

800 MHz ... 1100 MHz Circularly polarized helical antenna for anti-drone jammers



General information

Circularly polarized helical antenna with a hemispherical radiation pattern for high-power anti-drone jammers.

Typical applications

Anti-drone jammers, drone remote control.

Electrical data

Antenna type	Helical antenna
Frequency bands	SRD860 (EU), ISM915 (US)
Frequency range [MHz]	800...1100
Return loss [dB]	-10
Peak gain [dBi]	7...9
Radiation efficiency [%]	95
Nominal input impedance [Ohm]	50
Polarization	Circular (RHCP)
Radiation pattern	directional (hemispherical)
Maximum input power [W]	100

Mechanical data

Antenna dimensions [mm]	200 x 200 x 190
Connector type ¹⁾	N Female ¹⁾
Material	Steel, plastic, copper
Weight [g]	600

Environmental data

Operating temperature [°C]	-40...+85
Storage temperature [°C]	-40...+85
Ambient relative humidity [%]	0...95
RoHS / REACH compliant	yes / yes

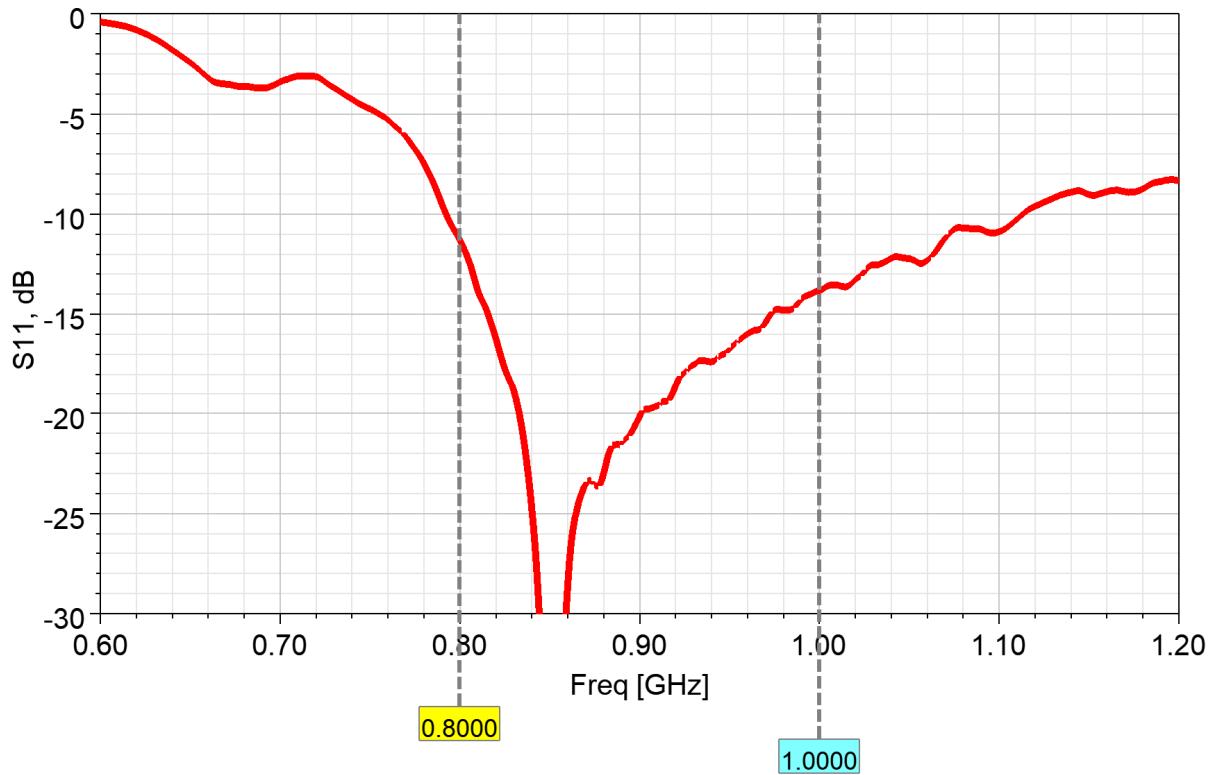
Additional information

¹⁾ Other connector types can be offered on request.

