UR0GT Super- J Antenna for the 438 MHz

The publication is devoted to the memory UR0GT.

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Super J antenna is very popular on UHF bands. Here it is present two design of the antenna. First design of the antenna has input impedance of 200- Ohm so it is possible match the antenna with 50- Ohm coaxial cable with help of 4:1 transformer.

Design of Super- J Antenna for the 438 MHz with 200 Ohm input impedance is shown in **Figure 1**.

Figure 2 shows Z of the UR0GT Super- J Antenna for the 438 MHz with 200 Ohm input impedance. **Figure 3** shows SWR of the UR0GT Super- J Antenna for the 438 MHz with 200 Ohm input impedance. **Figure 4** shows DD of the UR0GT Super- J Antenna for the 438 MHz with 200 Ohm input impedance

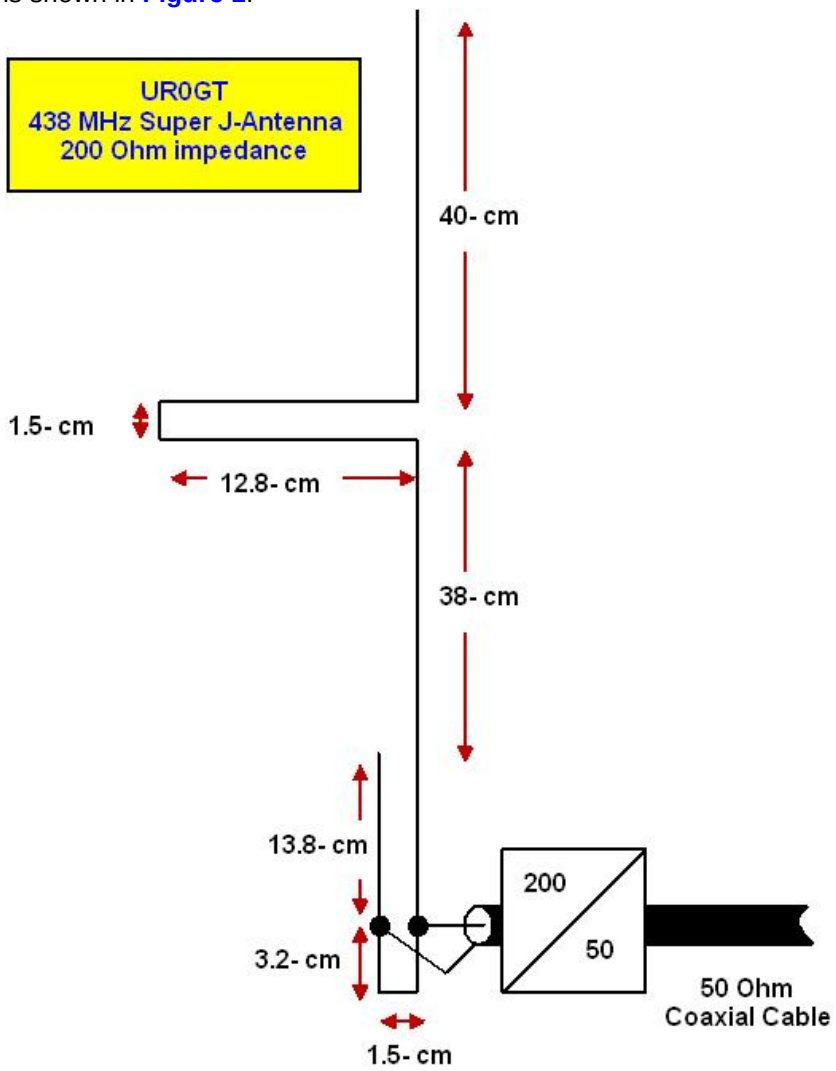


Figure 1 Design of UR0GT Super- J Antenna for the 438 MHz with 200 Ohm Input Impedance

The MMANA model of the UR0GT Super- J Antenna for the 438 MHz with 200 Ohm Input Impedance may be loaded: http: // www.antentop.org/023/UR0GT_023.htm

