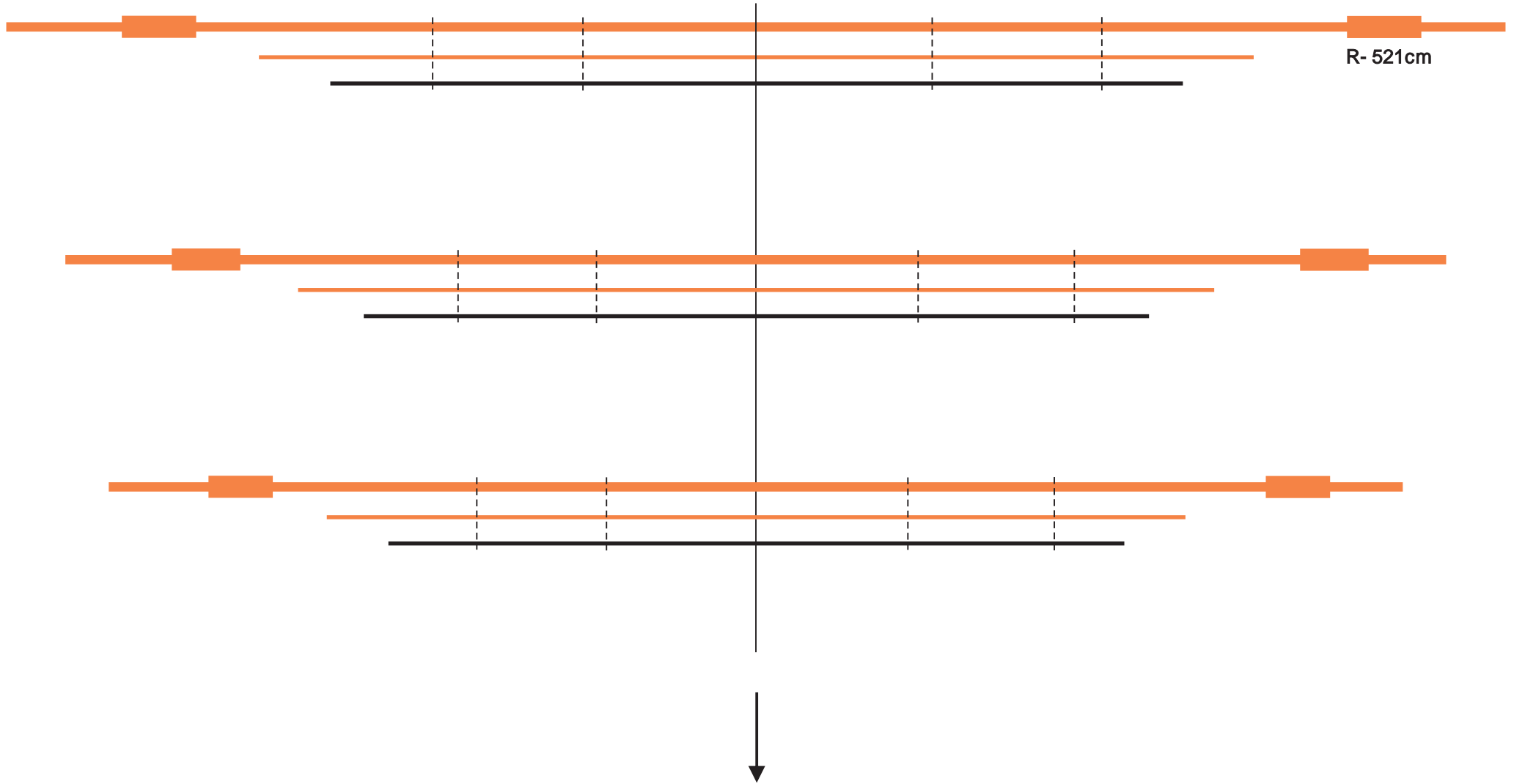
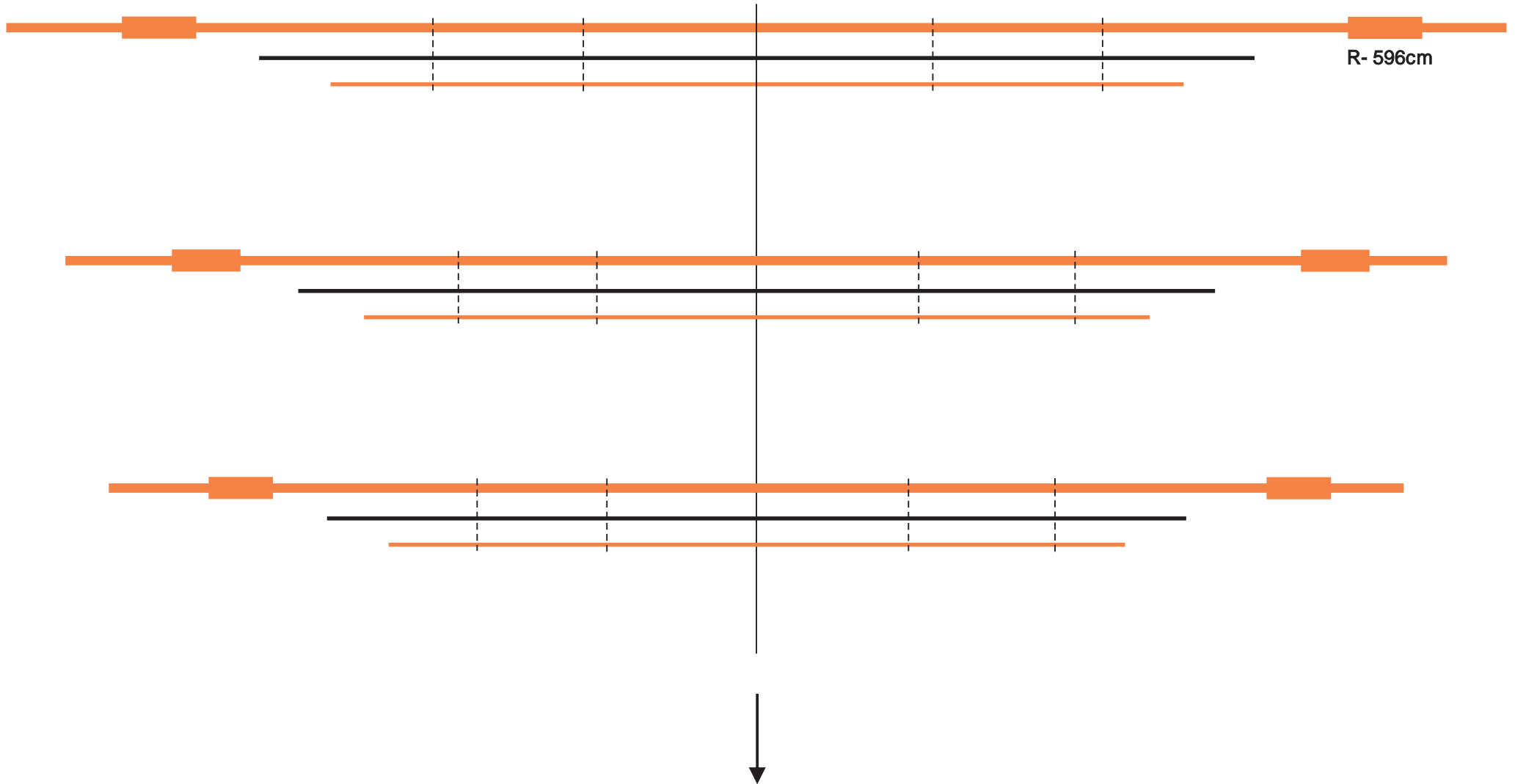