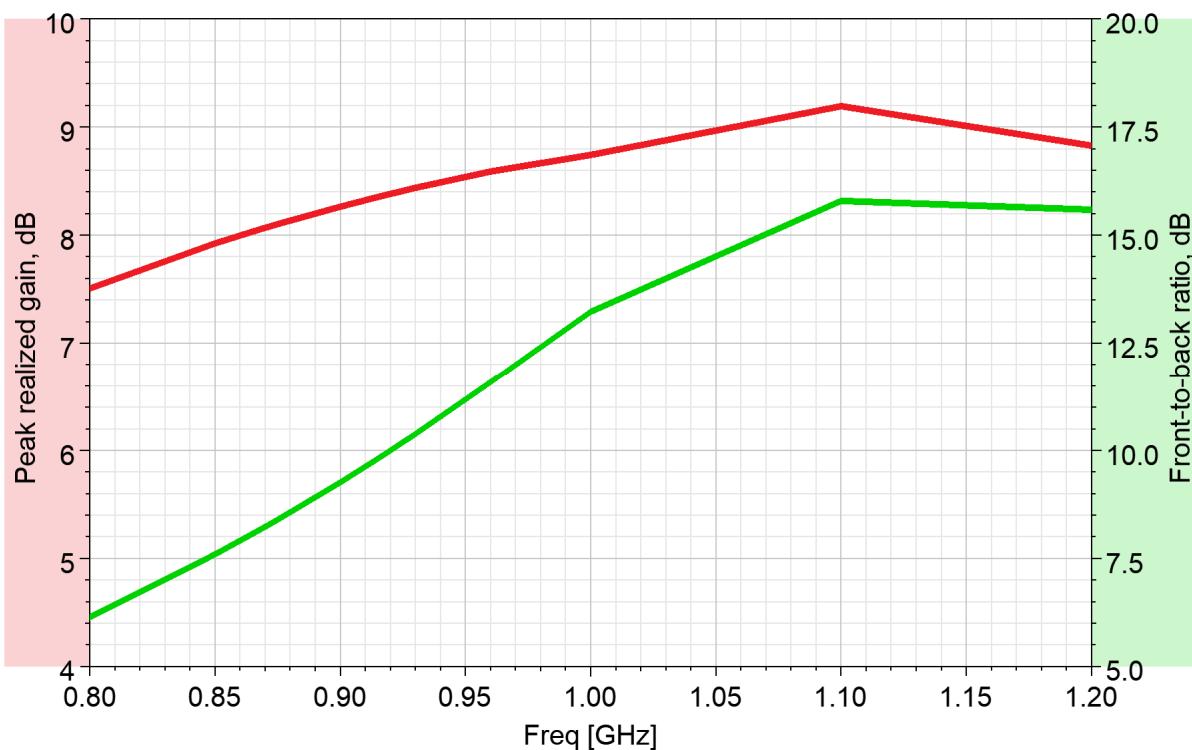
Other designs, geometries or materials are possible on request.

800 MHz ... 1100 MHz Circularly polarized helical antenna for anti-drone jammers

Measured input impedance matching



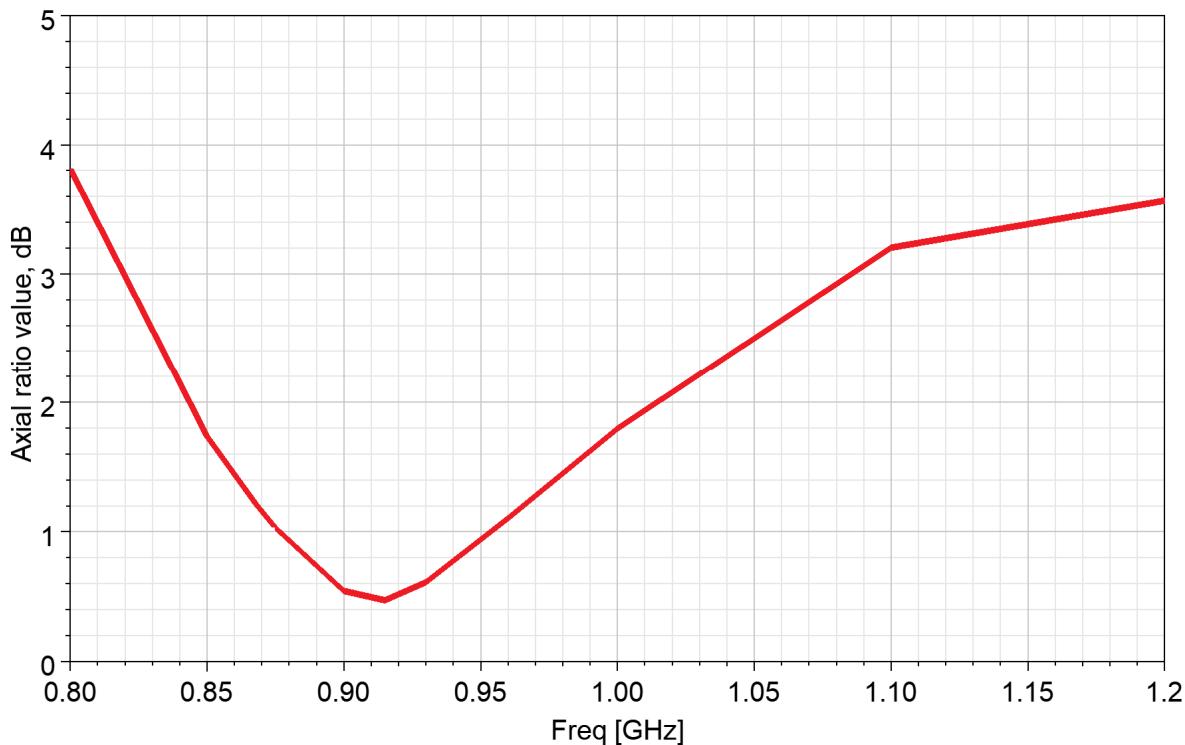
Peak realized gain and front-to-back ratio



