Specifications ON6MU Vertical Antenna RE-A50V12ertical

Vertical 5/8 para 6m (50MHz)

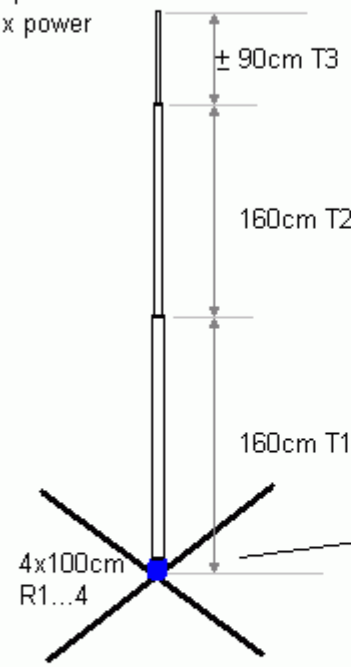
- Total length (including the 50cm mounting boom piece): 3,5m (2,95m effective)
- centre frequency: 51 Mhz
- bandwidth: 2 Mhz
- maximum tunable frequency range: 49...53 MHz+-
- impedance: 50 Ohms
- Gain: 3,6 dBi
- Maximum power using the components described: 20 watt
- NO counterpoise or radials needed if the boom is grounded or the boom length is >= 1,5m
- DC grounded (no static buildup)
- Height: 2,95m
- If needed, it can be disassembled into a very small bundle no longer than the longest element.

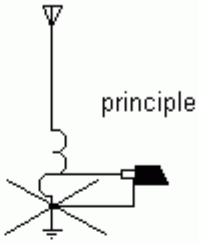
Be sure to seal everything up to avoid moisture, corrosion etc...

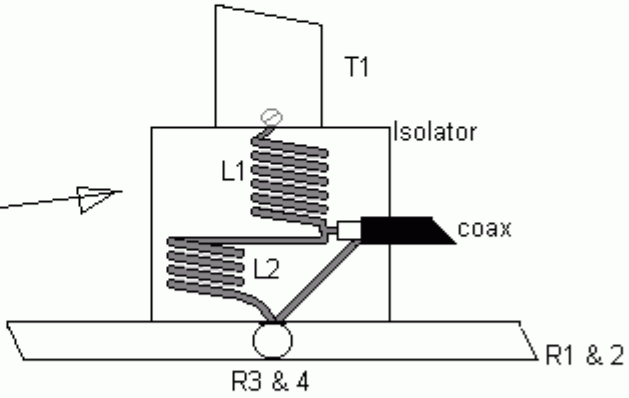
5/8 vertical groundplane antenna for 50MHz RE-A50V58

5/8 vertical groundplane antenna for 50 MHz,

Omnidirectional pattern
4.7dBi gain
2 MHz Bandwidth at 1.5 SWR
1:1 SWR on center frequency
50 OHm impedance
200 W max power







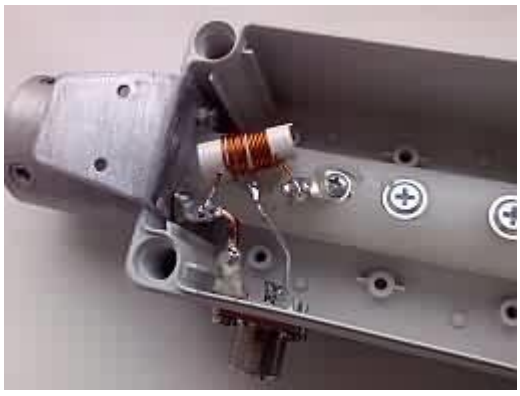
T3 = 10mm Ø (tune for best SWR by sliding it in or out T2)
T2 = 15mm Ø
T3 = 20mm Ø
R1...4= four tubes of 1 meter or 2 tubes of 2 meter crossed Ø 8mm or Ø 10mm
All alu tubing

L1 = 7 t 0.8mm, coil Ø 10mm
L2 = 5 t 0.8mm, coil Ø 10mm

de ON6MU

Note: If using a grounded boom, you can leave out the radials R1...R4 or shorten them to approx. 4x30cm

This is how Greg, **SP5LGN** constructed my 5/8 lambda 6-meter GP antenna:





Click to enlarge

Many thanks Greg!

You can fine-tune the SWR to peak in the bandsection you are planning to use the 5/8 groundplane antenna by:

- - shorten or lengten the radiating element (vertical section)
- - shorten the radials
- - experiment with the coil spacing