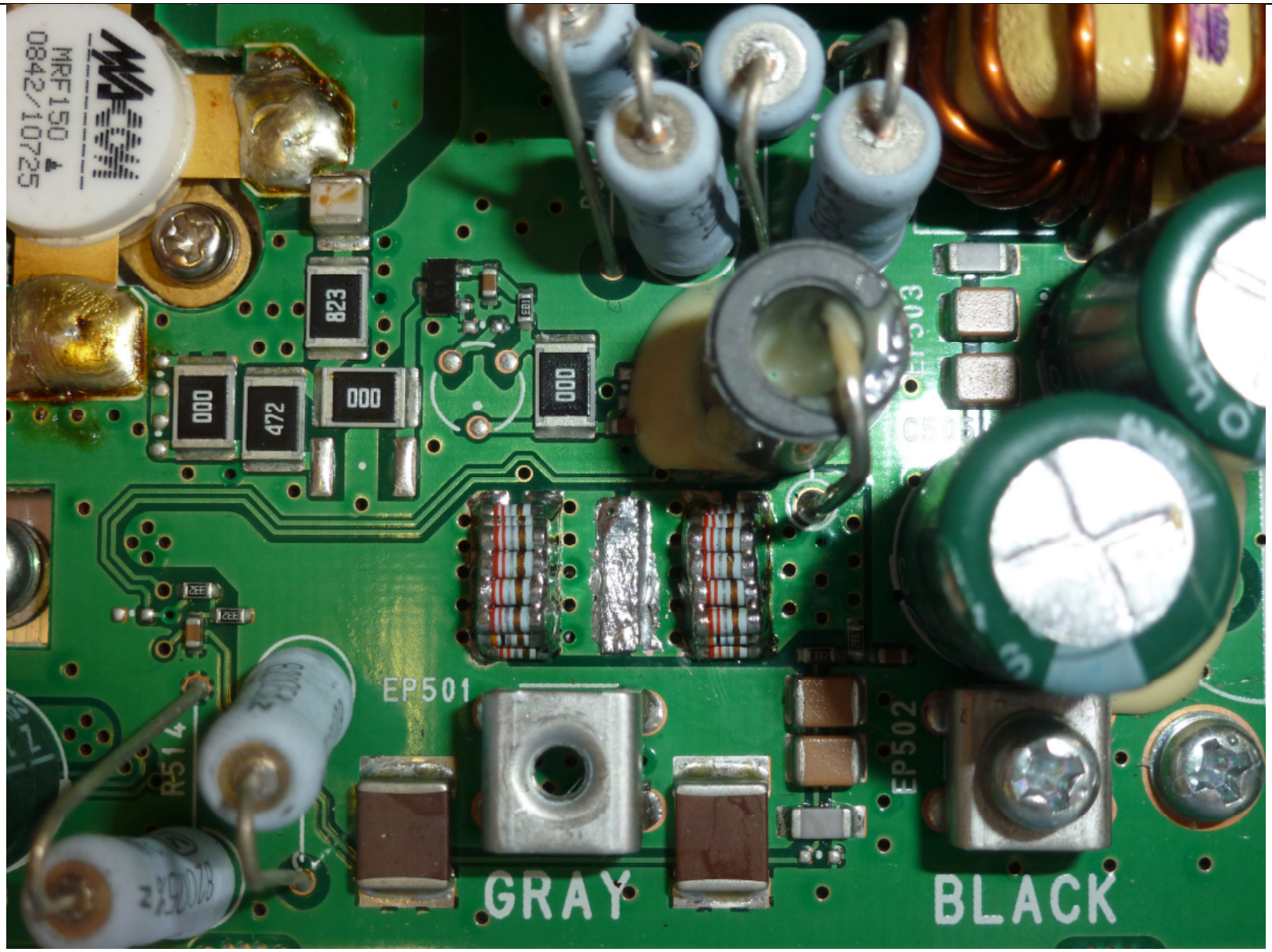
Preparation for soldering the MELF resistors (Part 1)



