# Wire Antennas for the 160 and 80- meter Bands

***The publication is devoted to the memory UR0GT.***

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***Credit Line: Forum from: www.cqham.ru***

The both antennas have resonance at 160 and 80- meter bands. There are hi- ohmic antennas, so, these ones need an ATU for the feeding. **Figure 1** shows design of the wire antenna with resonances at 1.85 and 3.65- MHz.

The MMANA model of the wire antenna with resonances at 1.85 and 3.65- MHz

may be loaded: http: // www.antentop.org/015/wire_015.htm

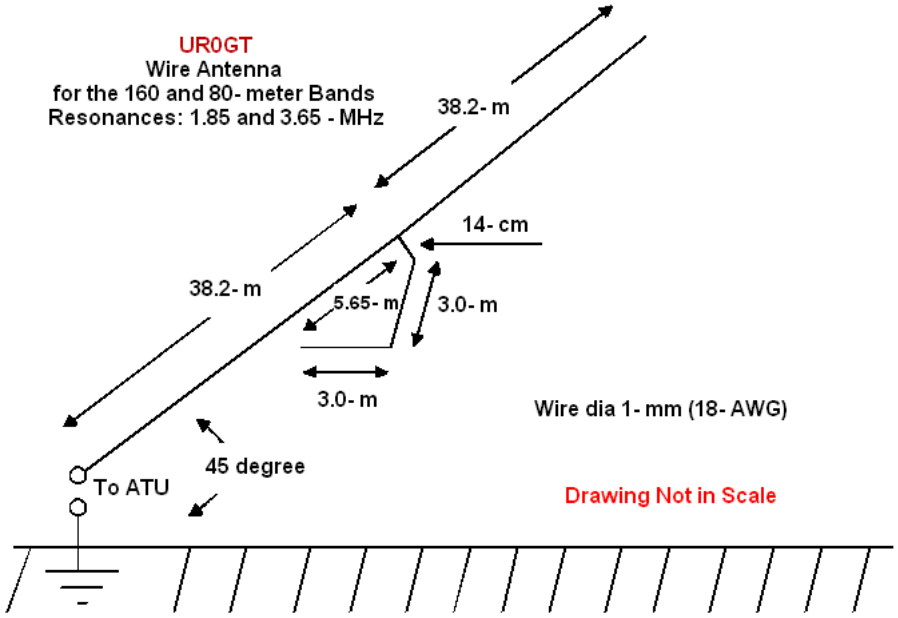


**Figure 1** Design of the wire antenna with resonances at 1.85 and 3.65- MHz

**Figure 2** shows Z of the Wire Antenna at the 160 meter Band (above real ground). **Figure 3** shows SWR of the Wire Antenna at the 160 meter Band (above real ground). **Figure 4** shows DD of the Wire Antenna at the 160 meter Band (above real ground).

**Figure 5** shows Z of the Wire Antenna at the 80 meter Band (above real ground). **Figure 6** shows SWR of the Wire Antenna at the 80 meter Band (above real ground). **Figure 7** shows DD of the Wire Antenna at the 80 meter Band (above real ground)