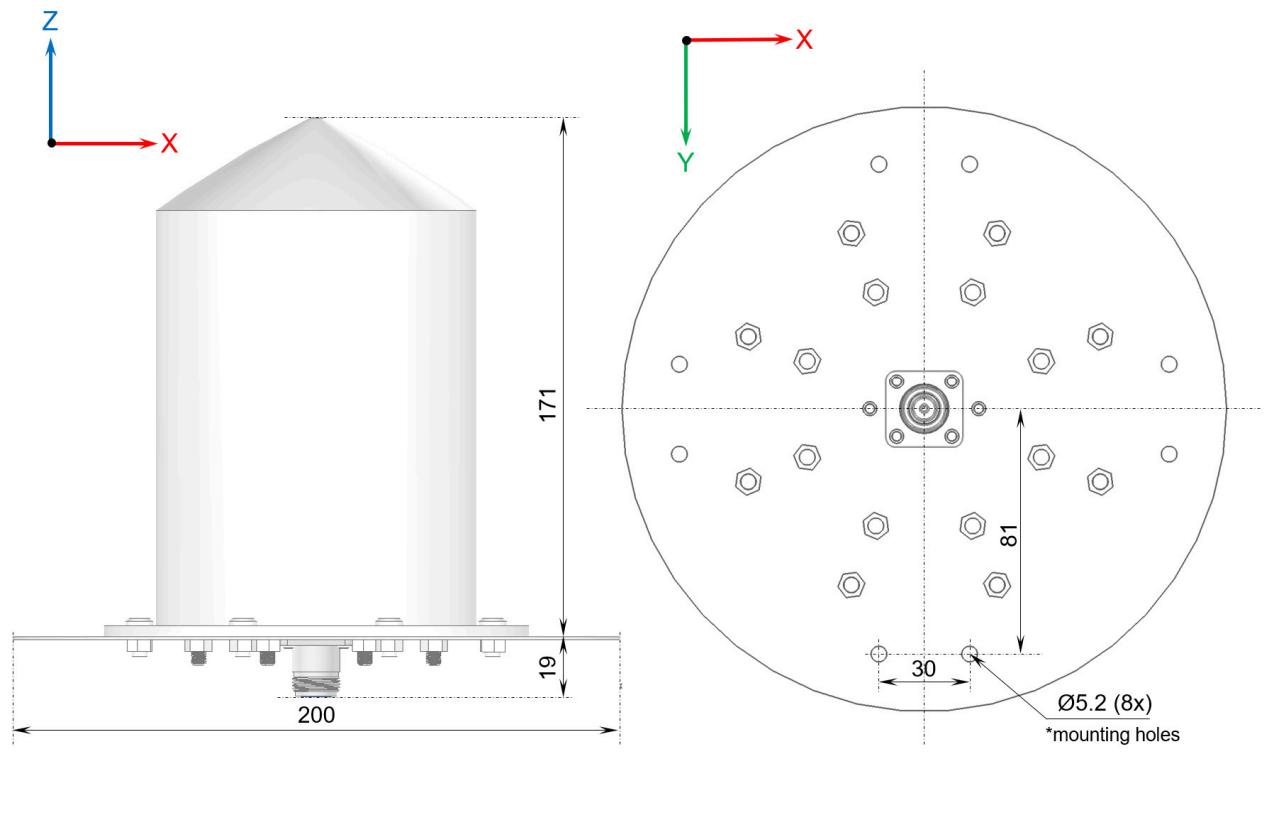
All information (including technical data and pictures) presented in this document is typical and subject to change without notice. Sevskiy is a registered trade mark of Sevskiy GmbH. Copyright © 2009 – 2024 Sevskiy GmbH. All rights reserved. No warranties.