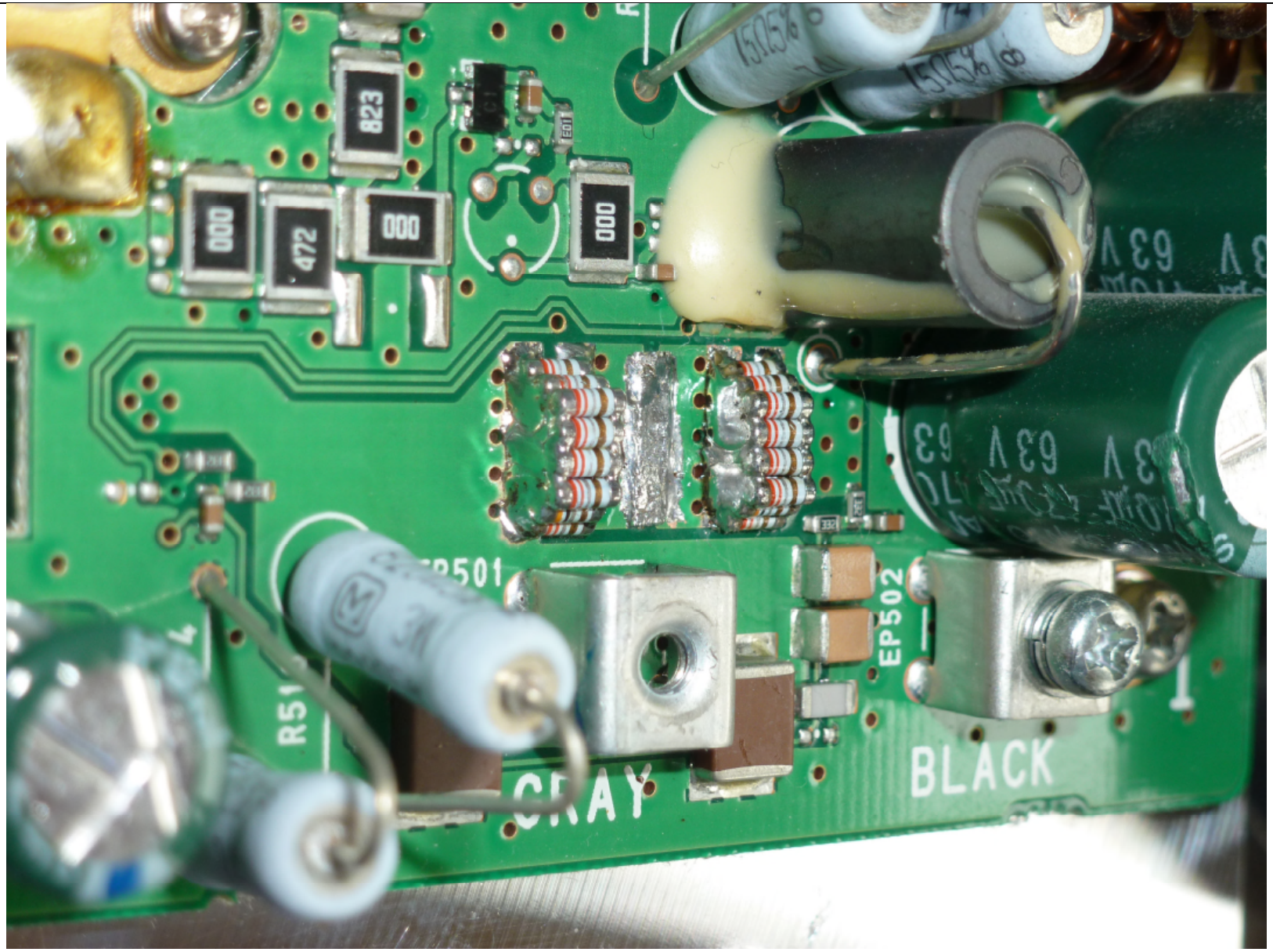
Preparation for soldering the MELF resistors (Part 2)



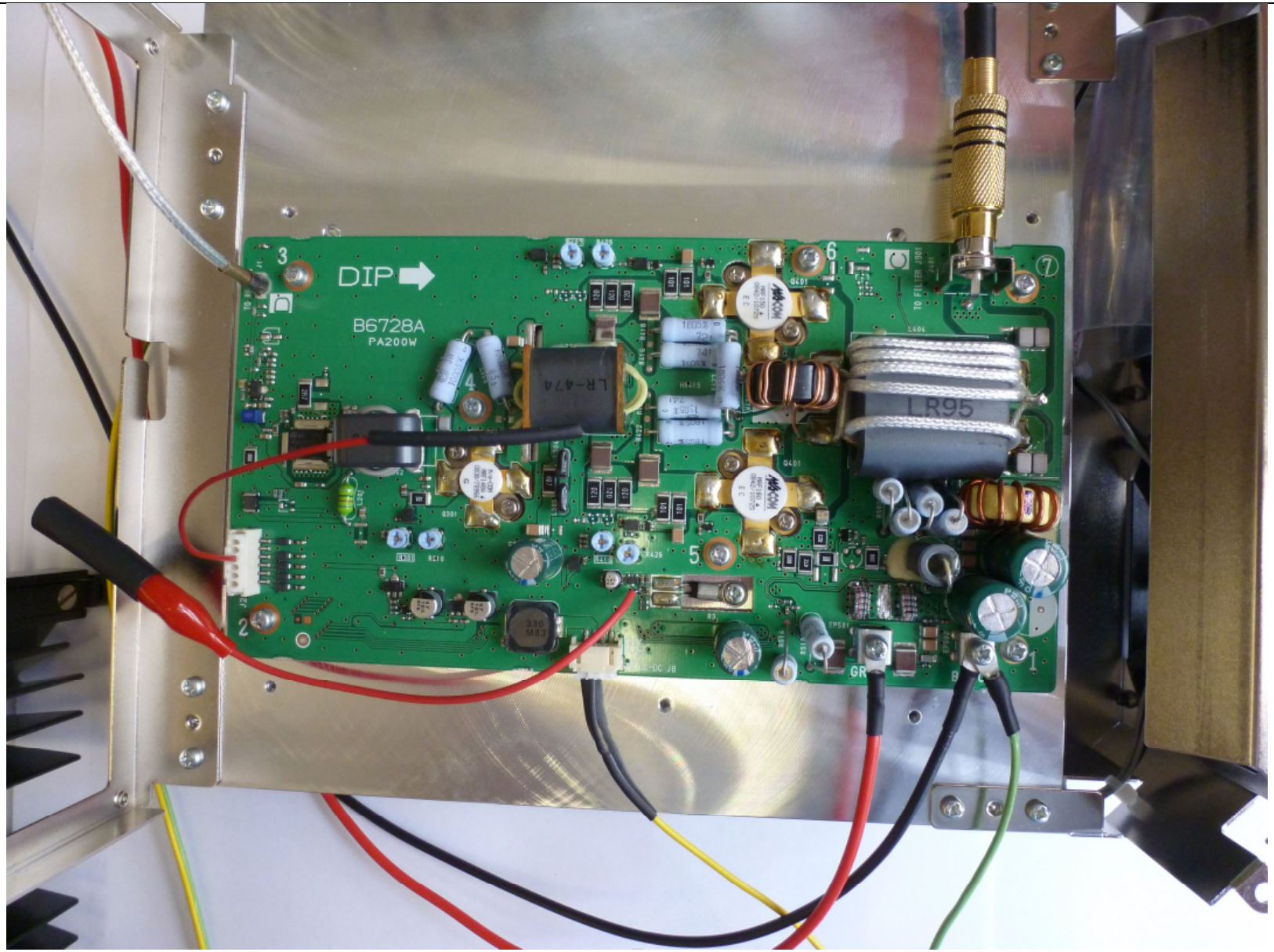
Preparation for soldering the MELF resistors (Part 3)



