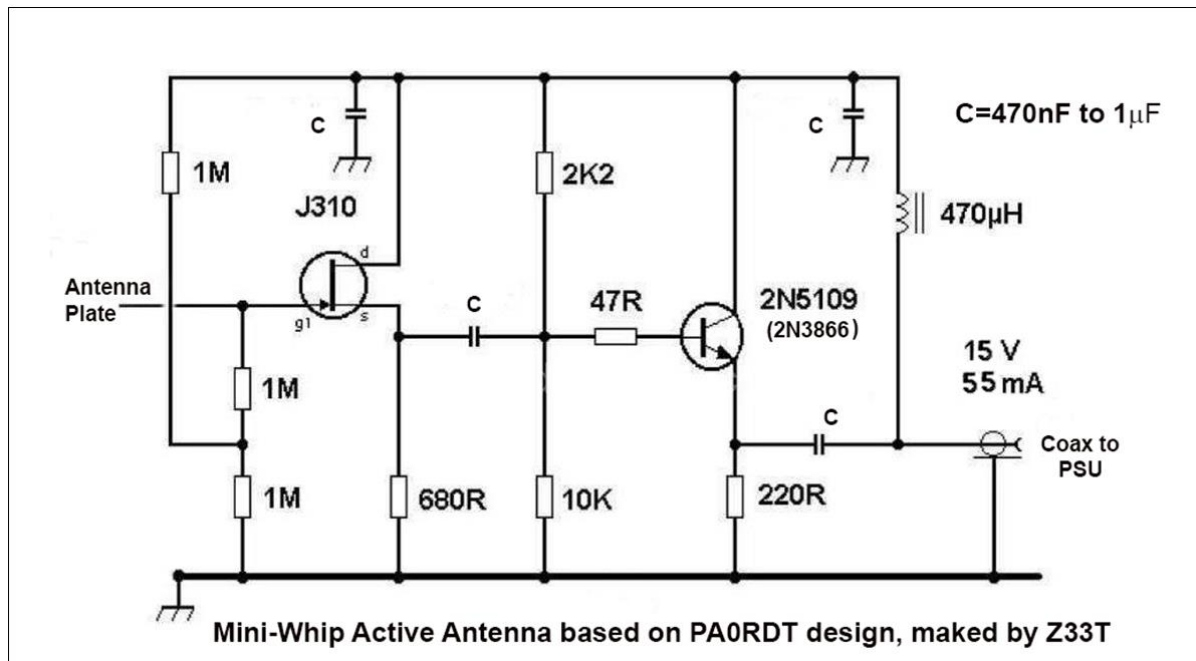
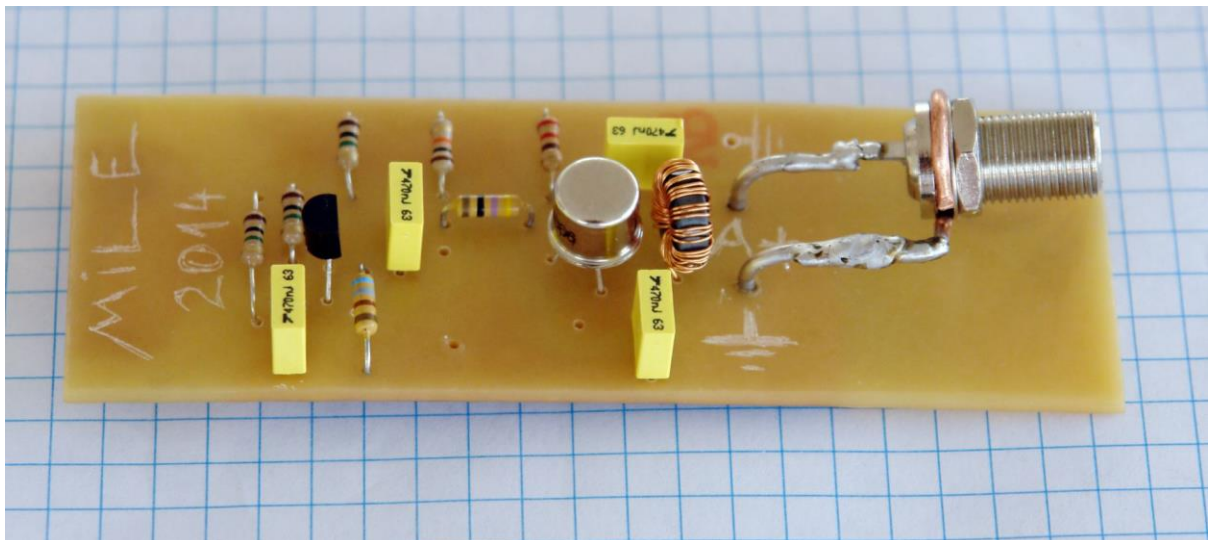
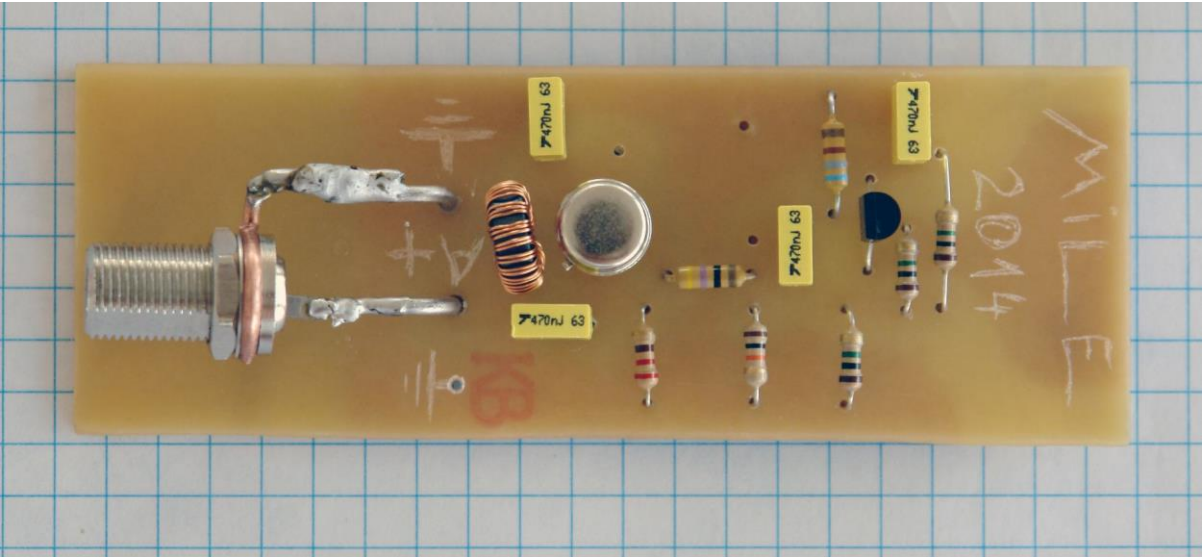