800 MHz ... 1100 MHz Circularly polarized helical antenna for anti-drone jammers

Axial ratio value



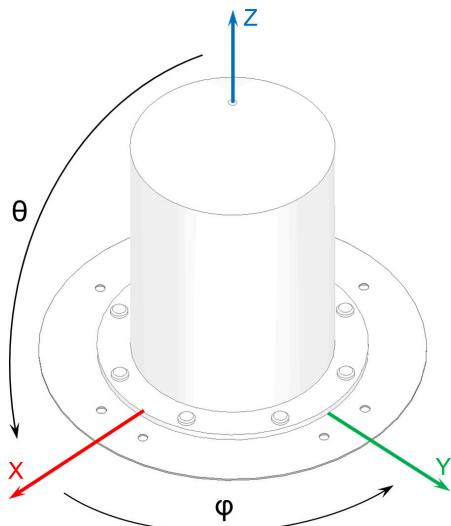
Product dimensions



All information (including technical data and pictures) presented in this document is typical and subject to change without notice. Sevskiy is a registered trade mark of Sevskiy GmbH. Copyright © 2009 – 2024 Sevskiy GmbH. All rights reserved. No warranties.

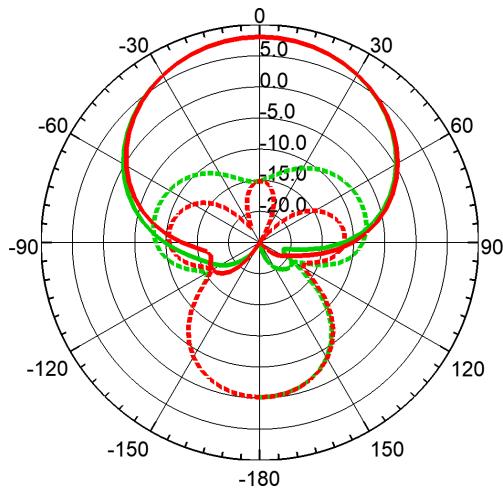
800 MHz ... 1100 MHz Circularly polarized helical antenna for anti-drone jammers

Radiation pattern (total realized gain)

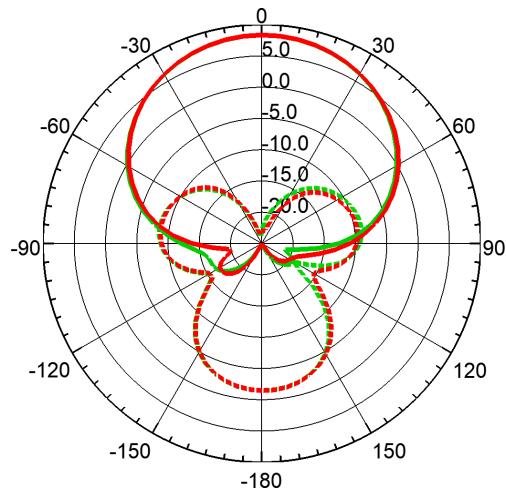


Phi=0°, plane XZ, green curve
Phi=90°, plane YZ, red curve

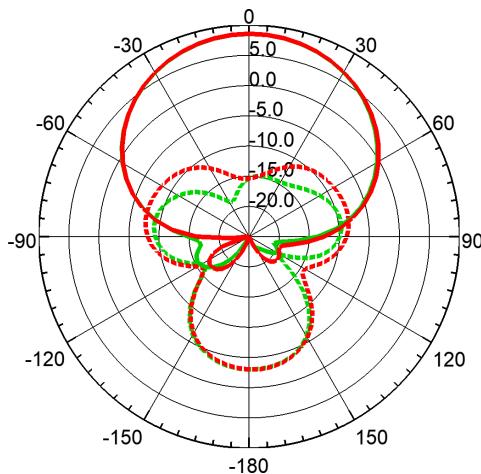
Solid curves – co-polarization RHCP
Dash curves – cross-polarization LHCP



f = 868 MHz



f = 915 MHz



f = 960 MHz

All information (including technical data and pictures) presented in this document is typical and subject to change without notice. Sevskiy is a registered trade mark of Sevskiy GmbH. Copyright © 2009 – 2024 Sevskiy GmbH. All rights reserved. No warranties.