

Antenna Multi-coupler

I published an article in the June 2025 publication of Practical Wireless Magazine.

Electronic viewing of the magazine, as part of a subscription, is here:
<https://pocketmags.com/eu/practical-wireless-magazine>

As necessitated by space constraints the photos in the article might be a little small to be of any use for some readers.

So here are each of the graphics and photographs in high resolution.

Samuel

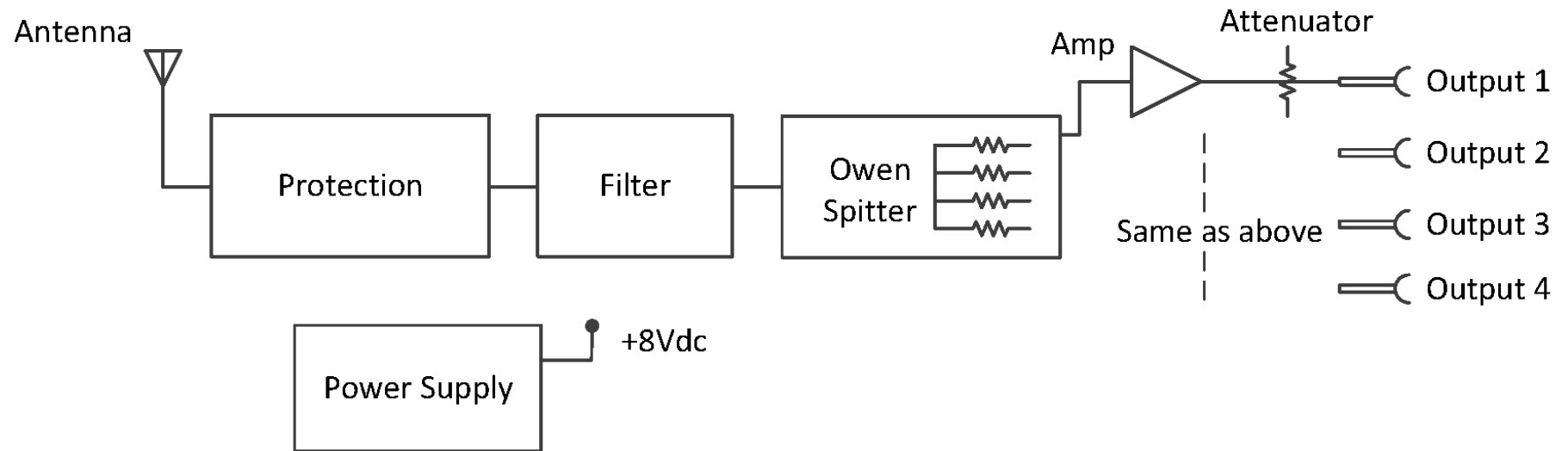


Figure 1. Block diagram of distribution amplifier

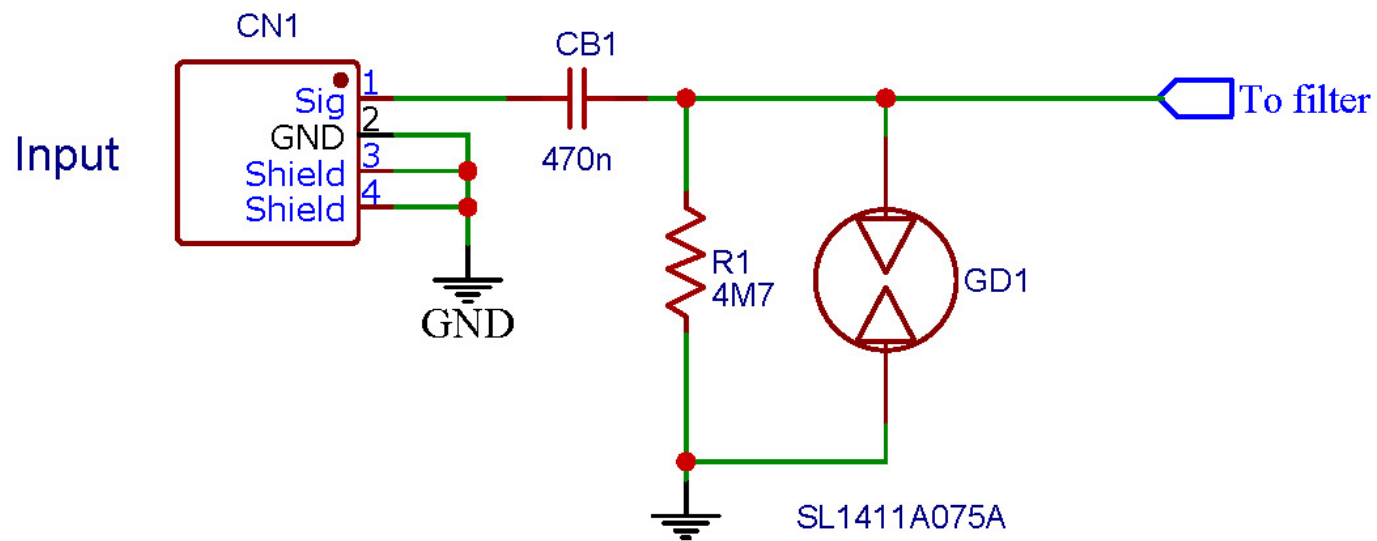


Figure 2. Front end protection