MINI-WHIP Active RX Antenna for 10 kHz – 30 MHz



Excellent DIY Receiving Antena for VLF up to 20 MHz. My Mini-Whip active antennas are based on PA0RDT design with minor modifications.

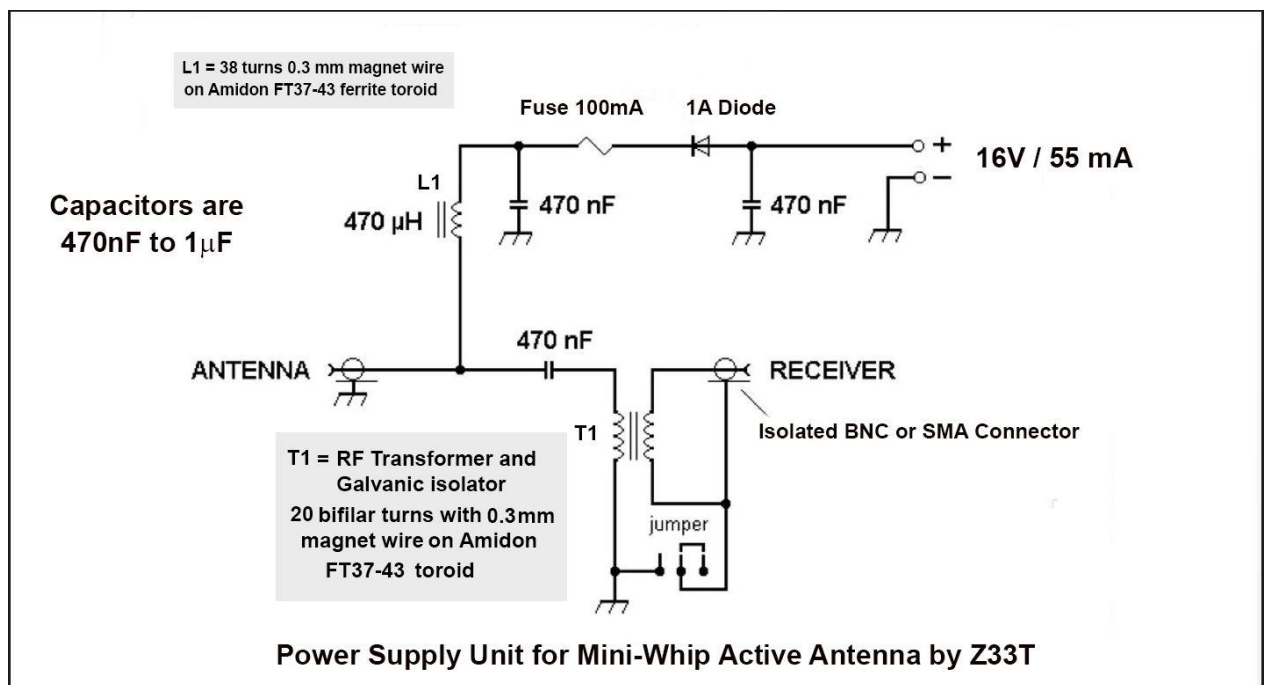




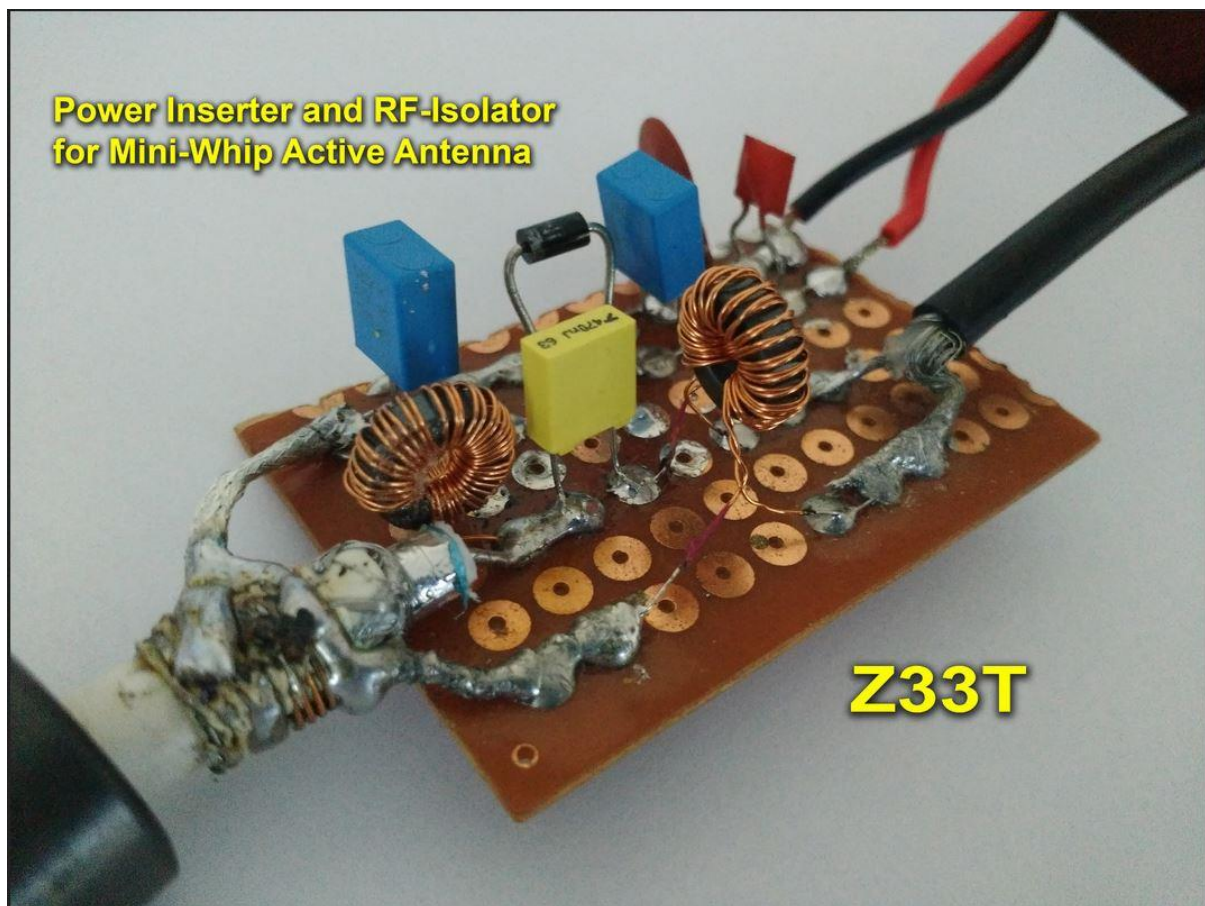
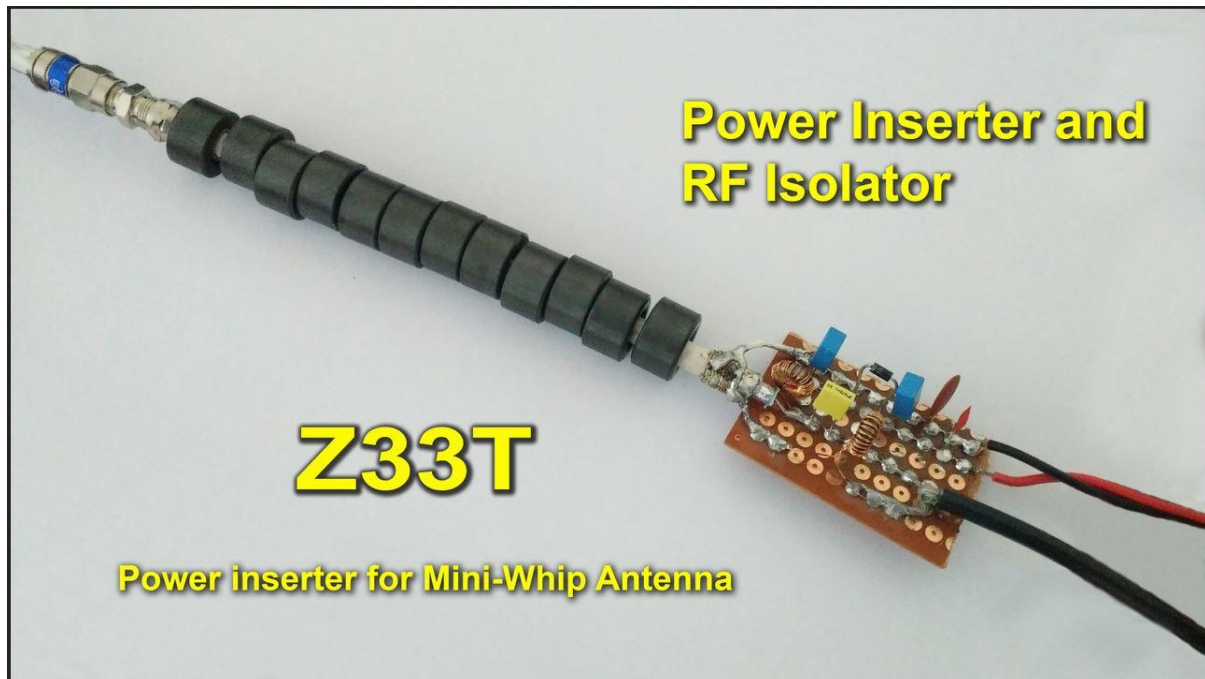