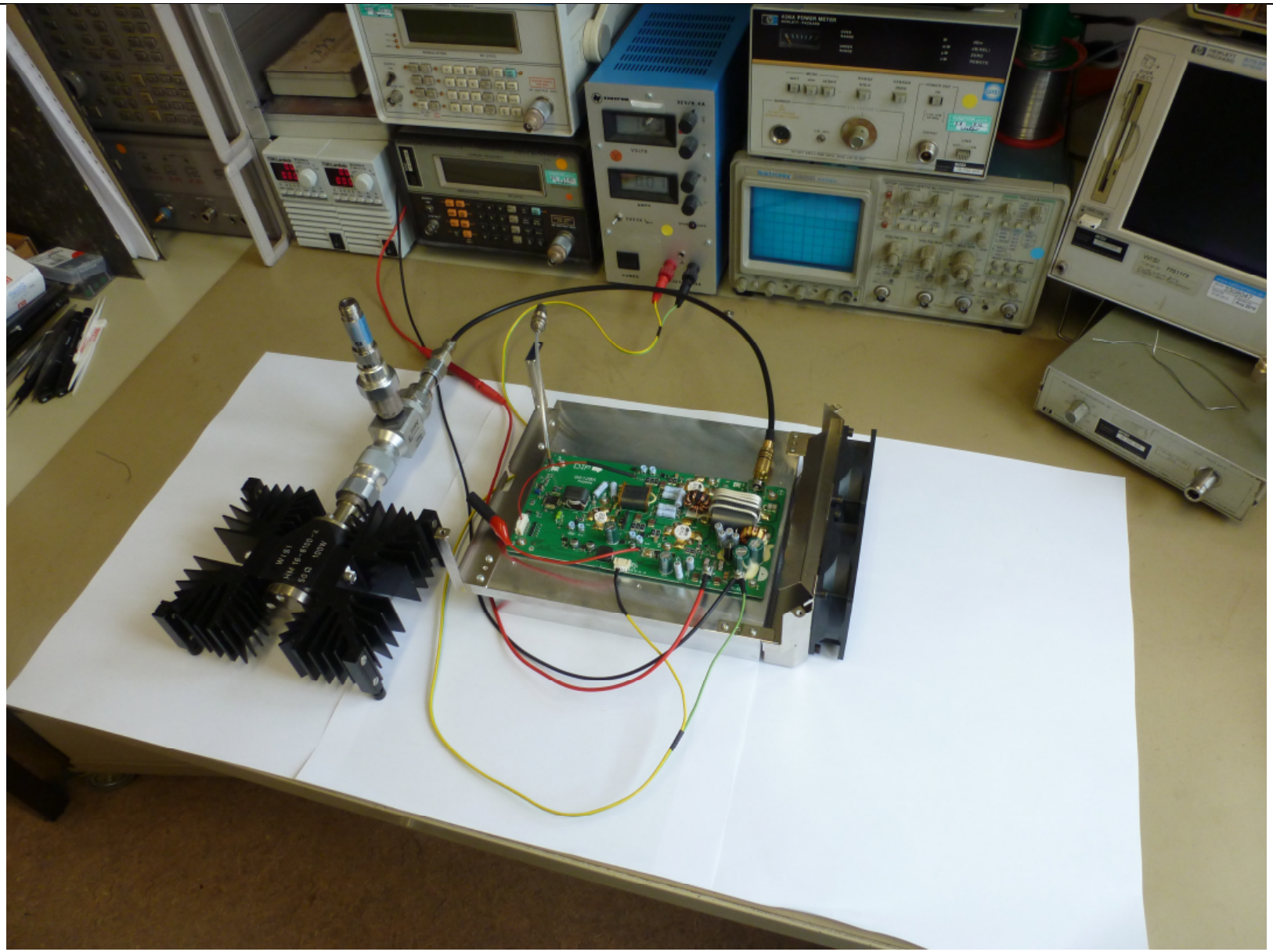
Left block is 14 x 220 mΩ + 1 x 300mΩ connect in parallel - and the right block the same –> add together = 29.9 mΩ