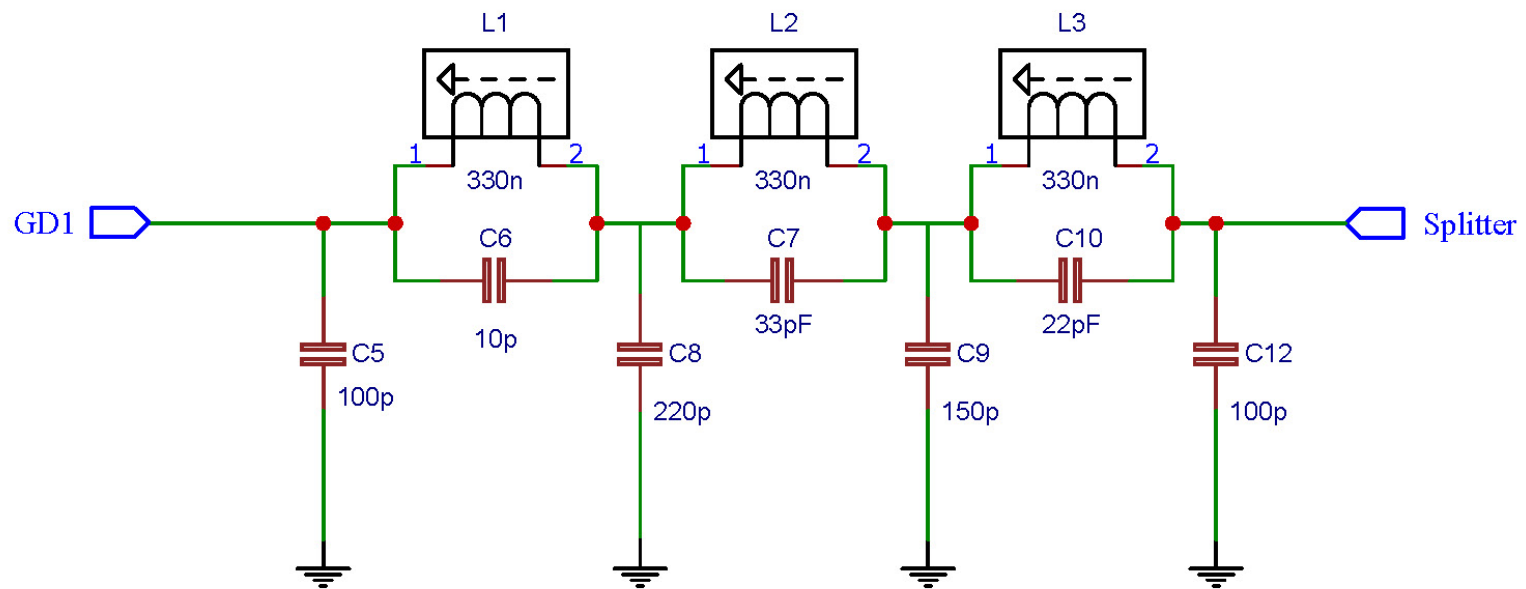


Figure 3. 7th order elliptic low pass filter

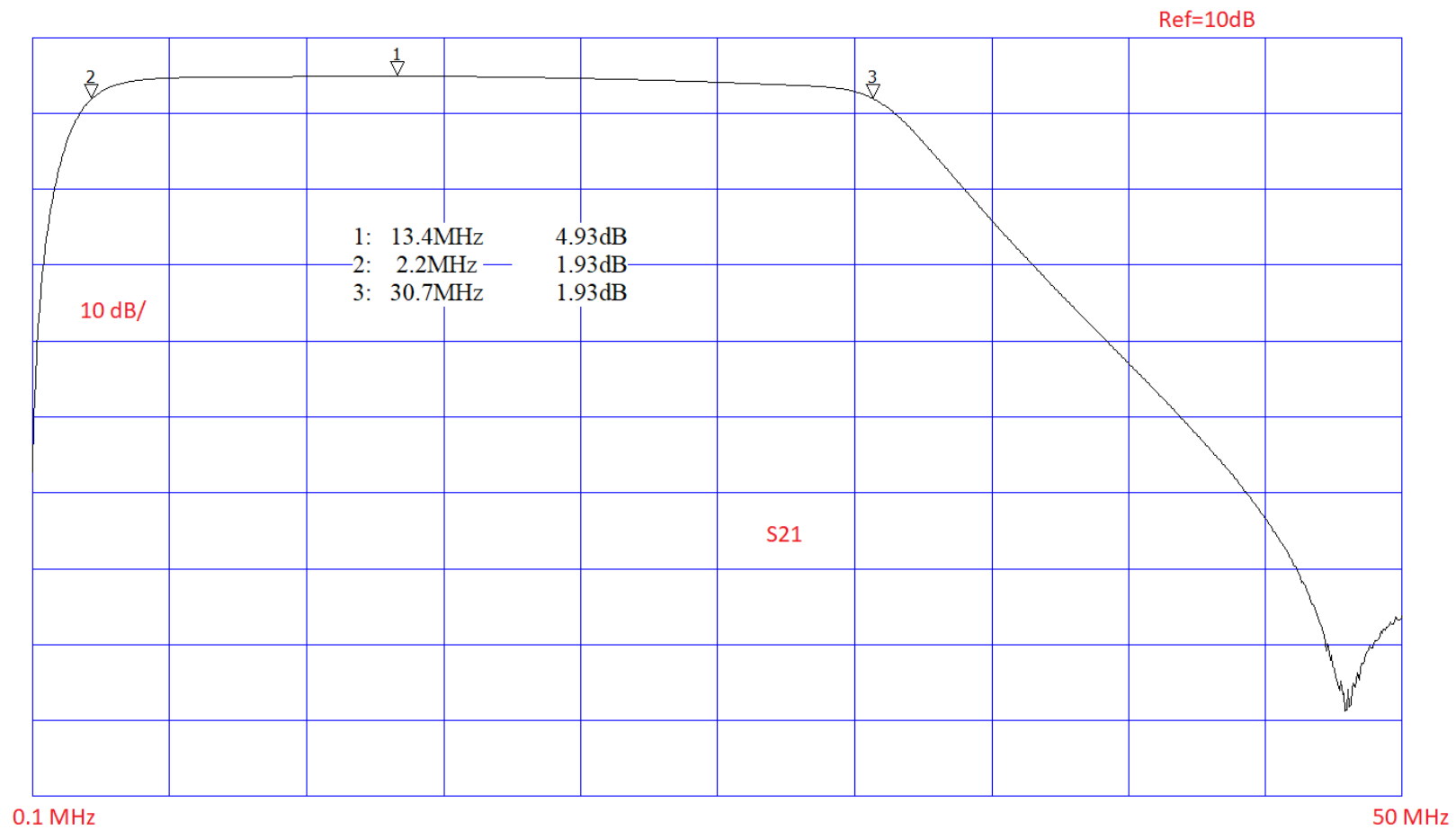


Figure 4. HF filter characteristic

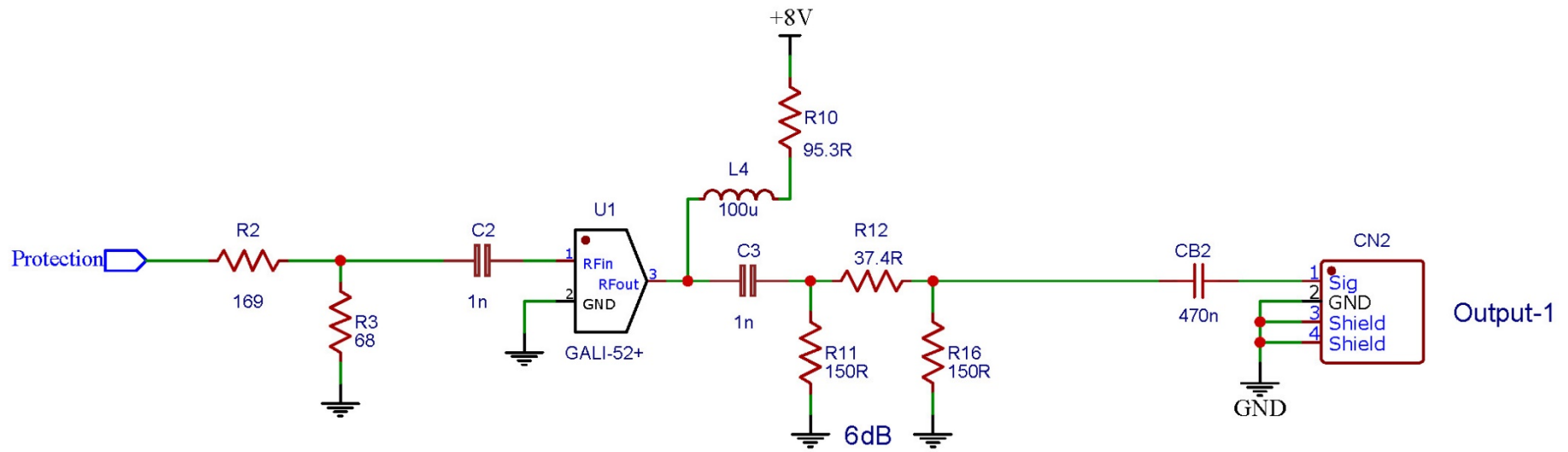