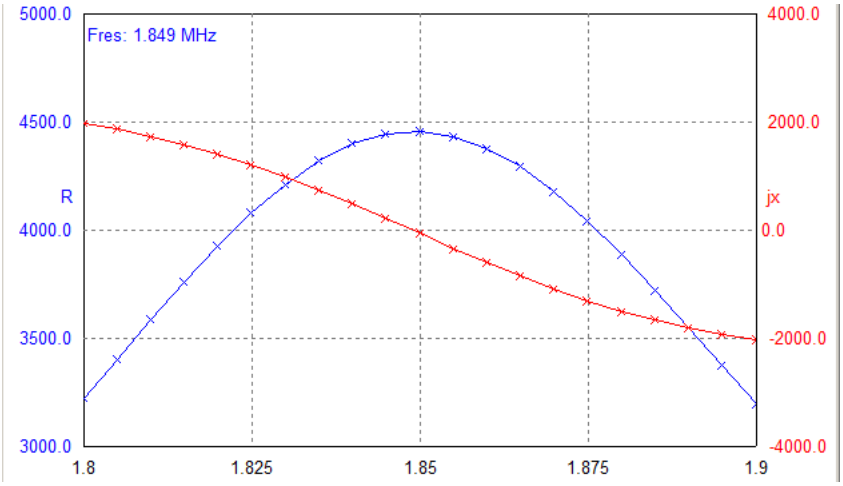


**Figure 2** Z of the Wire Antenna at the 160 meter Band (above real ground)

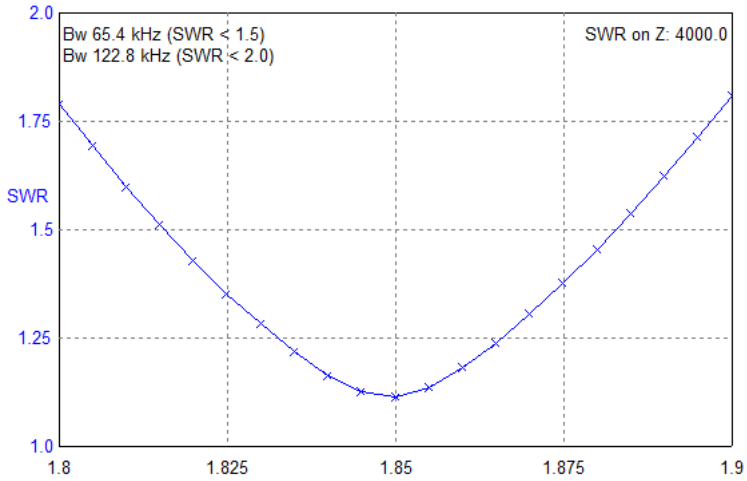


**Figure 3** SWR of the Wire Antenna at the 160 meter Band (above real ground)

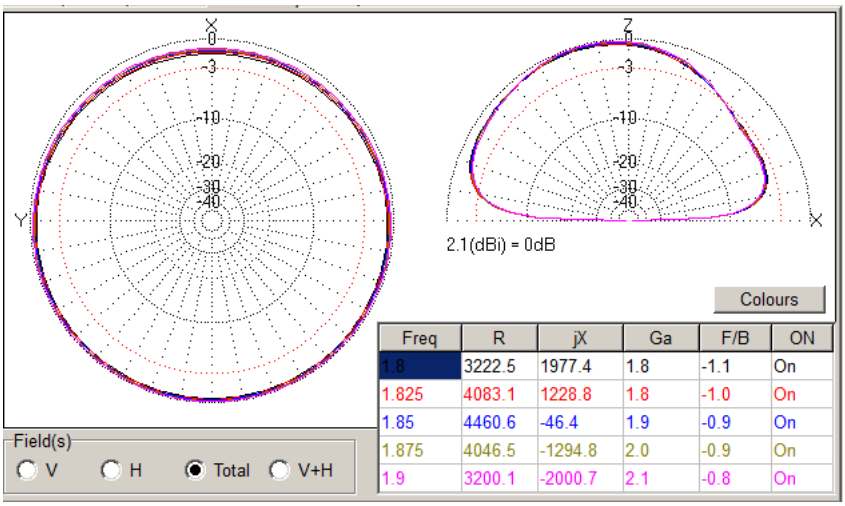


**Figure 4** DD of the Wire Antenna at the 160 meter Band (above real ground

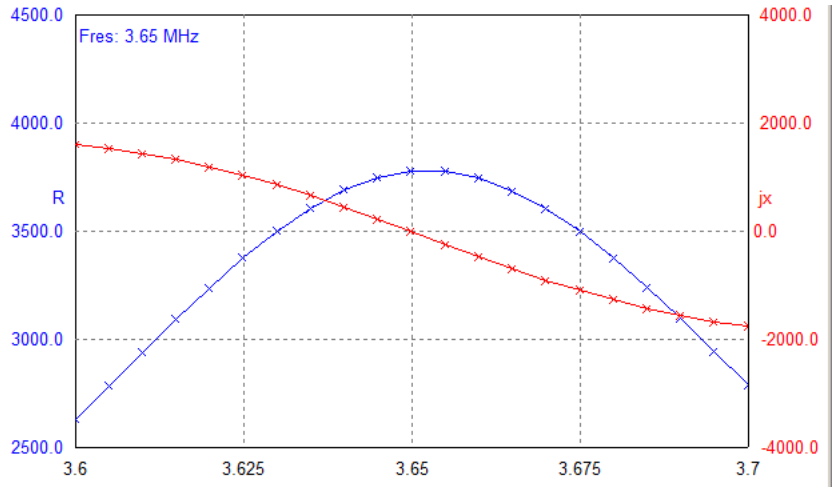


**Figure 5** Z of the Wire Antenna at the 80 meter Band (above real ground)

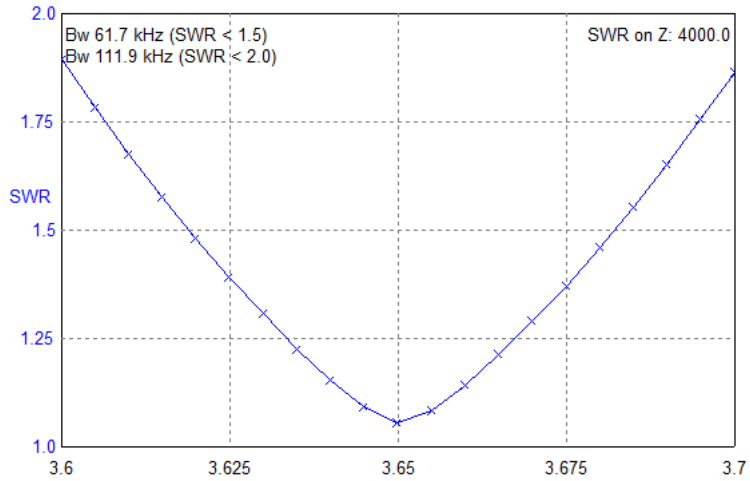


**Figure 6** SWR of the Wire Antenna at the 80 meter Band (above real ground)

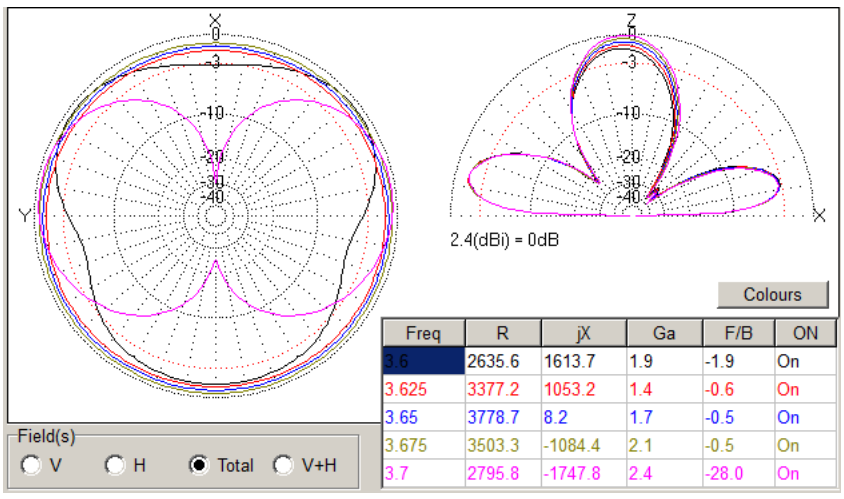


**Figure 7** DD of the Wire Antenna at the 80 meter Band (above real ground)

**Figure 8** shows design of the wire antenna with resonances at 1.88 and 3.648- MHz.

The MMANA model of the wire antenna with resonances at 1.85 and 3.65- MHz may be loaded:

http: // www.antentop.org/015/wire_015.htm

**Figure 9** shows Z of the Wire Antenna at the 160 meter Band (above real ground). **Figure 10** shows SWR of the Wire Antenna at the 160 meter Band (above real ground). **Figure 11** shows DD of the Wire Antenna at the 160 meter Band (above real ground).