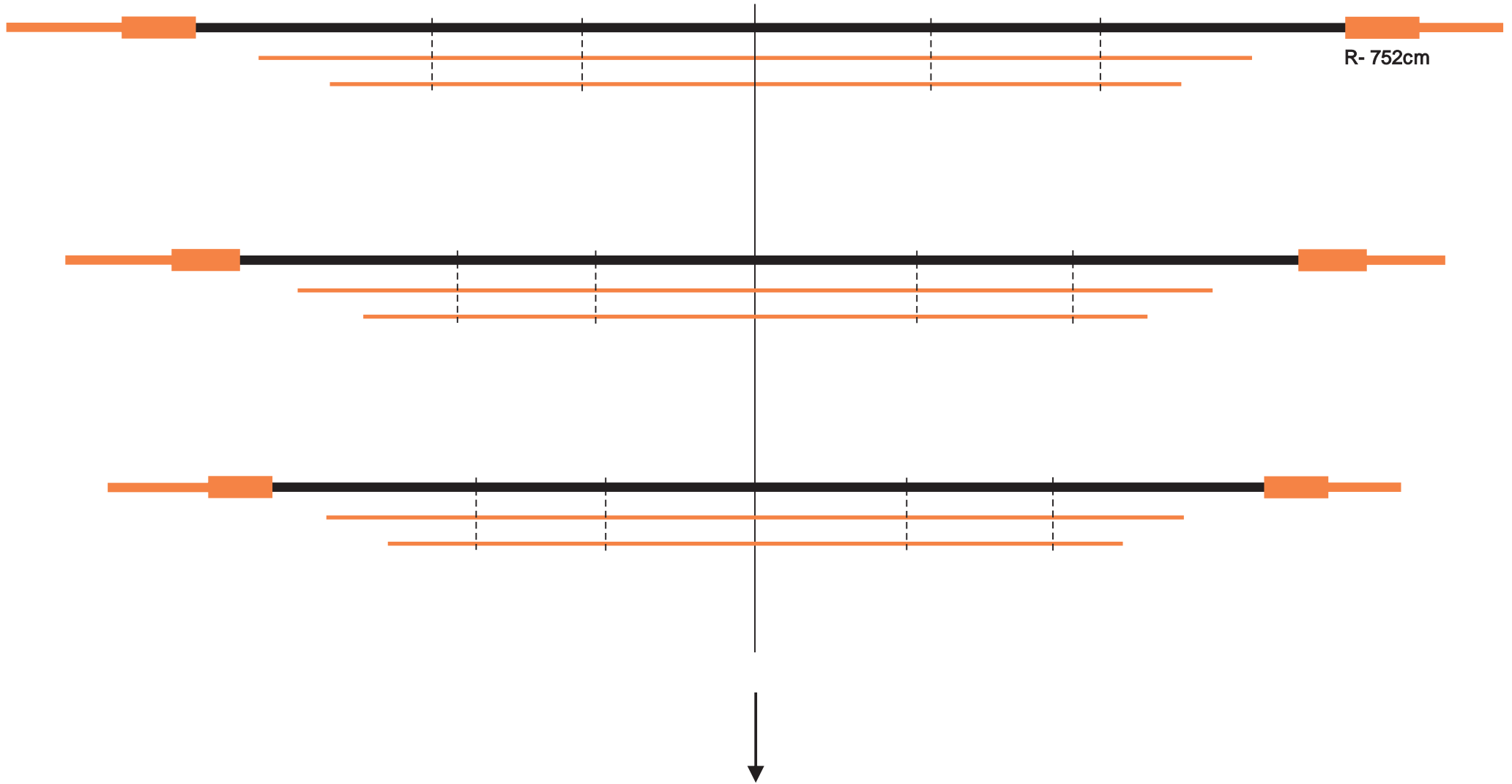
# The active elements and their length for band 28 MHz