Figure 5. Amplifier and attenuator

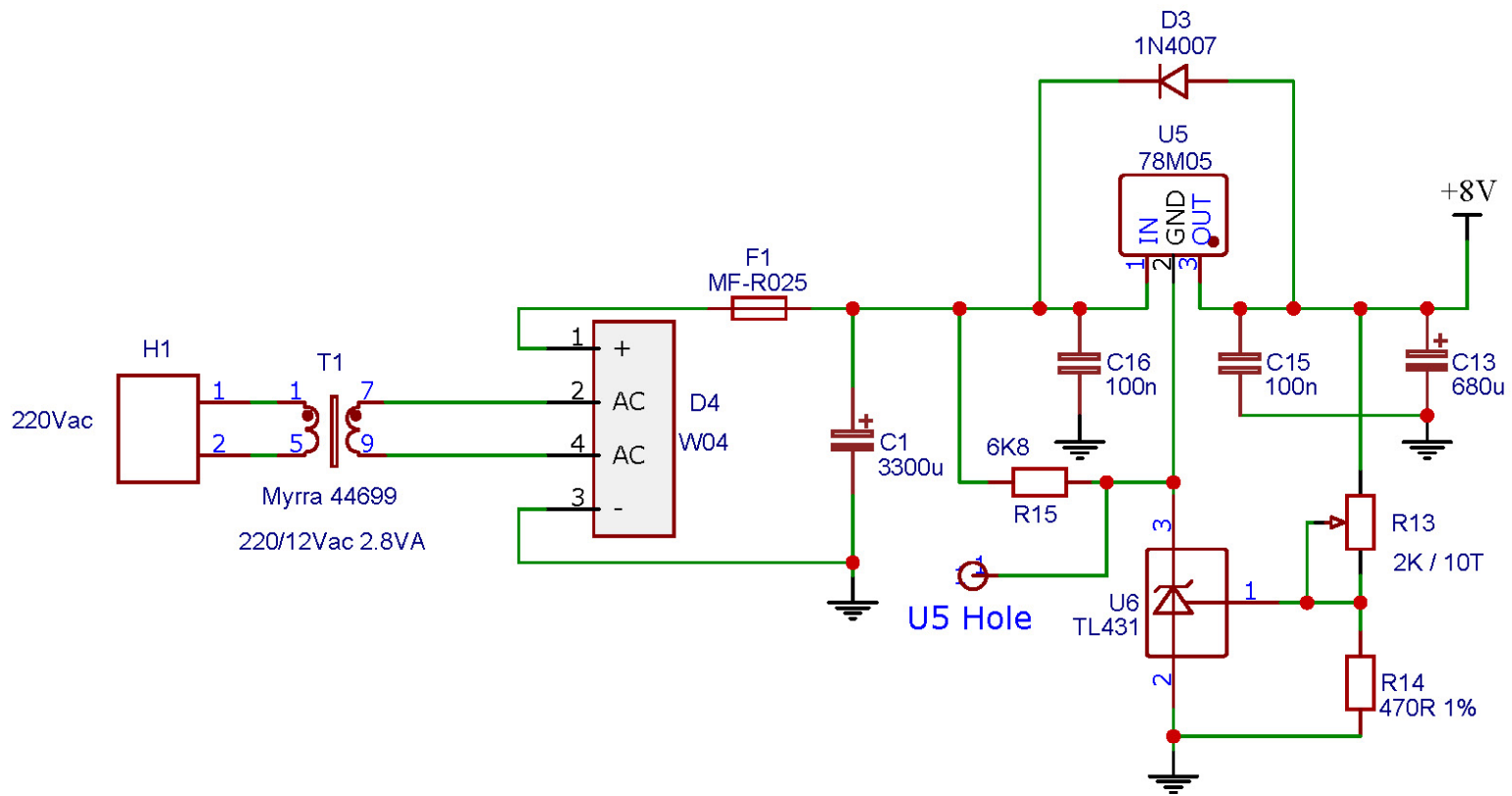


Figure 6. Power supply schematic

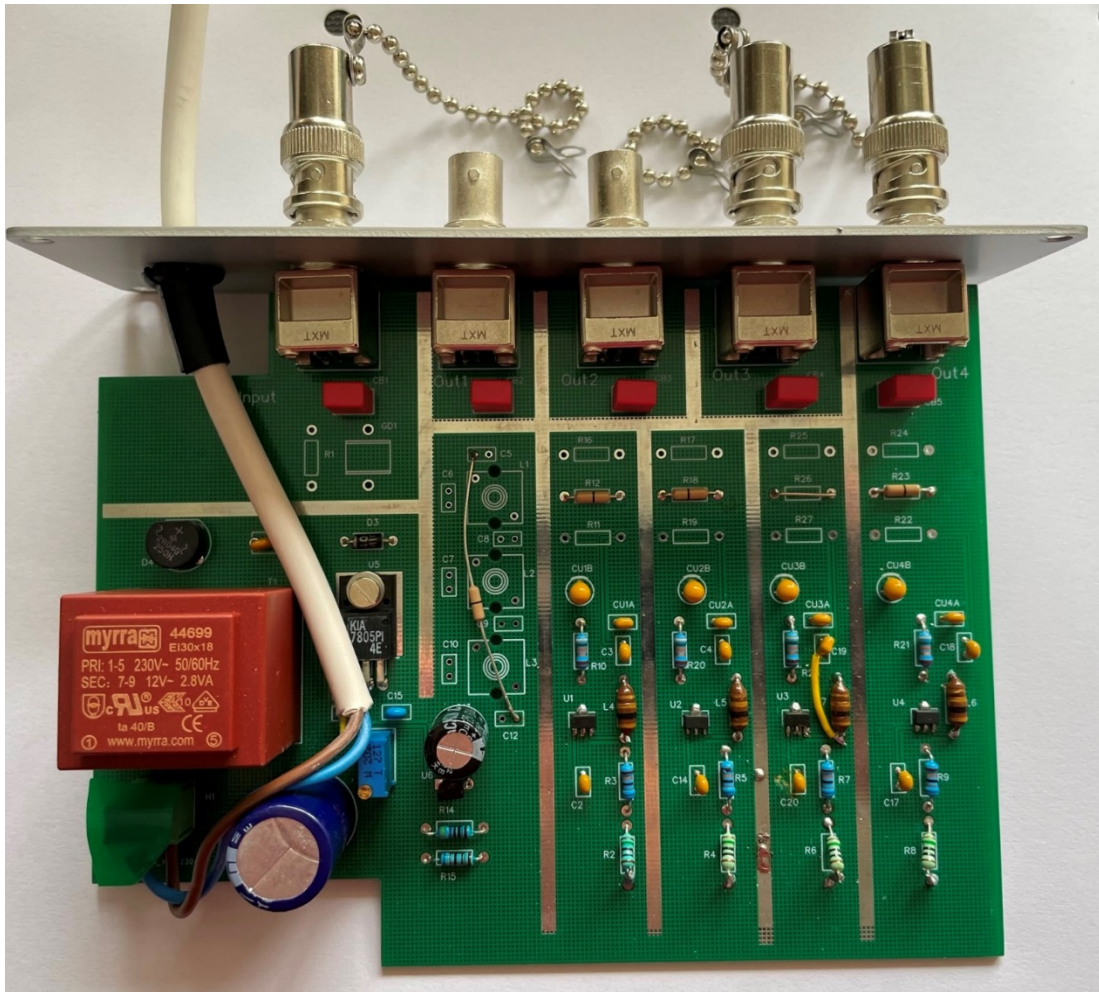


Figure 7. Top view of mostly populated PCB