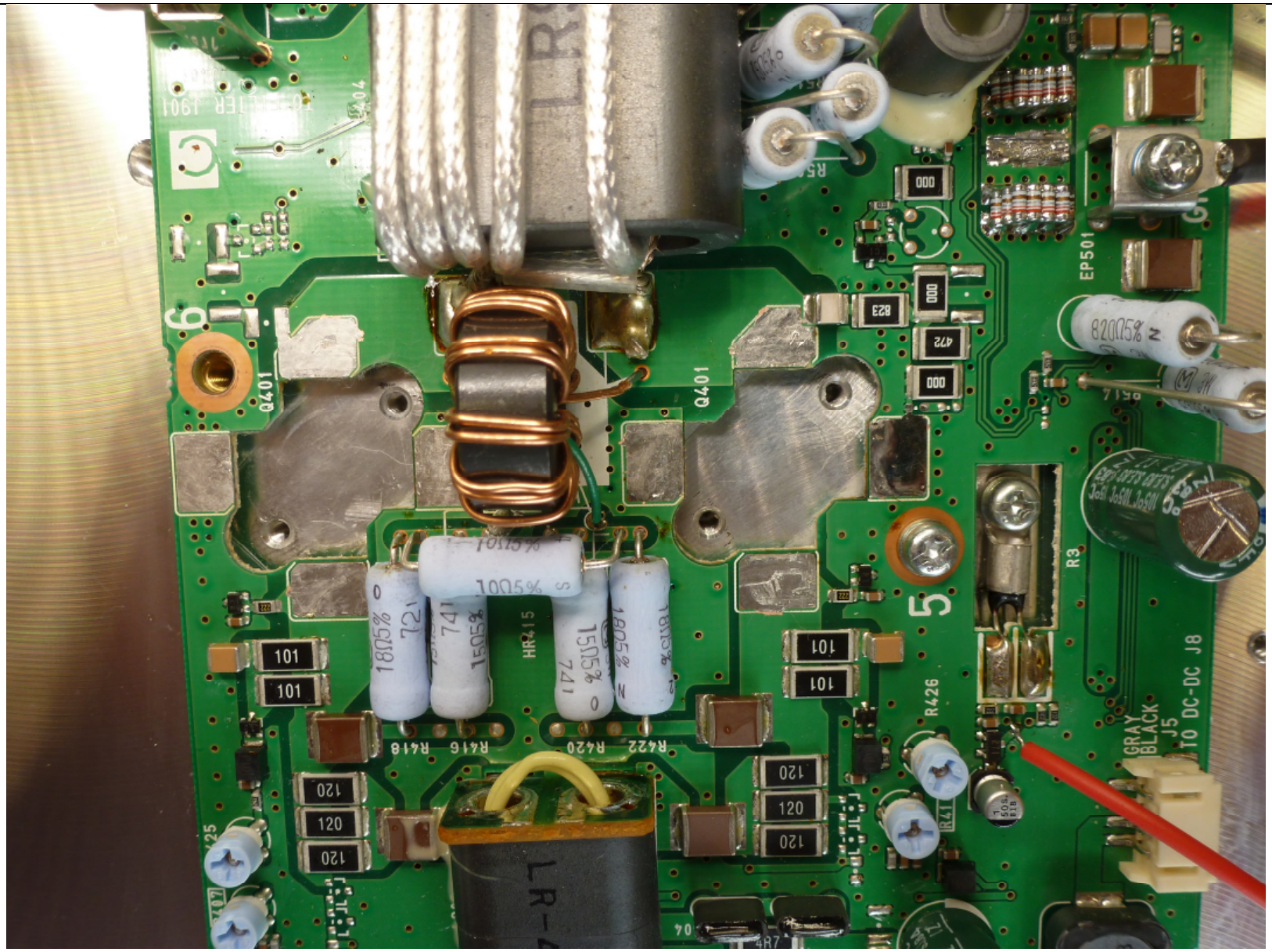
Side-face



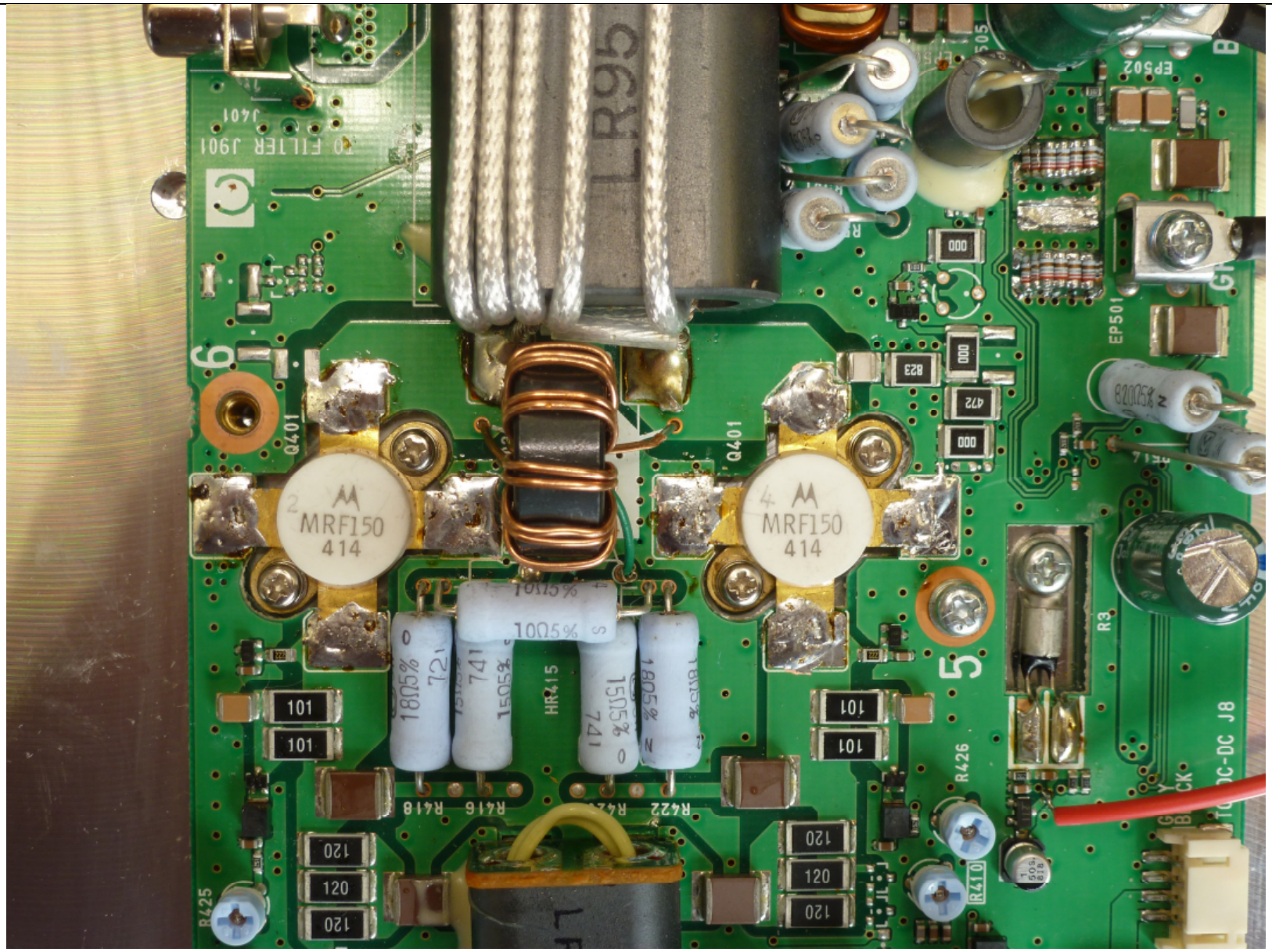
Preparation for testing the both main field-effect transistors