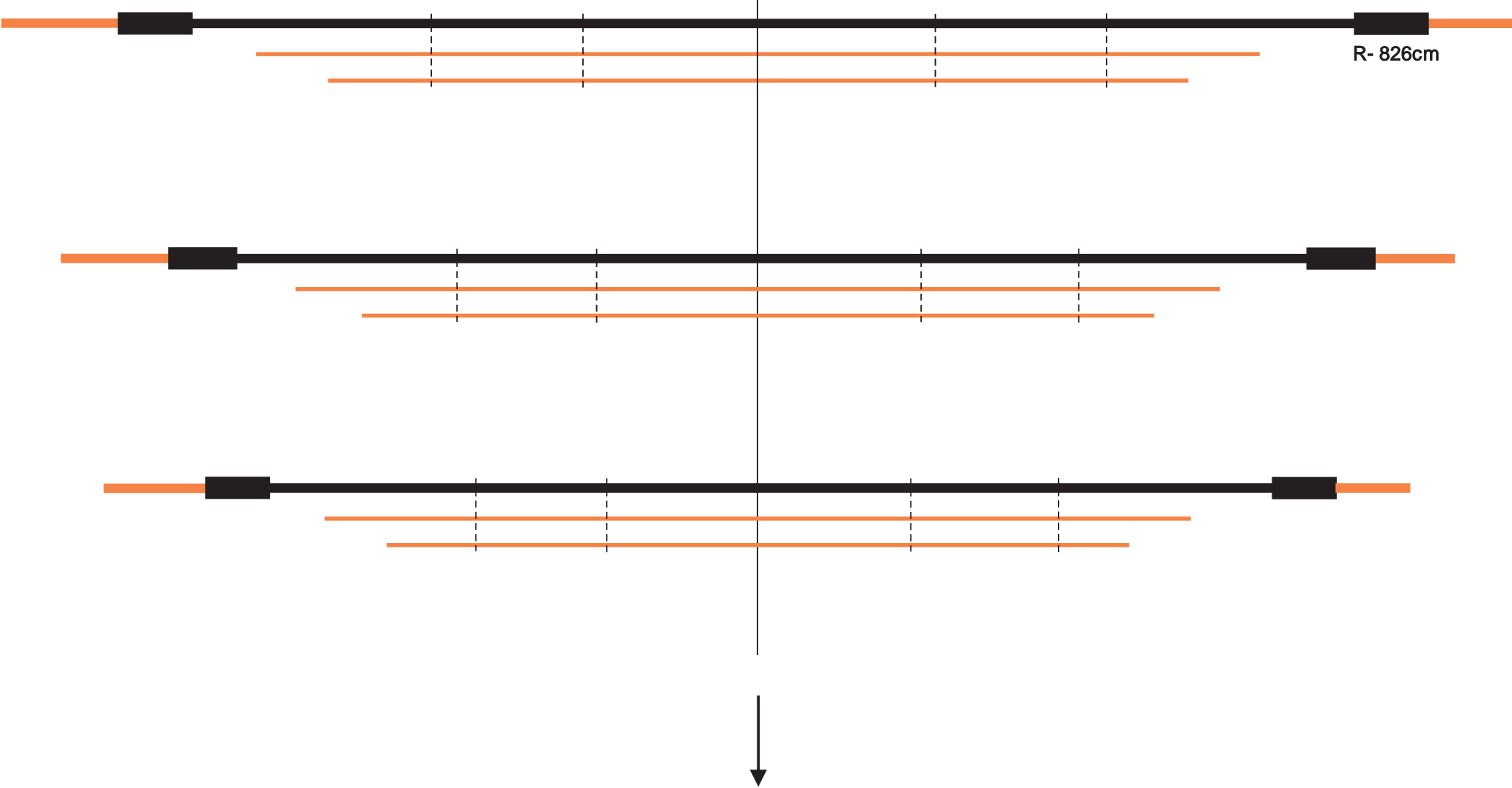
# The active elements and their length for band 24 MHz



