

# Chinese Broadband Bias-T 10MHz-6GHz

Rev 1.0

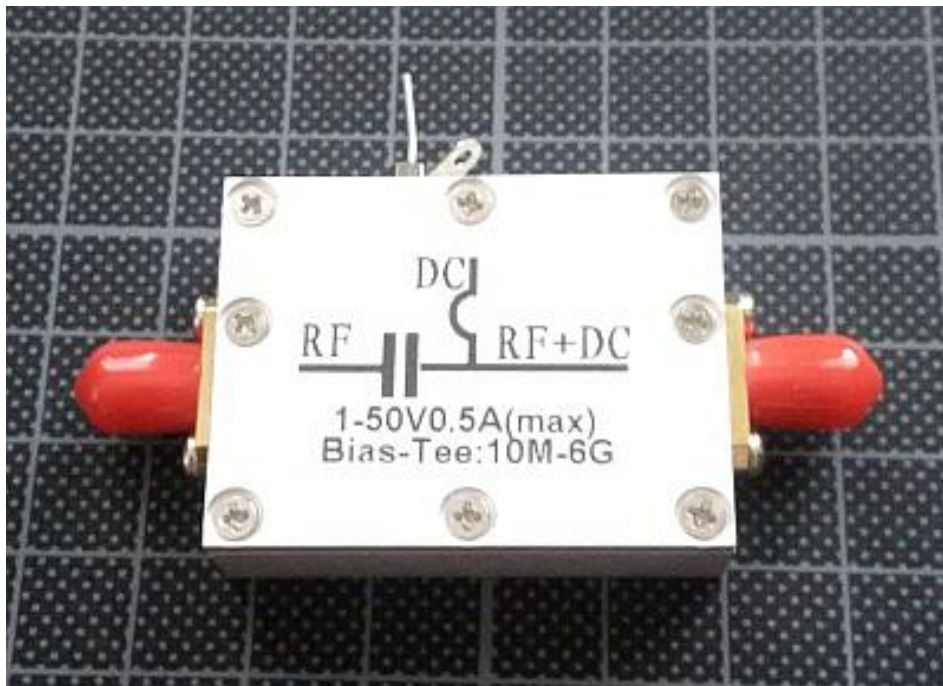
September 1<sup>st</sup> 2018

Matthias DD1US

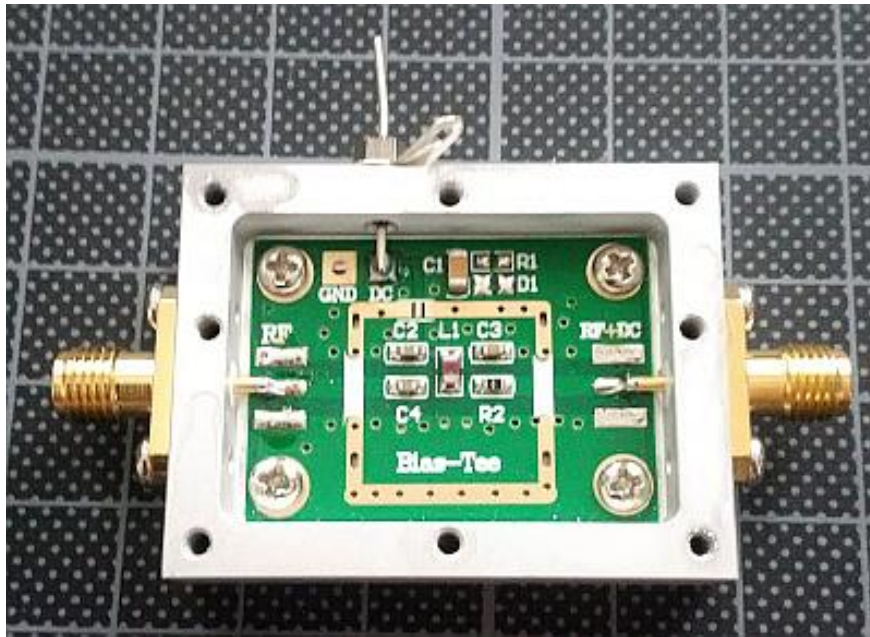
Hello,

Recently I bought a broadband Bias-T from a Chinese vendor. The Bias-T is mounted in a nice milled aluminium case and I was astonished that the price including shipping from China to Germany was less than 12 Euros. The Bias-T is advertised to cover a frequency range of 10MHz to 6GHz. It is specified to handle up to 50V and 500mA. No information was given with respect to the insertion loss.