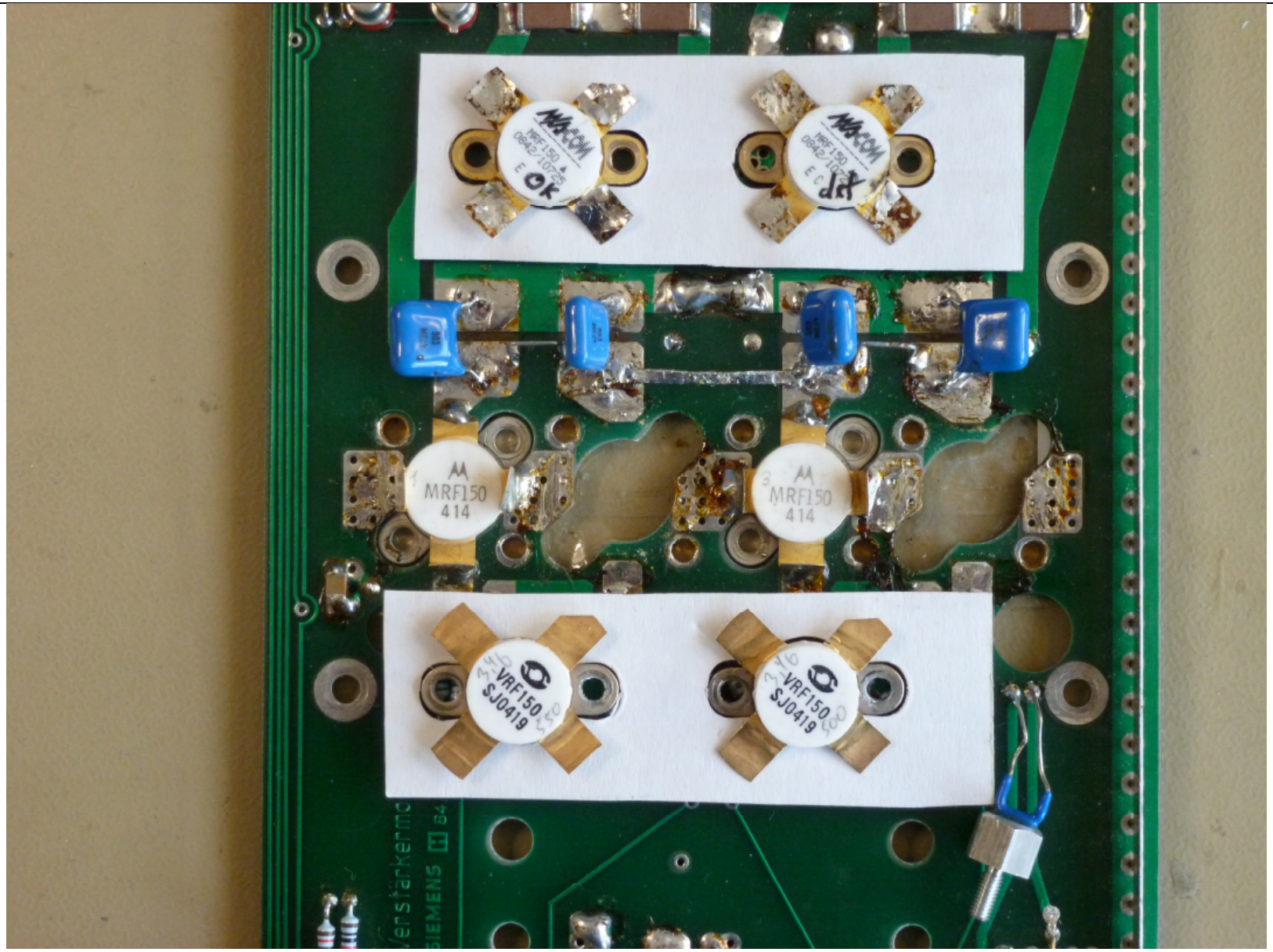
The left field-effect transistor is blowing