Figure 8. Front and back view of the enclosure

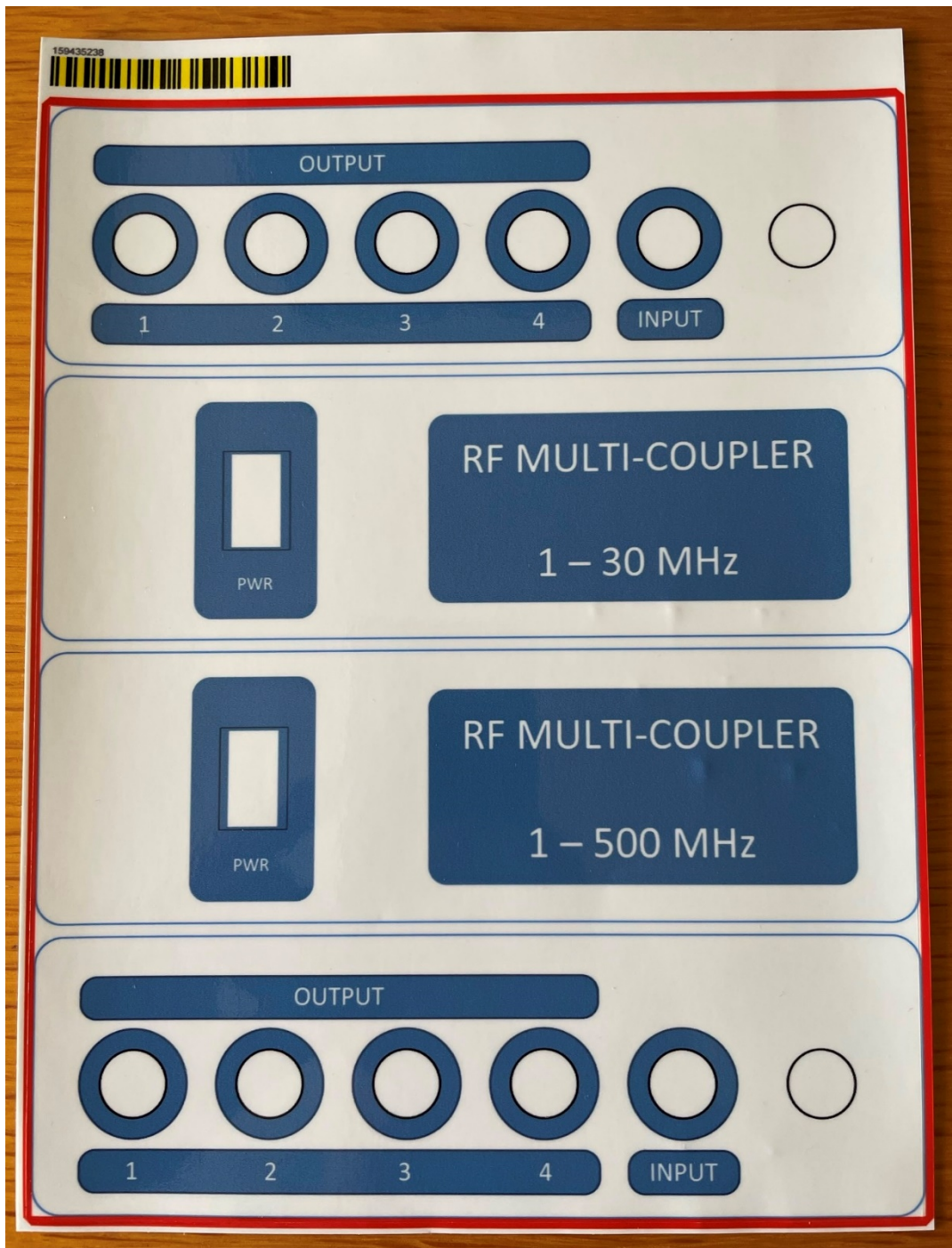


Figure 9. Decals before cutting up

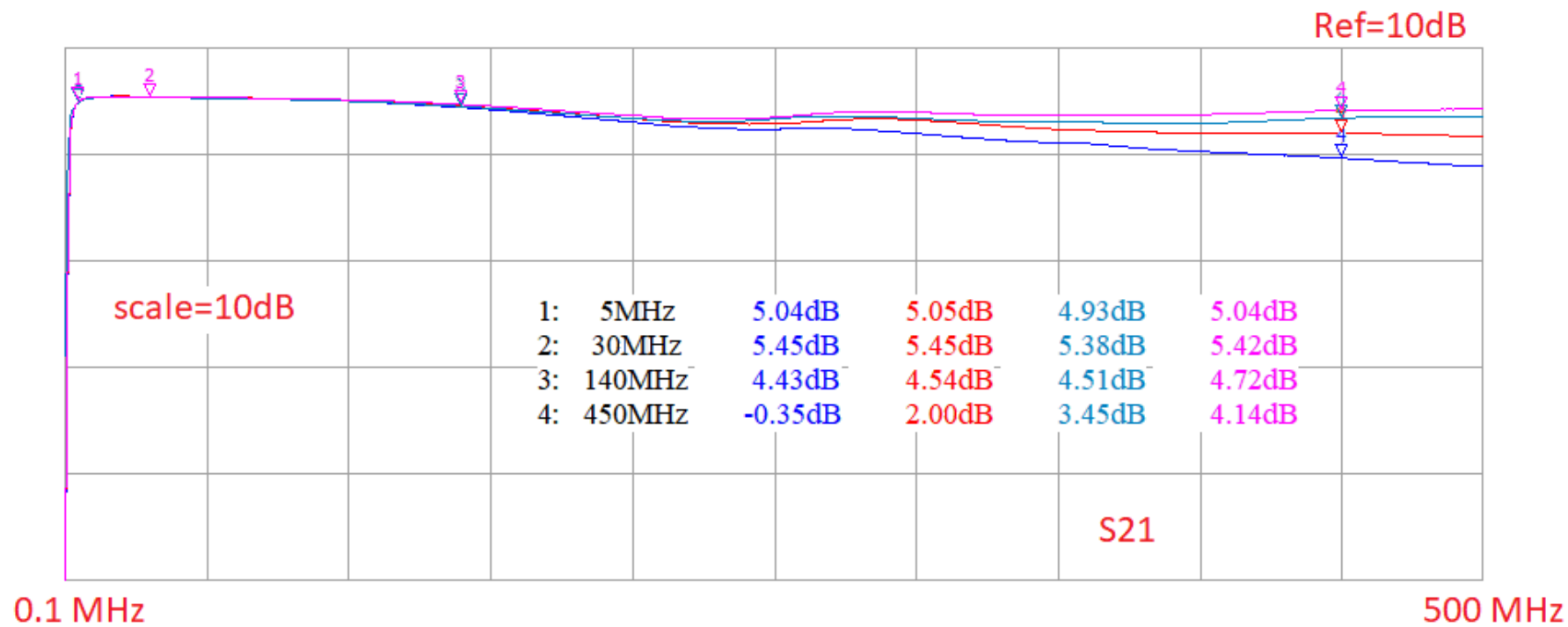


Figure 10. Transmission coefficient - S21