My Mini-Whip antenna in a plastic bottle

You can see the schematic diagrams of The Power Supply Unit:



Here is some pictures from my Power inserter and RF common ground Isolator for Mini-Whip active antenna powering thru the coaxial cable:



Mini Whip is excellent and cheap DIY active antenna.

Especially for lower frequencies! (VLF up to lower HF bands)

Some people who report poor performance of this antenna did not followed the rules of proper installation!

Grounding the outer conductor (shield) of the coaxial cable has to be done properly!

Coaxial cable is part of Mini-Whip antenna and collect a lot of RF noise.

You can treat Mini-Whip antenna as a vertical antenna feeding at the top where the impedance is very high. FET transistor at the input of the Mini-Whip, which has also very high impedance is adequate for this purpose.

Outer conductor of the coaxial cable (shield) must be grounded at the bottom of antenna, where the coaxial cable touching the ground, and the second grounding have to be done at the point just before coaxial cable entering in the house.

The RF isolating transformer is recommend also. In that way receiver ground is not physically connected to antenna ground but it is galvanic isolated from outer shield of coaxial cable.

All this measures are not difficult to implement and cost almost no money, but the benefit is clear, noiseless VLF and HF reception!

Mini-Whip antenna must be placed as far as possible from houses, buildings and power lines!



Here are links of my Youtube videos, where you can see my homemade Mini-Whip antennas in my backyard:

<https://www.youtube.com/watch?v=L-1V9t5tdhk>

<https://www.youtube.com/watch?v=DiAO8tCtefc>

In my other videos on YouTube, you can see how good are those mini antennas in comparison with others much bigger wire antennas:

<https://www.youtube.com/channel/UCebhSpWm48W9Dw7oa04jfSg/videos>

73,

Mile Kokotov, Z33T