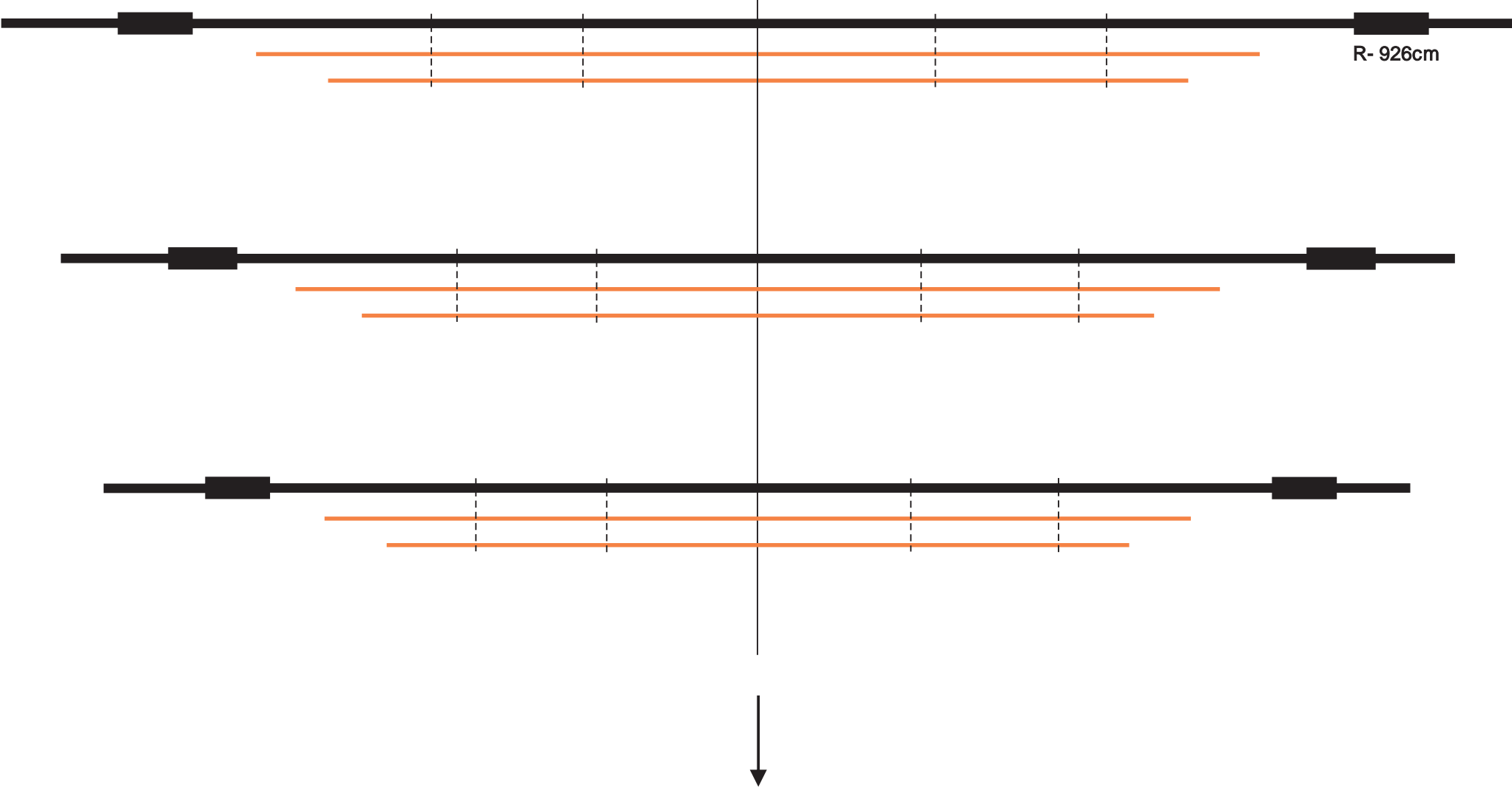
# The active elements and their length for band 21 MHz