**Figure 12** shows Z of the Wire Antenna at the 80 meter Band (above real ground). **Figure 13** shows SWR of the Wire Antenna at the 80 meter Band (above real ground). **Figure 14** shows DD of the Wire Antenna at the 80 meter Band (above real ground)

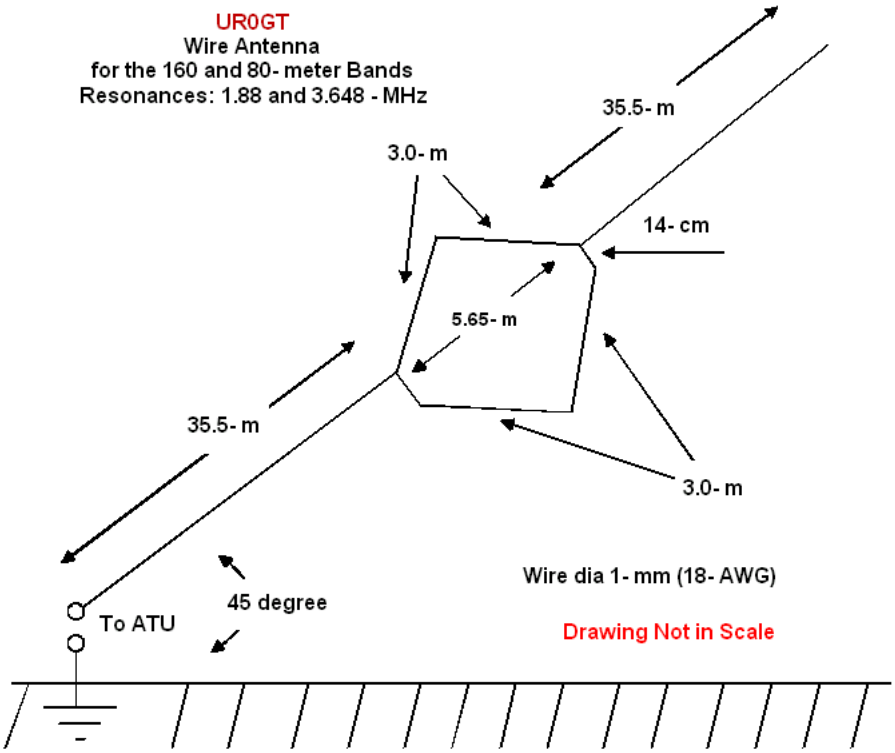


**Figure 8** Design of the wire antenna with resonances at 1.85 and 3.65- MHz

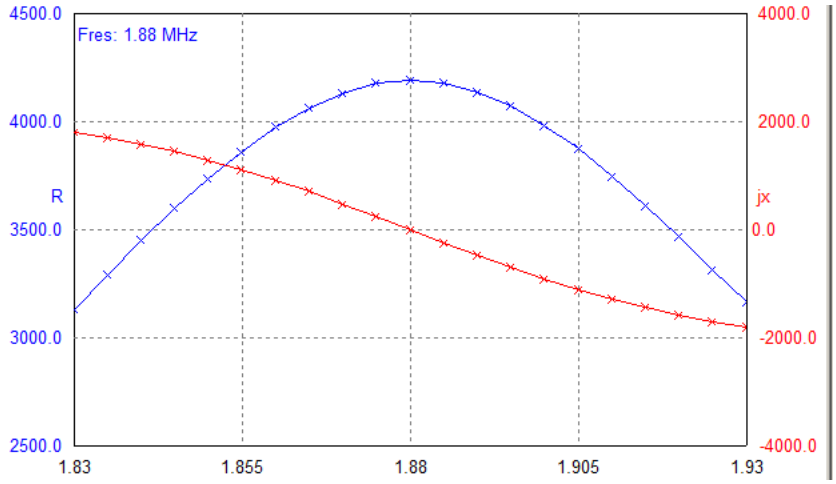