Preparation to replace a new pair of main field-effect transistors



View of the two Motorola MRF150 field-effect transistors from an old Siemens printed circuit board

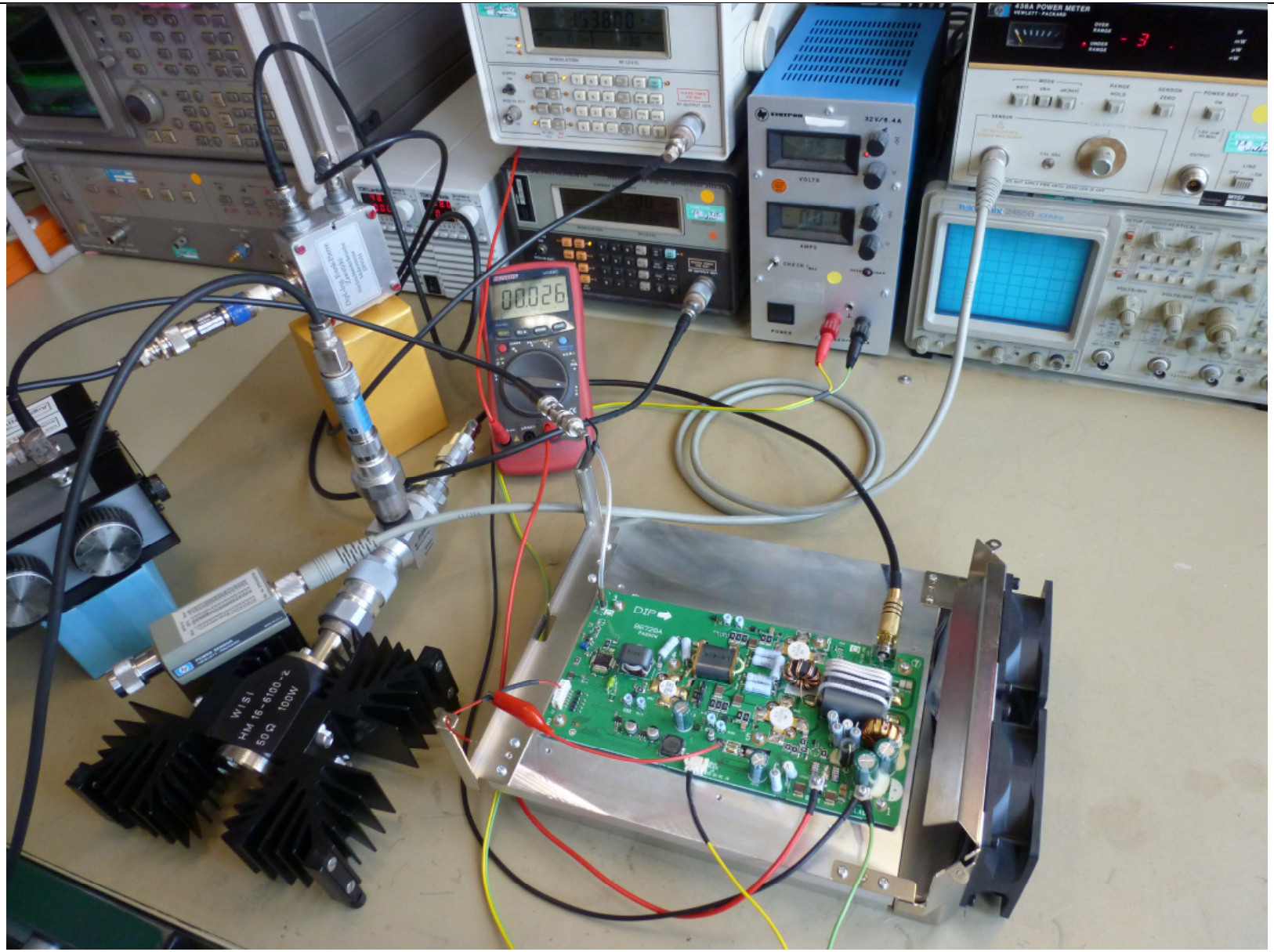


Only one of the MaCom`s is blowing - Old Siemens printed circuit board supplied a matched pair of MRF150 field-effect transistors

