

# RN3DEK Horizontal Butterfly Antenna for the 50- MHz Band

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The Horizontal Butterfly antenna simulated in MMANA by RN3DEK is very simple to do. It is a broadband antenna so it is cover a wide range of the 50- MHz band and the antenna is not critical to the dimension. **Figure 1** shows design of the antenna.

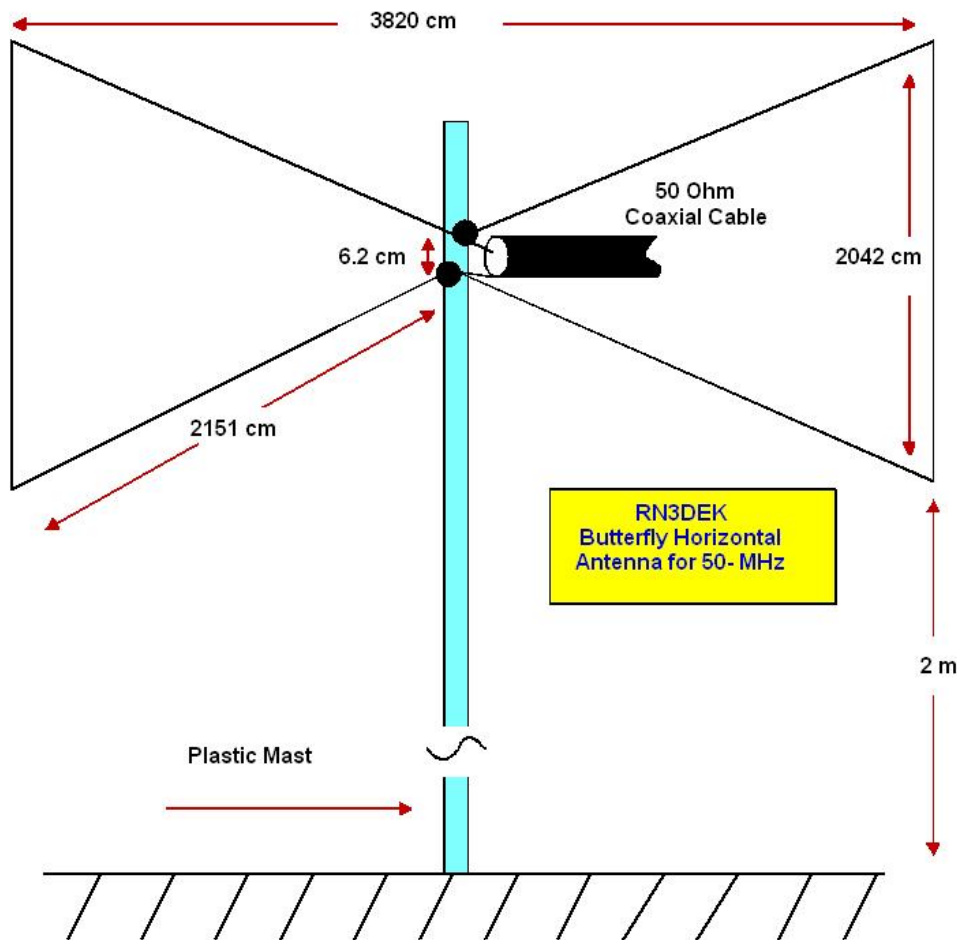
File MMANA allows play with the antenna according to the height above the ground and the material of the mast.

Antenna is installed at 2 meter above the ground on a plastic mast. However the antenna is not critical to height above the ground and material of the mast and may be installed at metal mast.

**Figure 2** shows Z of the Horizontal Butterfly Antenna for 50- MHz Band. **Figure 3** shows SWR of the Horizontal Butterfly Antenna for 50- MHz Band. **Figure 4** shows DD of the Horizontal Butterfly Antenna for 50- MHz Band.