**Figure 9** Z of the Wire Antenna at the 160 meter Band (above real ground)

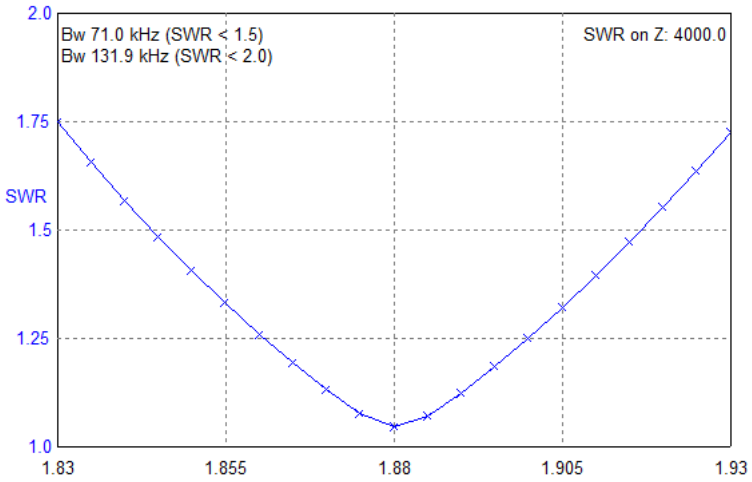


**Figure 10** SWR of the Wire Antenna at the 160 meter Band (above real ground)

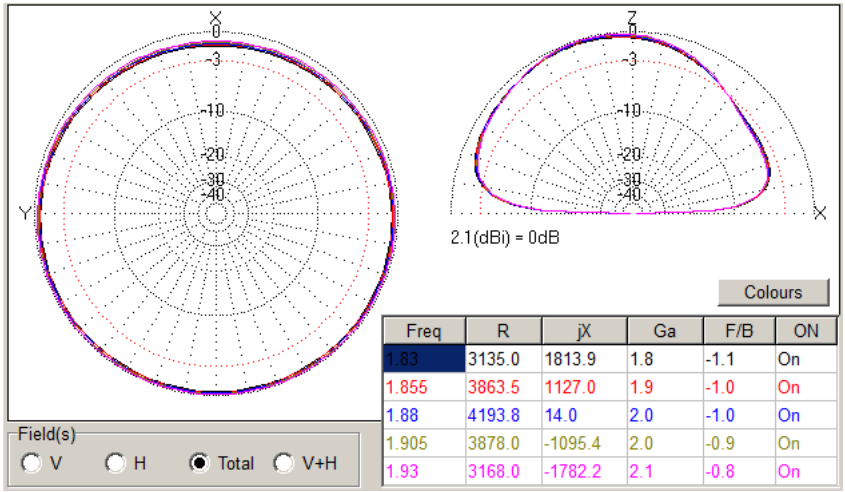


**Figure 11** DD of the Wire Antenna at the 160 meter Band (above real ground)

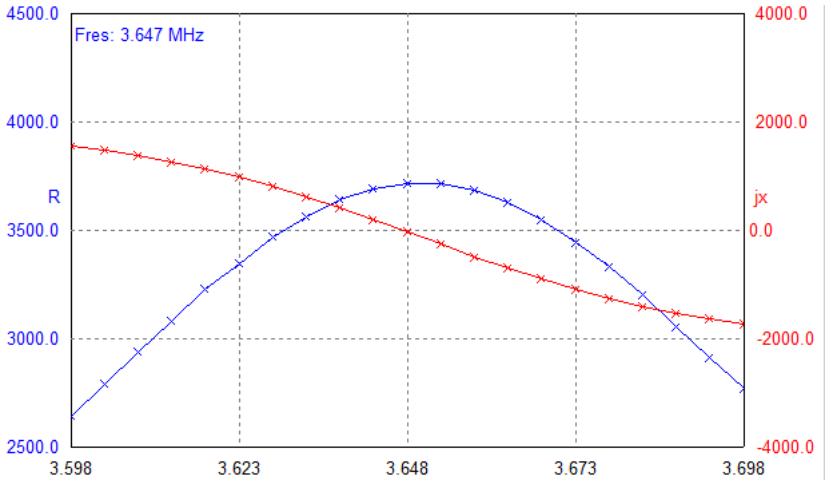