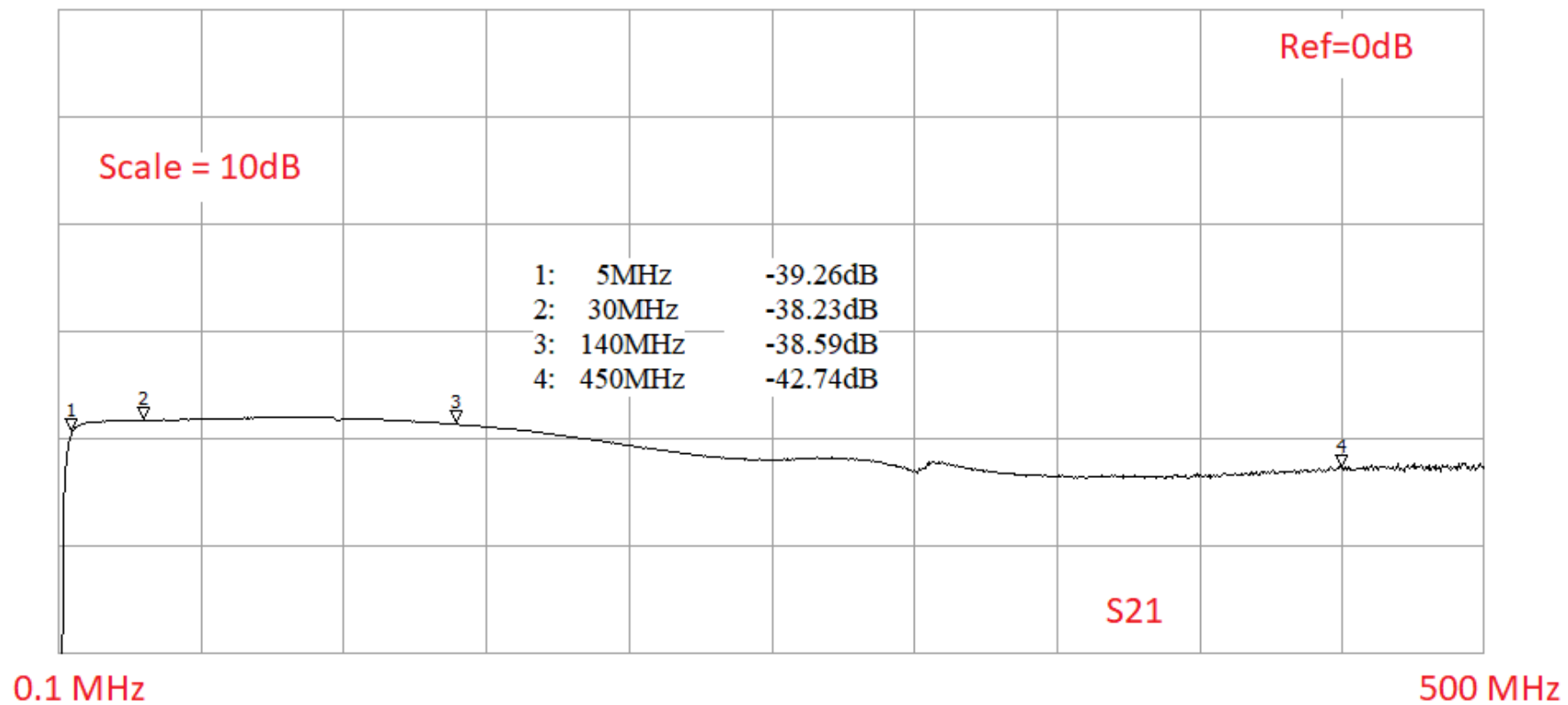


Figure 11. Isolation between output ports

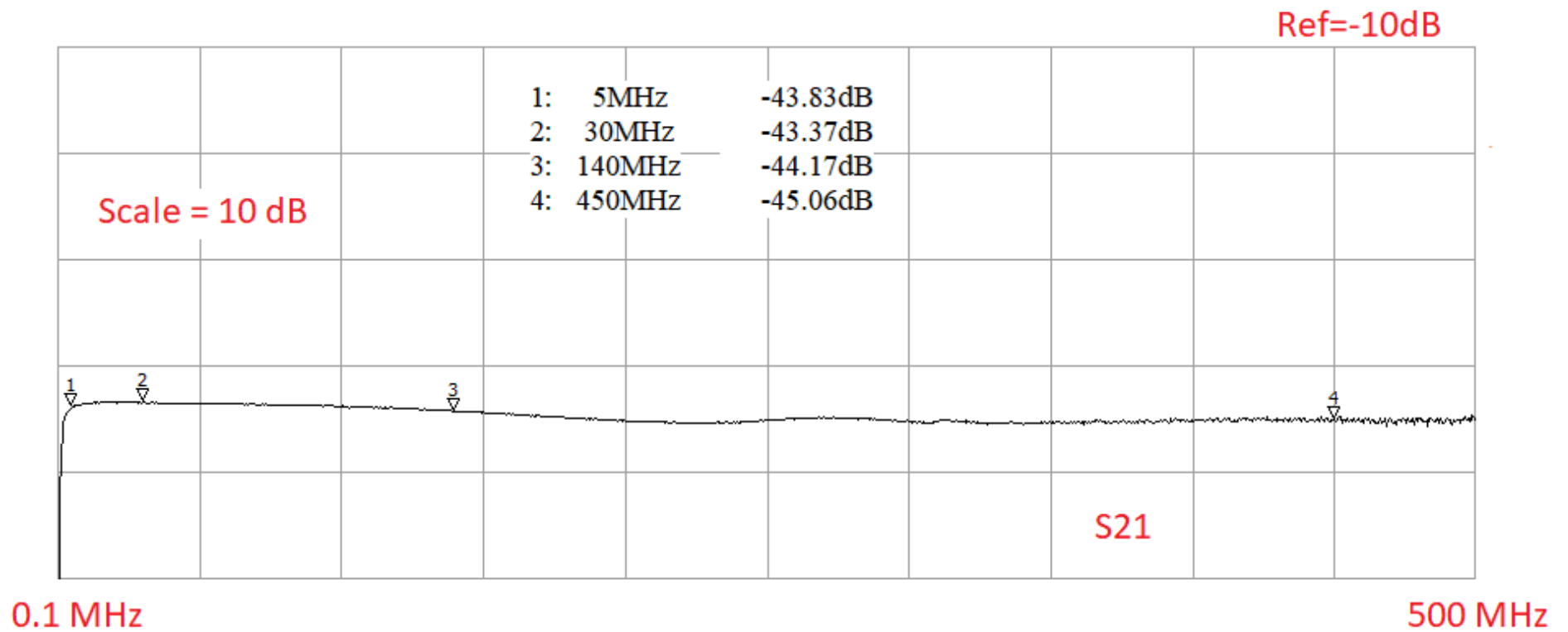


Figure 12. Isolation between output and input ports.