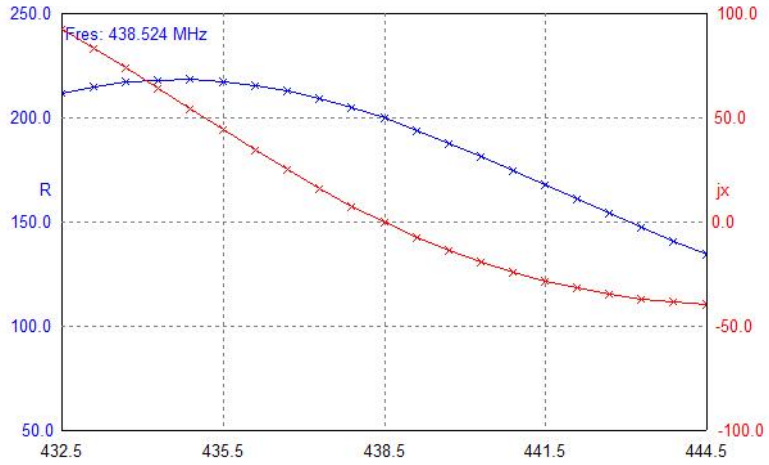


Figure 2

Z of the UR0GT Super- J Antenna for the 438 MHz with 200 Ohm Input Impedance

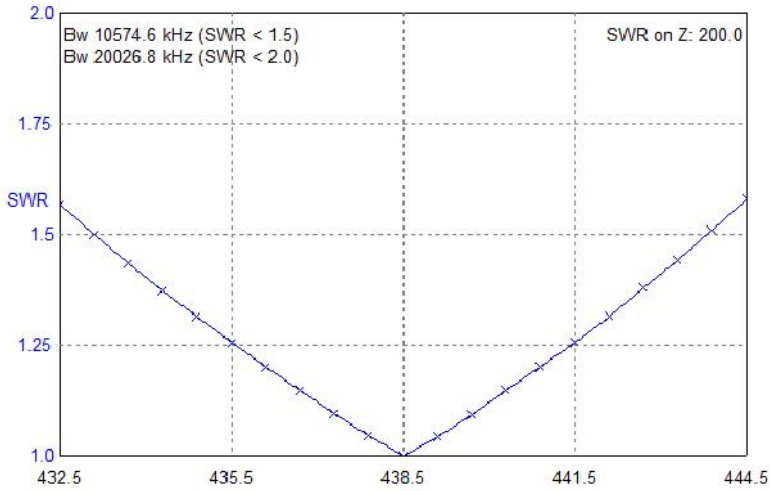
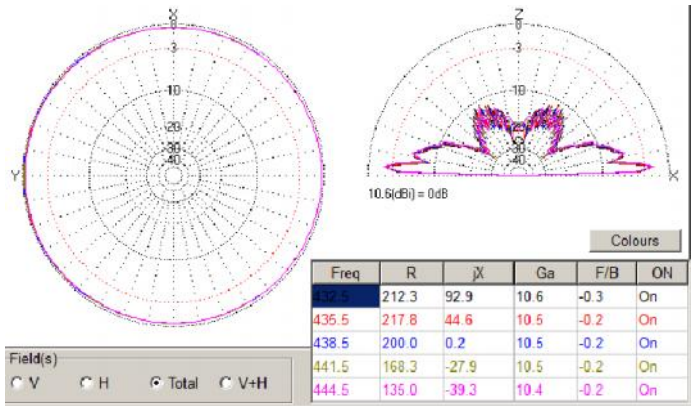


Figure 3

SWR of the UR0GT Super- J Antenna for the 438 MHz with 200 Ohm Input Impedance



Freq	R	jX	Ga	F/B	ON
435.5	217.8	44.6	10.5	-0.2	On
438.5	200.0	0.2	10.5	-0.2	On
441.5	168.3	-27.9	10.5	-0.2	On
444.5	135.0	-39.3	10.4	-0.2	On

Figure 4

DD of the UR0GT Super- J Antenna for the 438 MHz with 200 Ohm Input Impedance

Design of Super- J Antenna for the 438 MHz with 50 Ohm input impedance is shown in **Figure 5**.