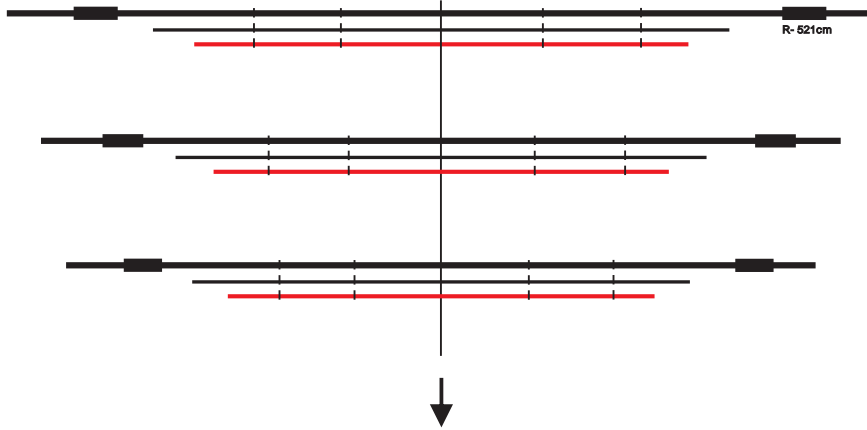
# The active elements and their length for band 18 MHz



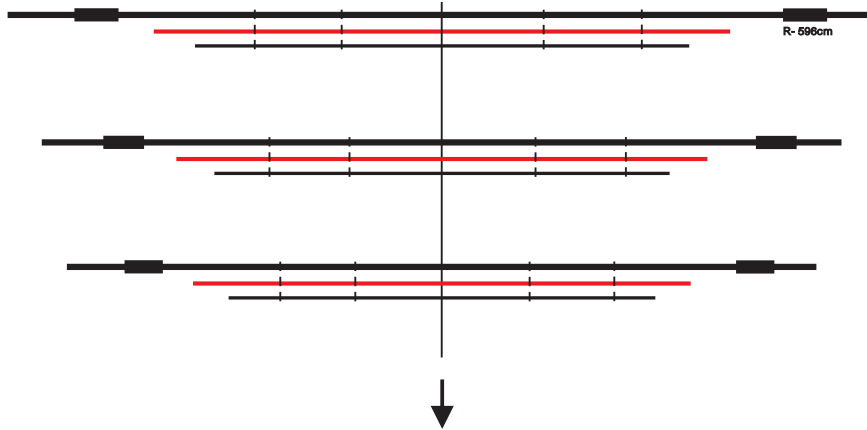
# The active elements and their lenght for band 14 MHz



