

# Wide Band 1:4 RF Transformer for Matching 200 Ohm Antenna to 50 Ohm Coaxial Cable

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Credit Line: Forum at cqham.ru

Yeh, it is too long title for the article however it is the right one. Below it is described two variants of wide band 1:4 RF transformer for matching 200 Ohm antenna to 50 Ohm coaxial cable. One transformer for unbalanced another one for balanced antenna. Transformer works well at all HF- Band from 160 to 10 meter. Transformer is very simple to do. Design of the transformer is clear understandable from the schematic and pictures.

Ferrite tubes maybe taken from computer interferences choke that is usually placed on monitor wires or sometimes on a keyboard wires or inside the computer. As well the ferrite tube (divided on two halves) may be taken from ferrite cable clip.

Figure 1 shows schematic of the transformer for Unbalanced Antenna. Figure 2 shows pictures of the transformer for Unbalanced Antenna. Figure 3 shows schematic of the transformer for Balanced Antenna. Figure 4 shows pictures of the transformer for Balanced Antenna. Figure 5 shows SWR of the transformer for Balanced Antenna (it is almost the same as to Unbalanced antenna).

73! RL1L

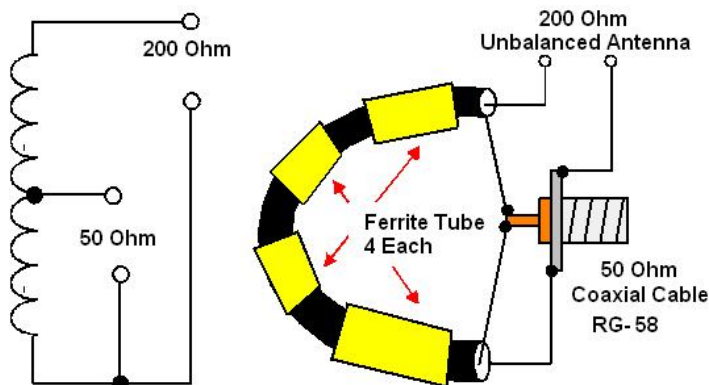


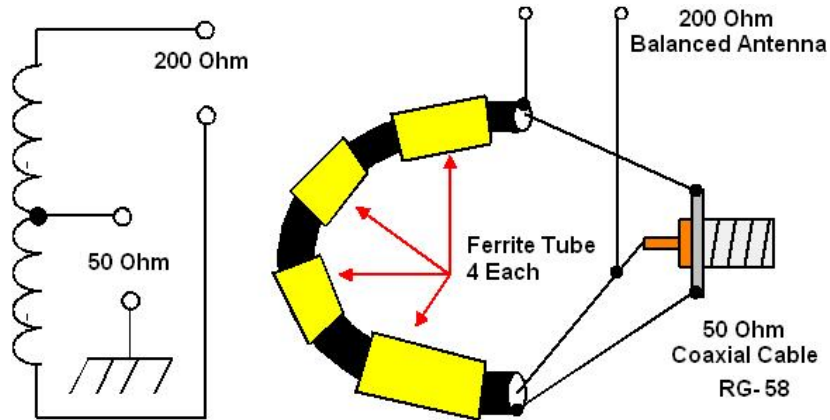
Figure 1

Schematic of the Transformer for Unbalanced Antenna



Figure 2

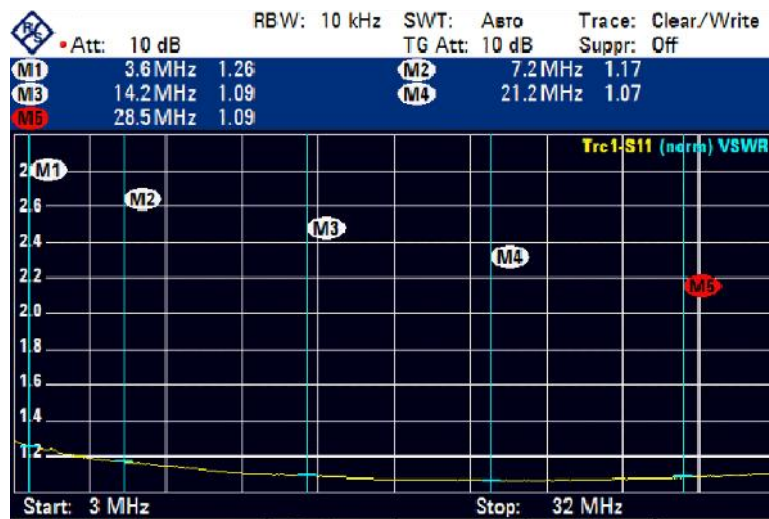
Picture of the Transformer for Unbalanced Antenna



**Figure 3**  
Schematic of the Transformer for Balanced Antenna



**Figure 4**  
Picture of the Transformer for Balanced Antenna



**Figure 5**  
SWR of the Transformer for Balanced Antenna