*73! de RN3DEK*

The MMANA model of the Horizontal Butterfly Antenna for the 50- MHz Band may be downloaded at: [http://www.antentop.org/025/RN3DEK\\_H\\_025.htm](http://www.antentop.org/025/RN3DEK_H_025.htm)



**Figure 1** RN3DEK Horizontal Butterfly Antenna for the 50- MHz Band

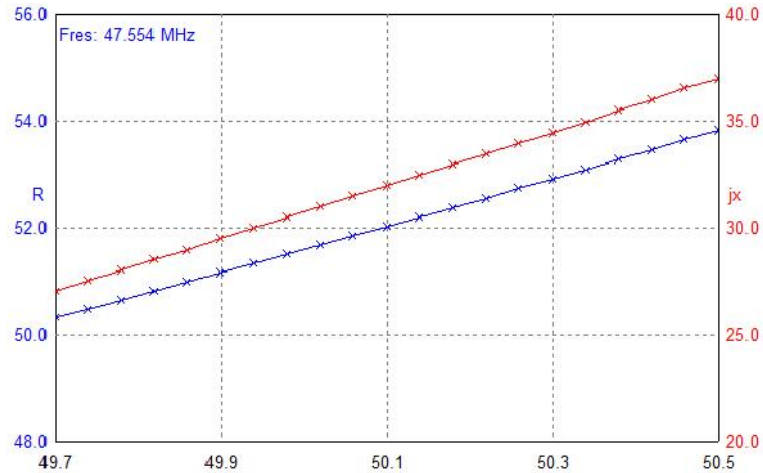


Figure 2 Z of the Horizontal Butterfly Antenna for the 50- MHz Band

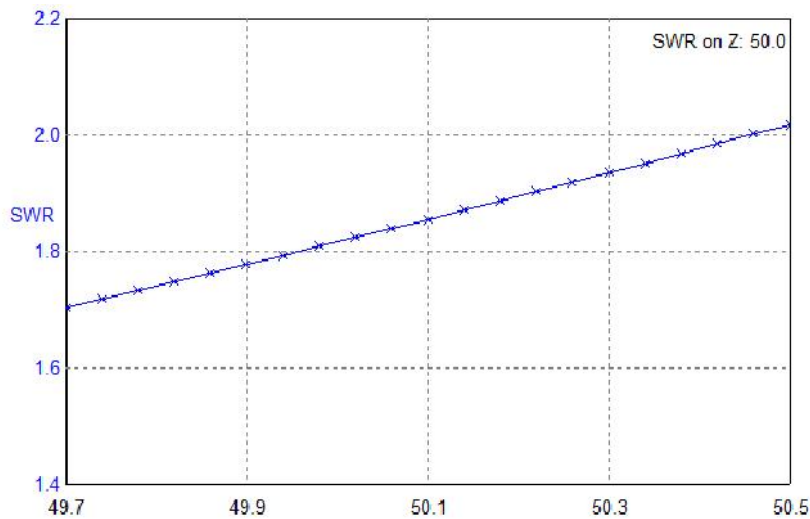


Figure 3 SWR of the Horizontal Butterfly Antenna for the 50- MHz

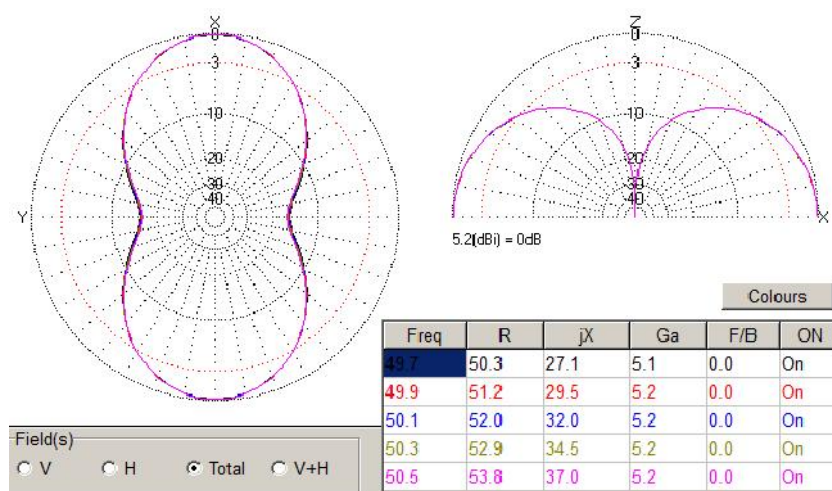


Figure 4 DD of the Horizontal Butterfly Antenna for the 50- MHz Band