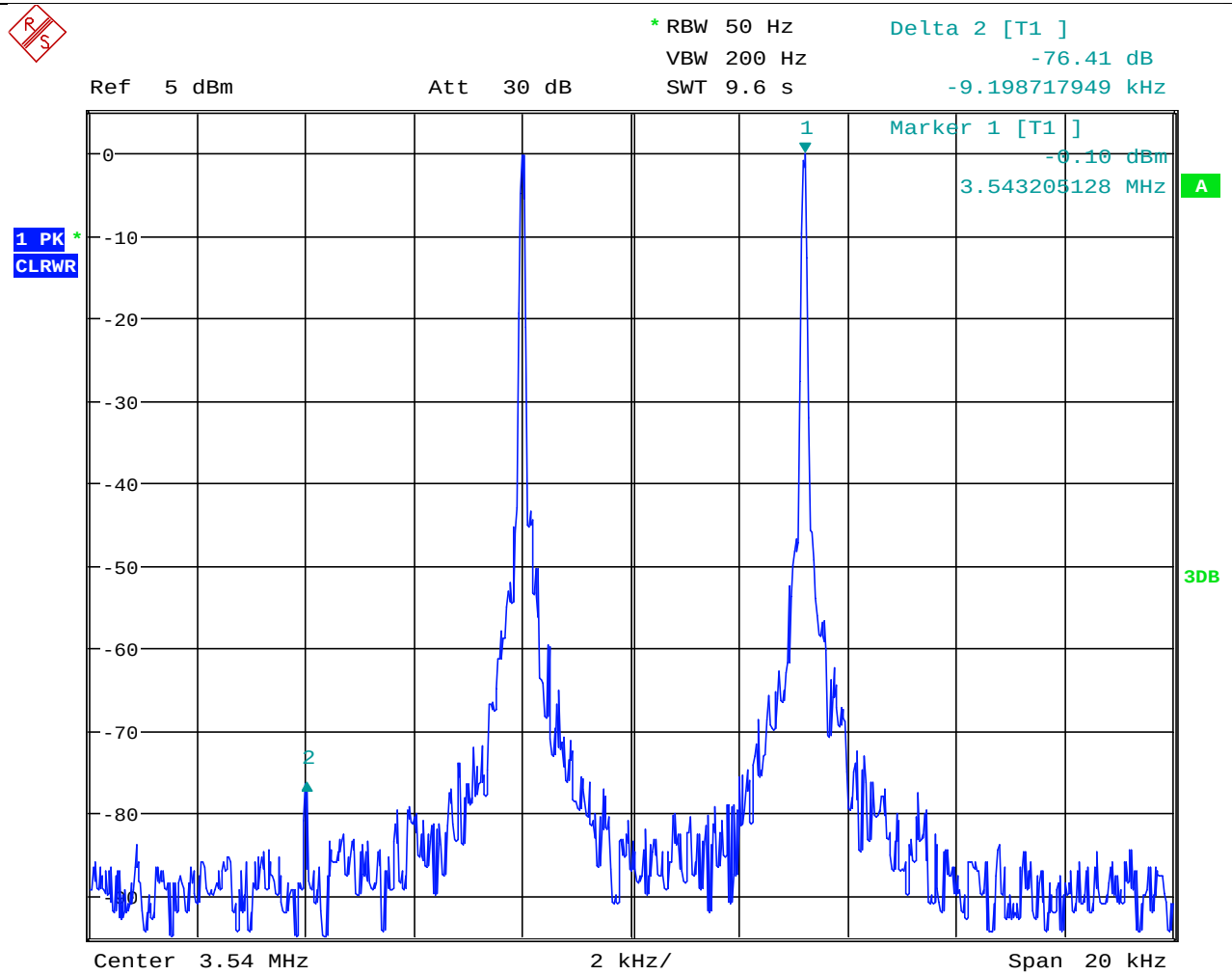
- *The other matched pair of VRF150 from Microsemi go into action when the Motorola´s are died*