Figure 6 shows Z of the UR0GT Super- J Antenna for the 438 MHz with 50 Ohm input impedance. **Figure 7** shows SWR of the UR0GT Super- J Antenna for the 438 MHz with 50 Ohm input impedance. **Figure 8** shows DD of the UR0GT Super- J Antenna for the 438 MHz with 50 Ohm input impedance

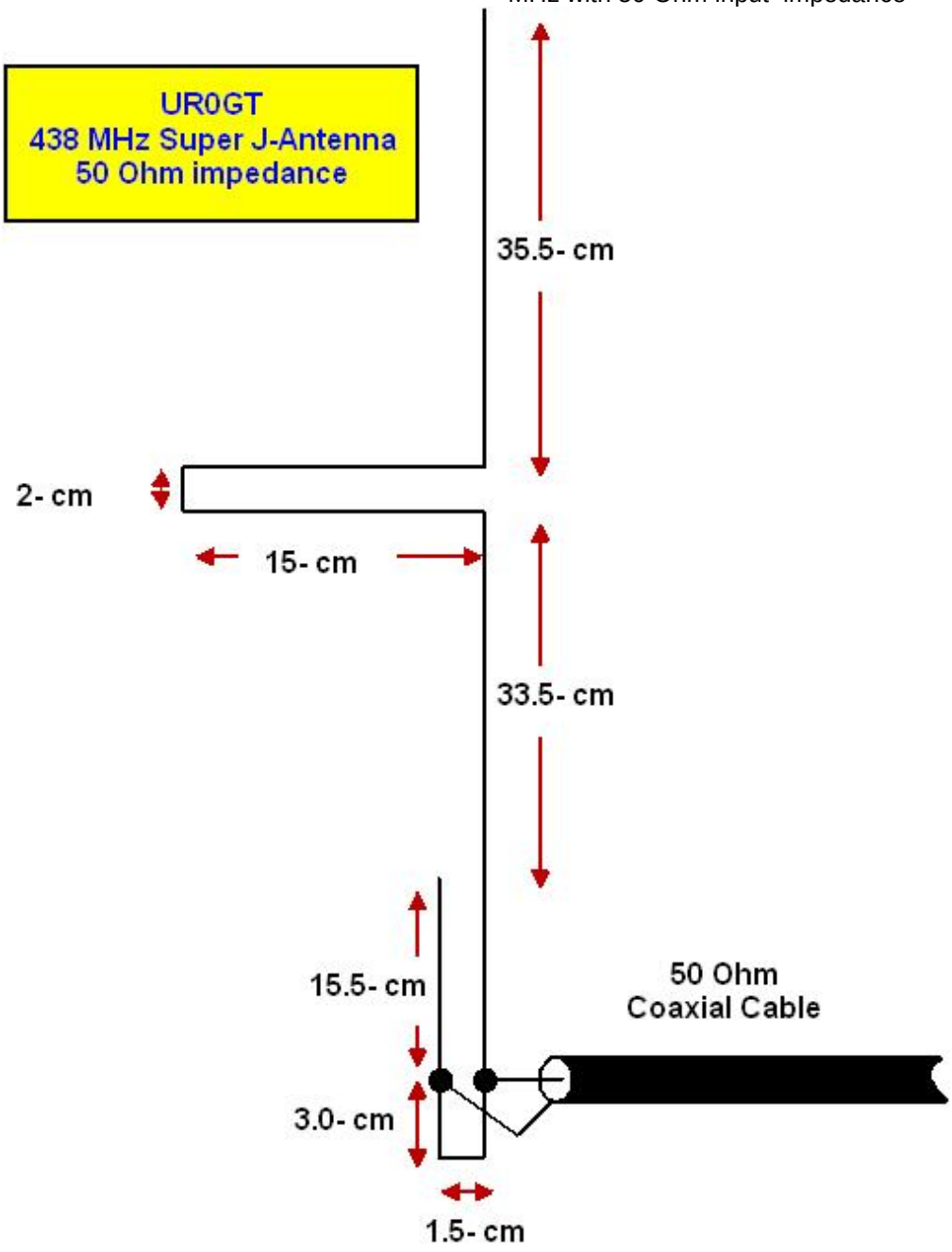


Figure 5 UR0GT Super- J Antenna for the 438 MHz with 50 Ohm Input Impedance

The MMANA model of the UR0GT Super- J Antenna for the 438 MHz with 50 Ohm Input Impedance may be loaded: http: // www.antentop.org/023/UR0GT_023.htm