**Figure 12** Z of the Wire Antenna at the 80 meter Band (above real ground)

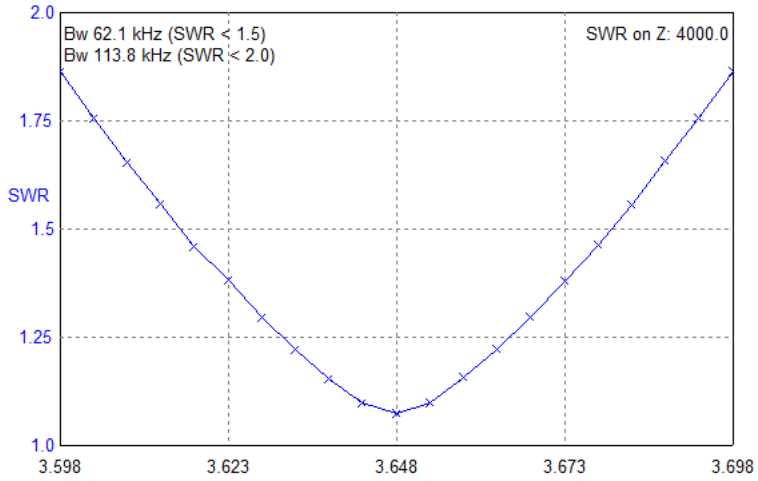


**Figure 13** SWR of the Wire Antenna at the 80 meter Band (above real ground)

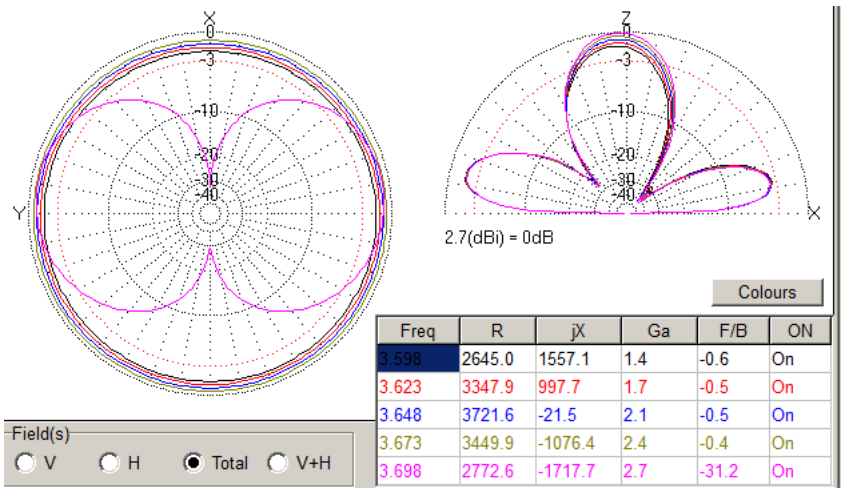


**Figure 14** DD of the Wire Antenna at the 80 meter Band (above real ground)

***73 Nick***