Preparation for measurement the third order IMD

Measurement of the third order IMD

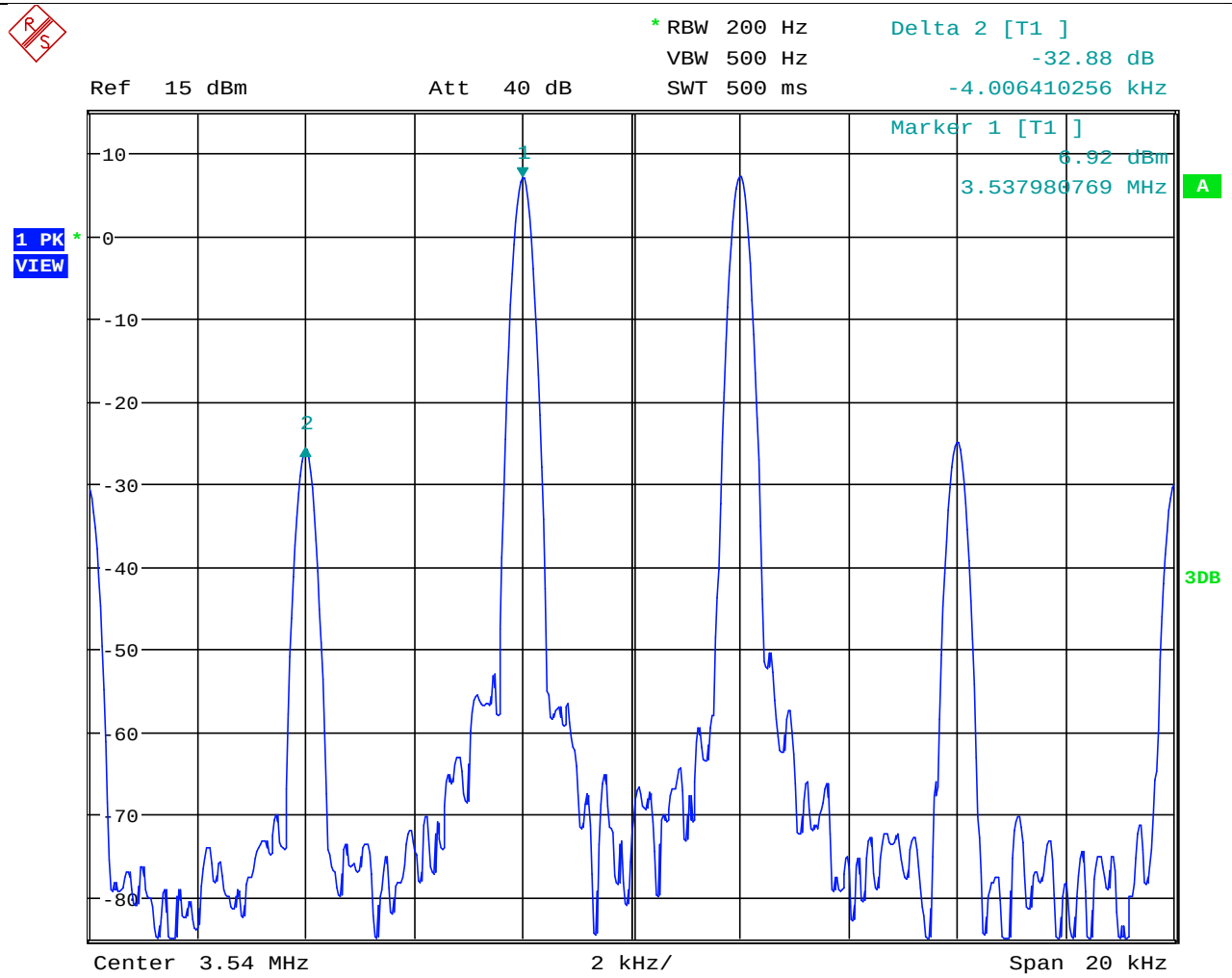


Amplifire Module Gain: 67 dB



Date: 31.JUL.2015 14:07:28

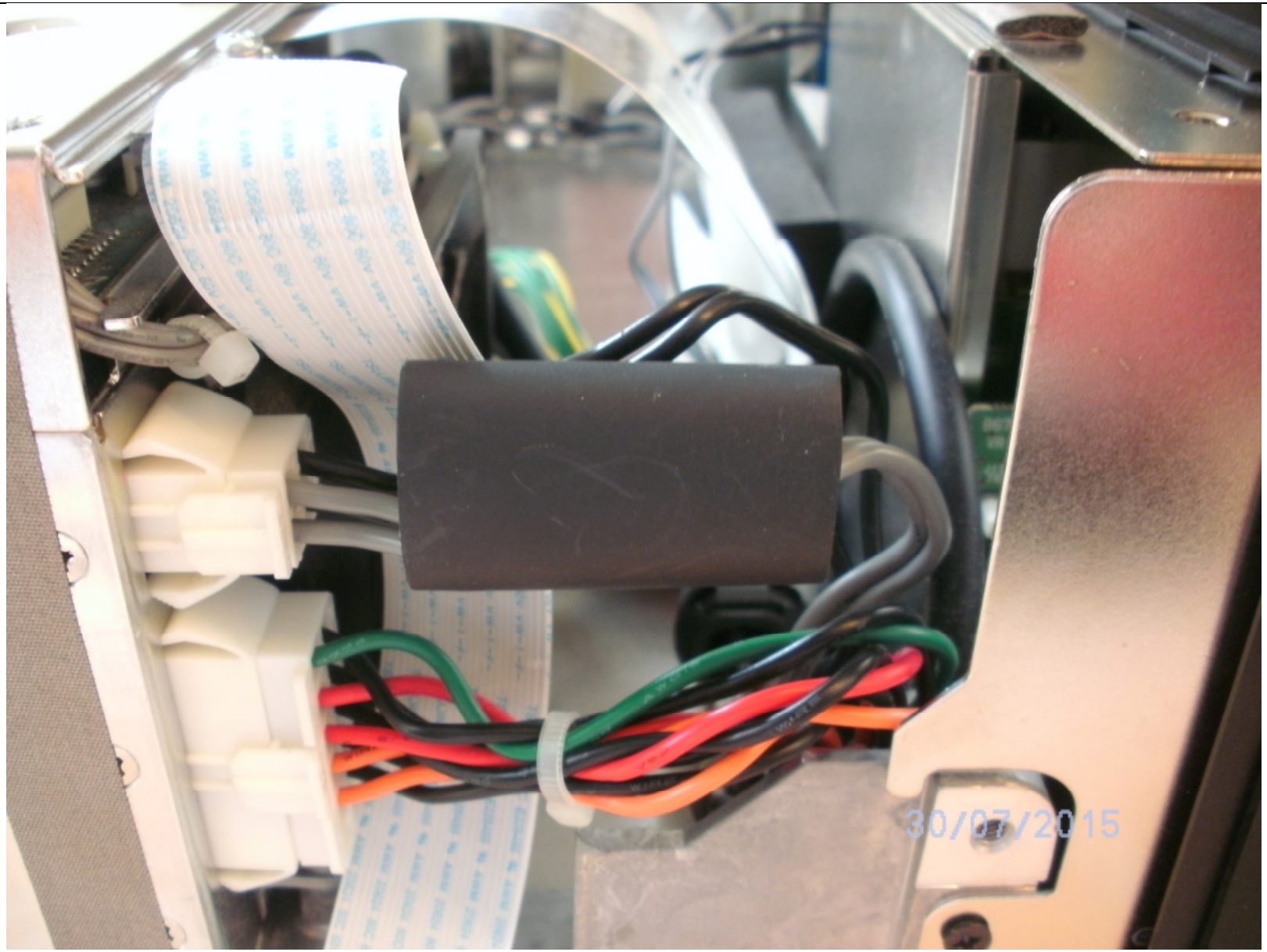
Amplifire Input: two times 0 dBm carriers – 20 dB step attenuator = -17dBm single tone input



Date: 31.JUL.2015 15:00:07

Amplifire Output: two times 7 dBm carriers + 40 dB directional coupler = 50 dBm single tone output (100 W)

Reinsert a low voltage fuse (20 A)



And add a isolation