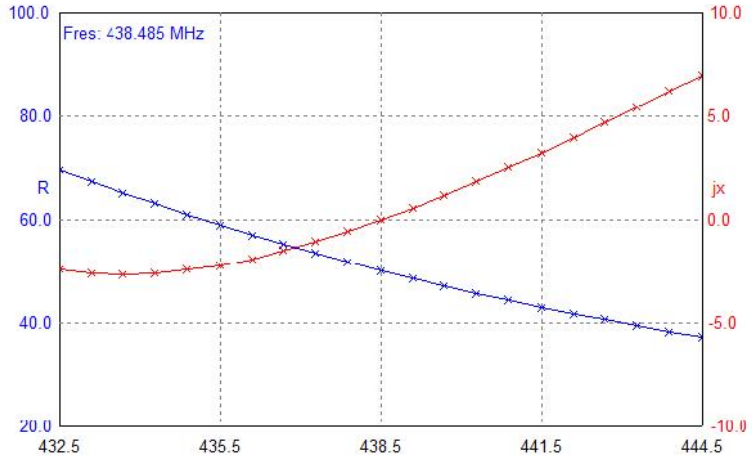


Figure 6

Z of the UR0GT Super- J Antenna for the 438 MHz with 50 Ohm Input Impedance

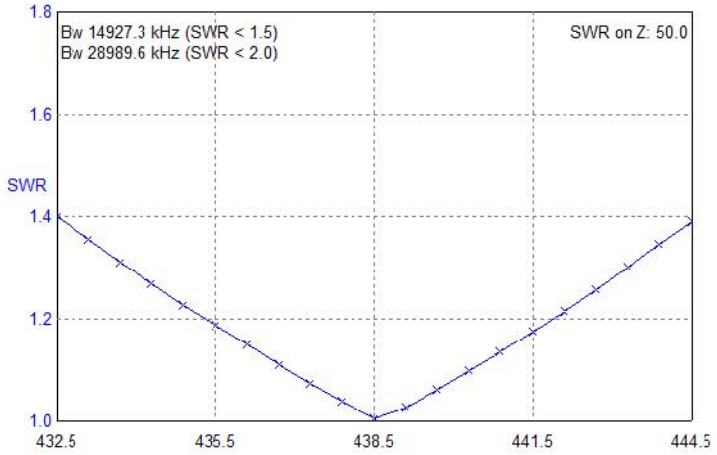
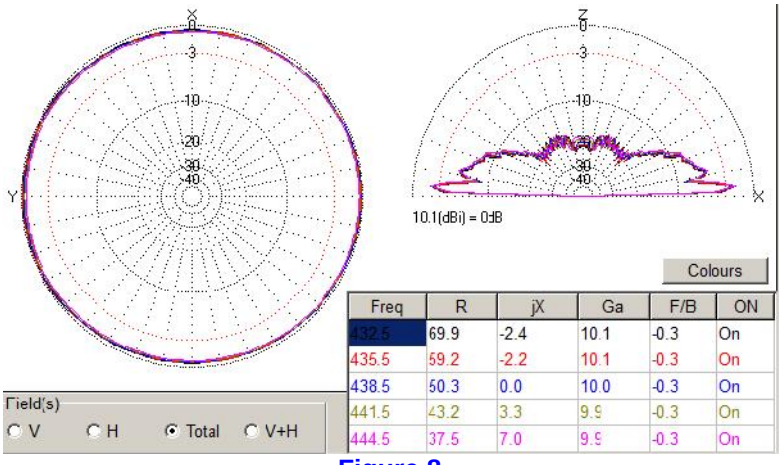


Figure 7

SWR of the UR0GT Super- J Antenna for the 438 MHz with 50 Ohm Input Impedance



Freq	R	jX	Ga	F/B	ON
432.5	69.9	-2.4	10.1	-0.3	On
435.5	59.2	-2.2	10.1	-0.3	On
438.5	50.3	0.0	10.0	-0.3	On
441.5	43.2	3.3	9.9	-0.3	On
444.5	37.5	7.0	9.9	-0.3	On

Figure 8

DD of the UR0GT Super- J Antenna for the 438 MHz with 50 Ohm Input Impedance