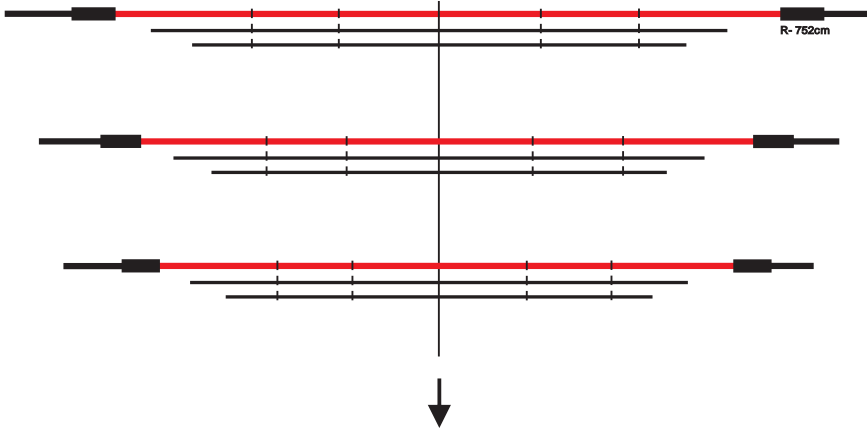
The active elements and their length for band 28 MHz



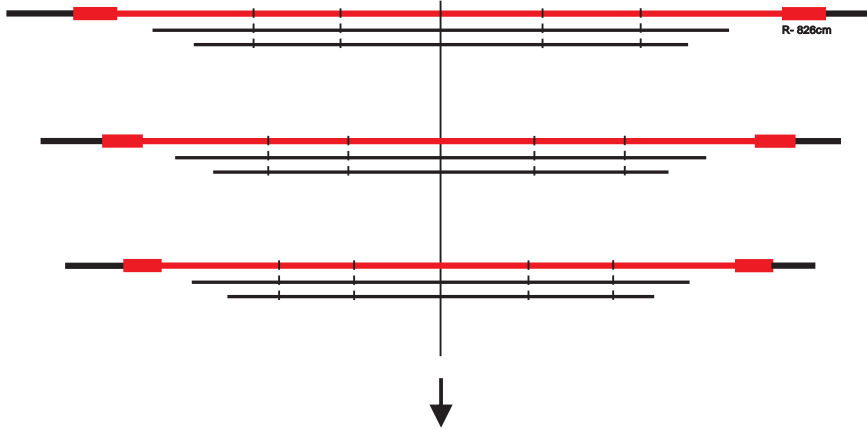
The active elements and their length for band 24 MHz



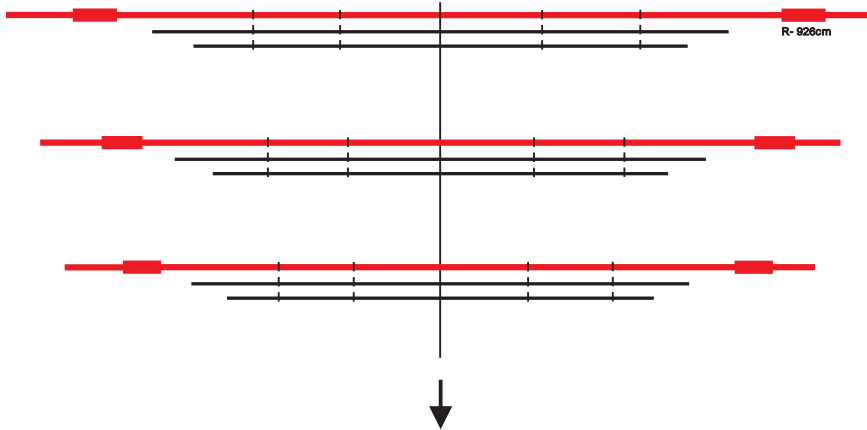
The active elements and their length for band 21 MHz



The active elements and their length for band 18 MHz



The active elements and their length for band 14 MHz



In the design of my 3 elements for 5 bands antenna, the elements for 21 MHz, 24 MHz and 28 MHz have the full dimension while the typical solutions of similar antennas full size is applied only for 28 MHz.

As shown in the attached drawing, elements for the bands 24 MHz and 28 MHz are suspended under the main elements of beam. This solution has allowed me to increasing the size of the main elements of the antenna.

This solution resulted in a significant increase in the antenna efficiency on each band.