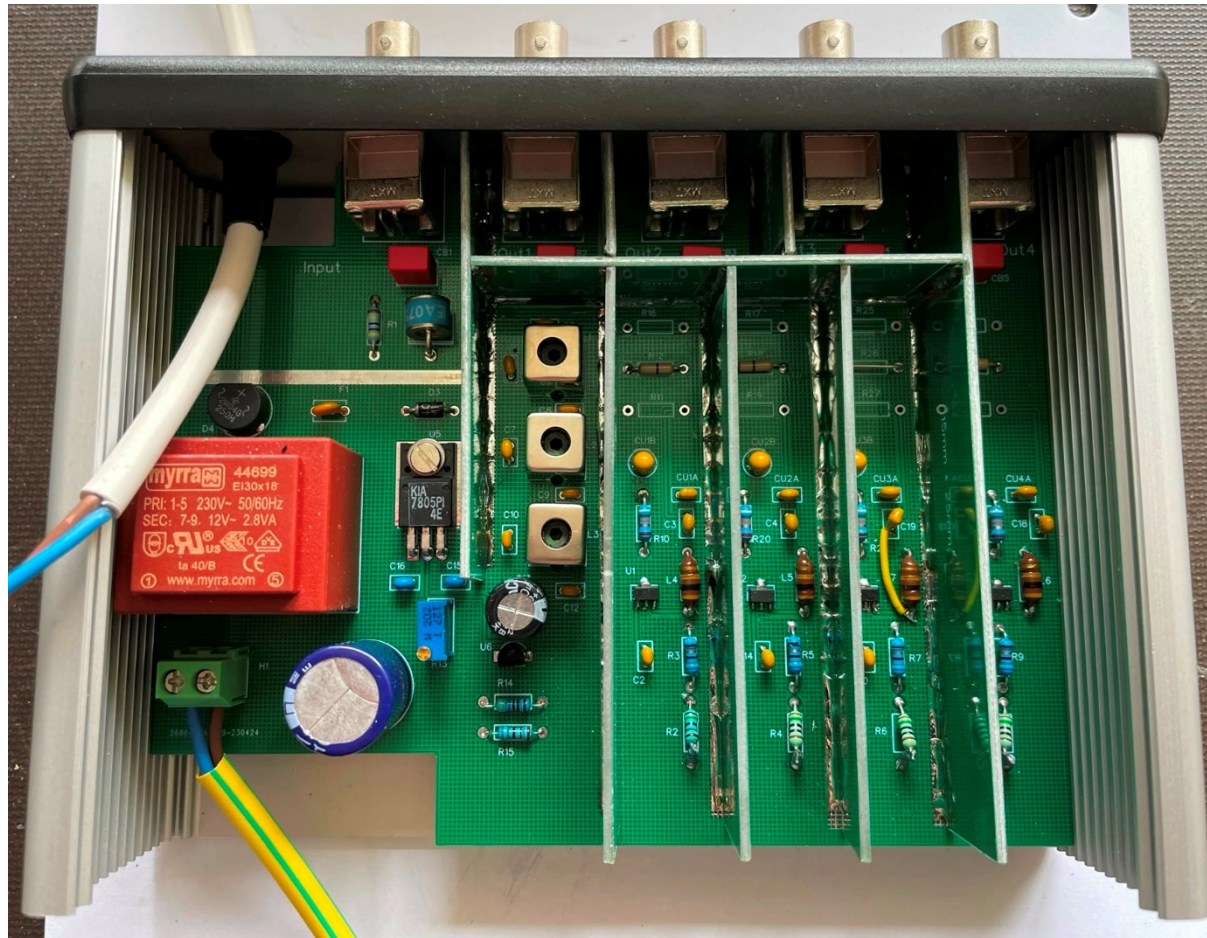


Figure 13. PCB with shielding added

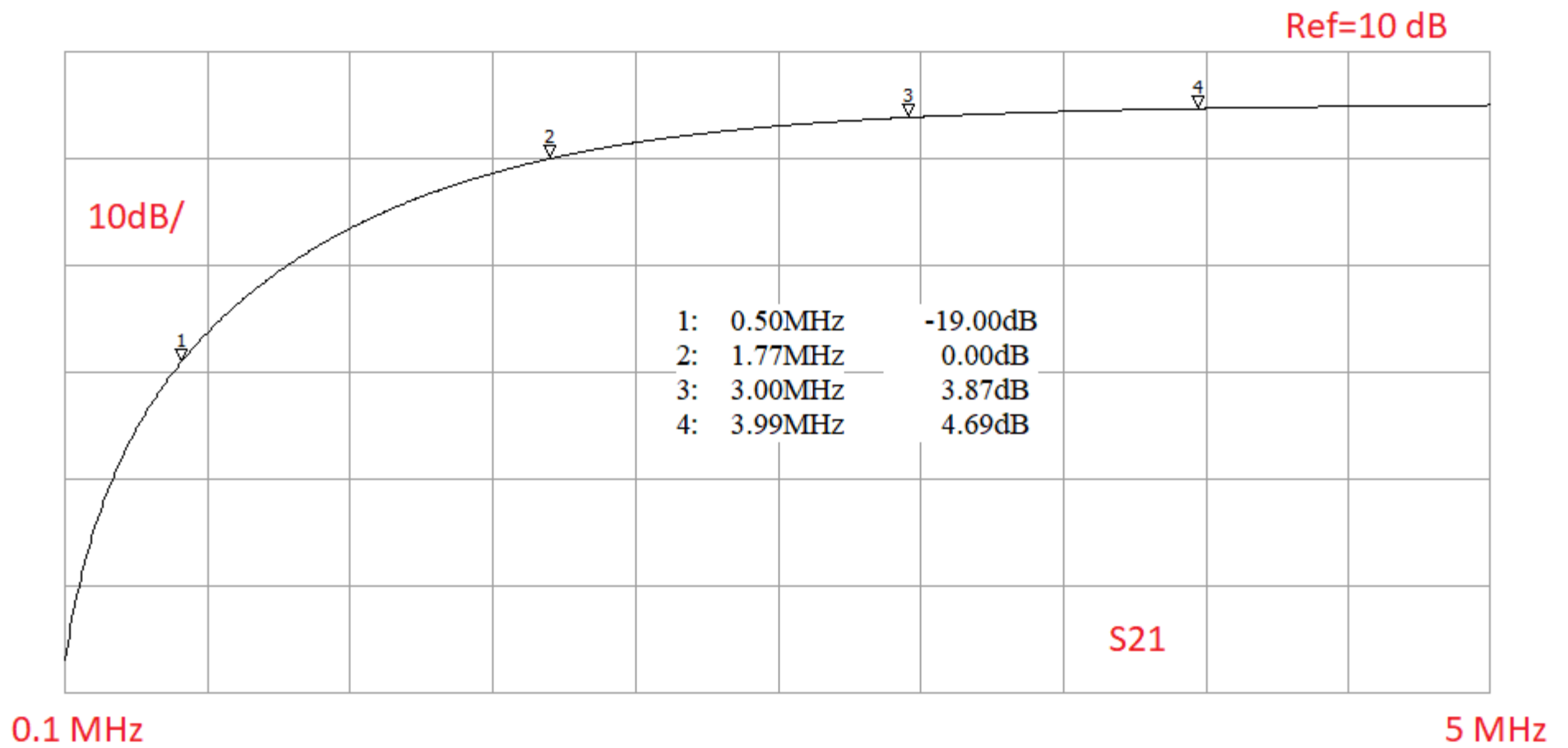


Figure 14. Low Frequency Performance.

Ends