The dimensions of the Bias-T are 7cm x 4.5cm x 1.2cm. Here are some pictures of the Bias-T:

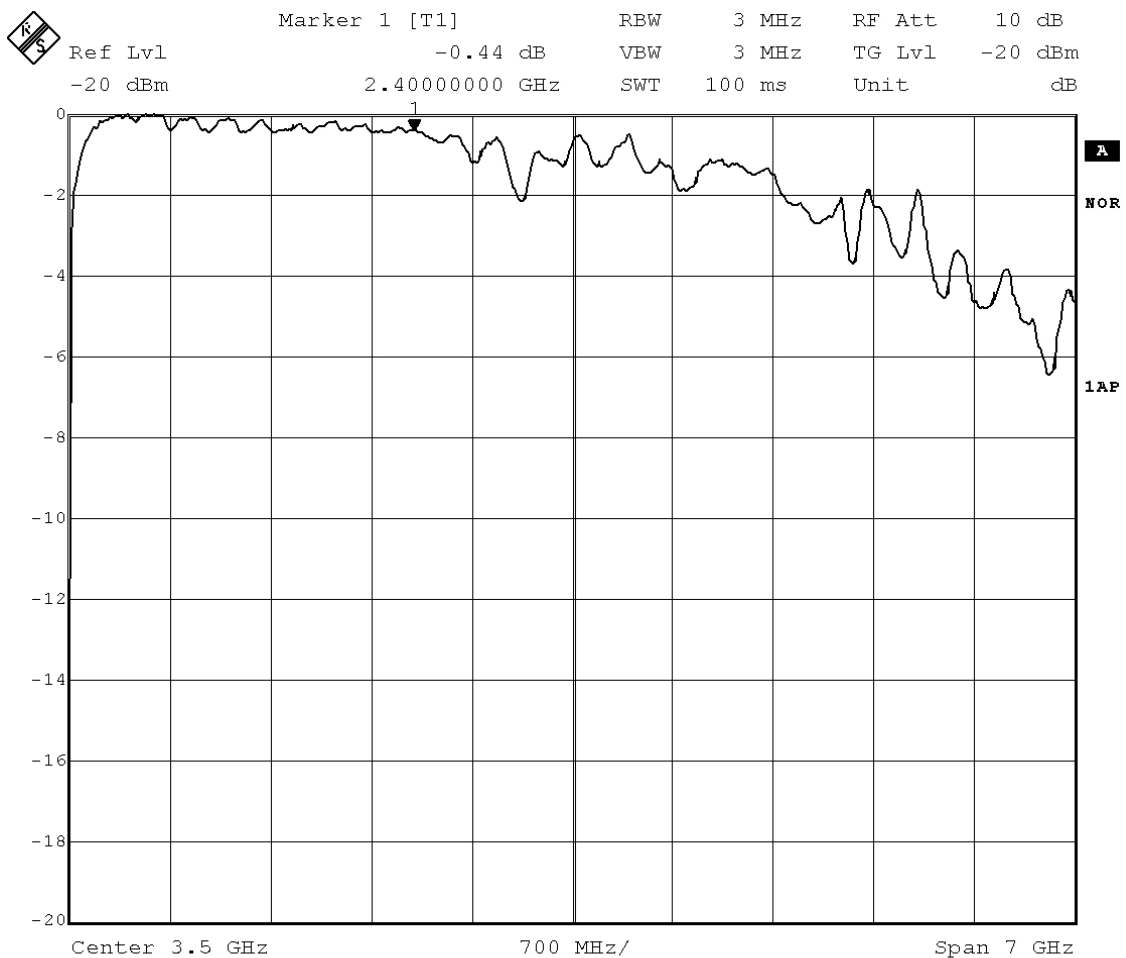


Next, I opened the encasing wo see what is inside.



The same Bias-T PCB without the aluminium encasing can be purchased on Ebay for 3,30 Euros. However, I think that the nice shielded encasing is worth the additional cost.

Next, I measured the insertion loss in the frequency range from DC to 7 GHz:



Date: 1.SEP.2018 14:03:28

As can be seen the insertion loss stays better than 0.5dB up to approximately 2.5 GHz. At 6 GHz the insertion loss is approximately 5dB which is too much in my applications. I recommend to use this Bias-T in the frequency range 50 MHz to 3 GHz.

I always appreciate feedback. Please send it to the Email address below.

Best regards

Matthias DD1US

Email: [DD1US@AMSAT.ORG](mailto:DD1US@AMSAT.ORG)

Homepage: <http://www.dd1us.de>