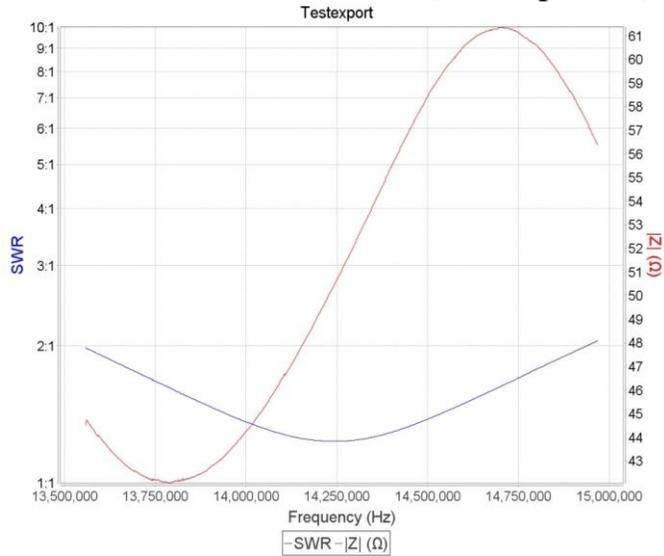


Silver Bullet Portable 80-10 Meters Vertical Base SS Coil

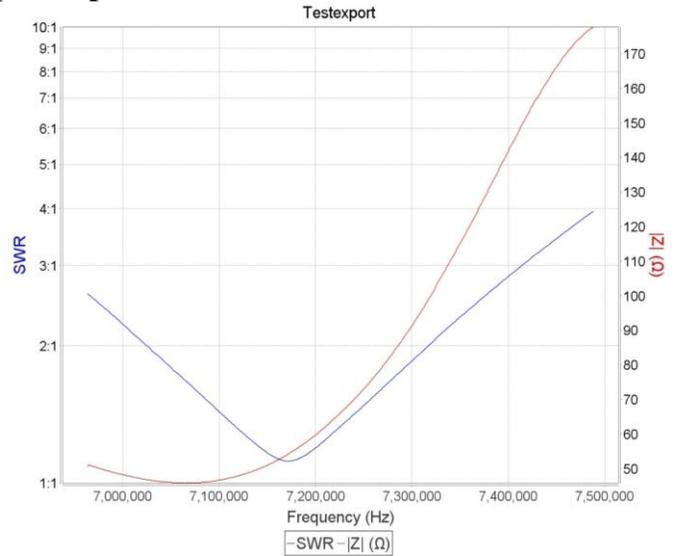
For when you need an emergency antenna, a stealth antenna or a portable antenna for camping or Field Day

Measurements were taken with a Mini VNA Pro. Antenna was ground mounted with no radials. Lower SWR can be achieved using ground radials system.

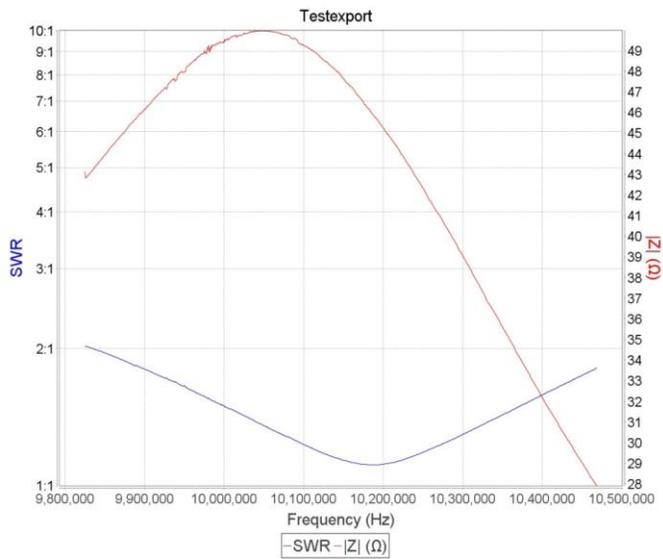
Blue trace = SWR, Red trace (where plotted) = input impedance



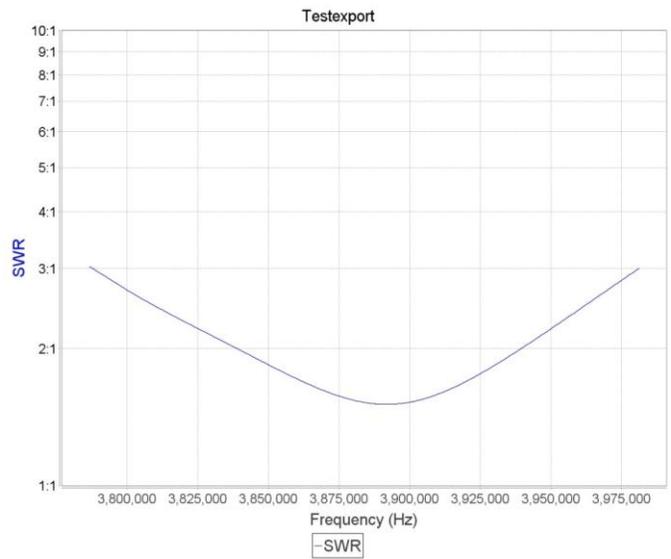
20 Meter Trace



40 Meter Trace



30 Meter Trace



80 Meter Trace

Just add your own ground mount (a 4 foot ground rod works well).
Perfect for those in antenna restricted communities.

The Silver Bullet Vertical antenna can be mounted either using a pair of 2" U clamps, the supplied zinc coated thumb screws or simply drilling out the mounting holes and mount directly to your 1 inch diameter or smaller mount.



Using common U Bolts the coil can be mounted on a standard TV antenna mast pipe. Attached the braid (ground) side of the coax to the U bolt and the center conductor to the coil input

Using the supplied zinc coated thumb screws the coil can be mounted on a 1 inch diameter or smaller pipe or ground rod. Tightening up on the thumb screws will make contact with your mount and using the supplied ¼ 20 nut on one of the thumb screws to mount the braided (ground) end of the coax. Perfect for the apartment balcony installation.



To connect coax cable to the base vertical you need to make a pig tail connection for both the center conductor as well as the ground braided conductor. The center conductor connects to the tuning coupler via the #8 screw mounted thru the base of the coil. Loosen the wing nut and attached the center conductor between the fender washers then tighten the wing nut (hand tight). The ground, braided side can go either on the one of the supplied thumb screws mount, or directly to your ground radial system. It's a good idea to waterproof your connections the best you can.

TUNING THE SILVER VERTICAL

The following are the recommended steps for tuning our antenna coil to specific bands. On the 80, 60, 40 and 30 meter bands very little right/left rotation of the collar is necessary. Tuning the 20, 17, 15 or 12 meter bands some collar rotating is needed to fine tune the frequency. One click can be heard when the collar is moved up or down one turn of wire.

All but small aluminum sections used:

60 clicks from the top	3.700
55 clicks from the top	3.980
29 clicks from the top	5.400
20 clicks from the top	7.250
10 clicks from the top	10.100
02 clicks from the top	14.250

With 1 aluminum section used:

very top of the coil	21.150
04 clicks from the top	18.100

This was with my setup that uses $\frac{3}{4}$ inch pipe 3 feet in the ground with 2 feet above ground with antenna on top. Three 35 to 40 foot radials on top of the ground. All of the above SWR readings were below 1.5 SWR.

You're tuning may vary from the above due to installation and ground. Radials, other antennas type of soil ect, but this is a good starting point.

Add the small aluminum section if you want to tune CW part of the 80 meter band.

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