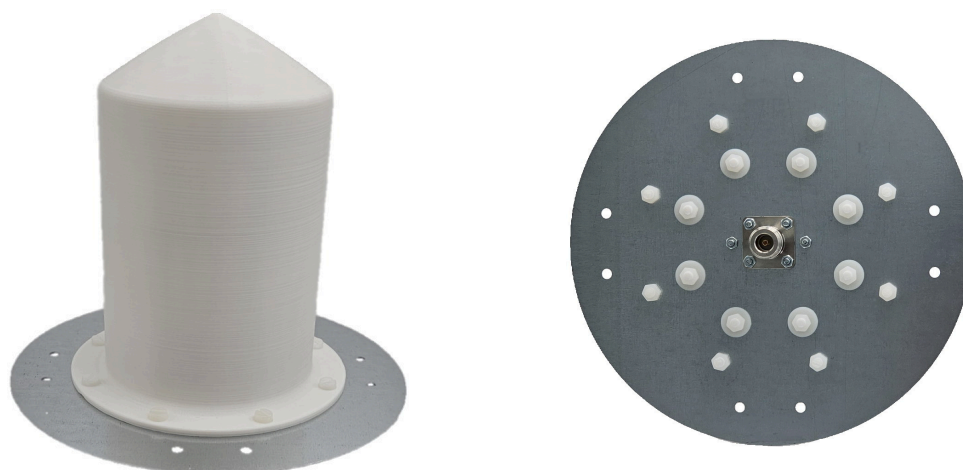


**800 MHz ... 1100 MHz Circularly polarized helical antenna for anti-drone jammers**



**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 <sup>1)</sup>	N Female <sup>1)</sup>
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**

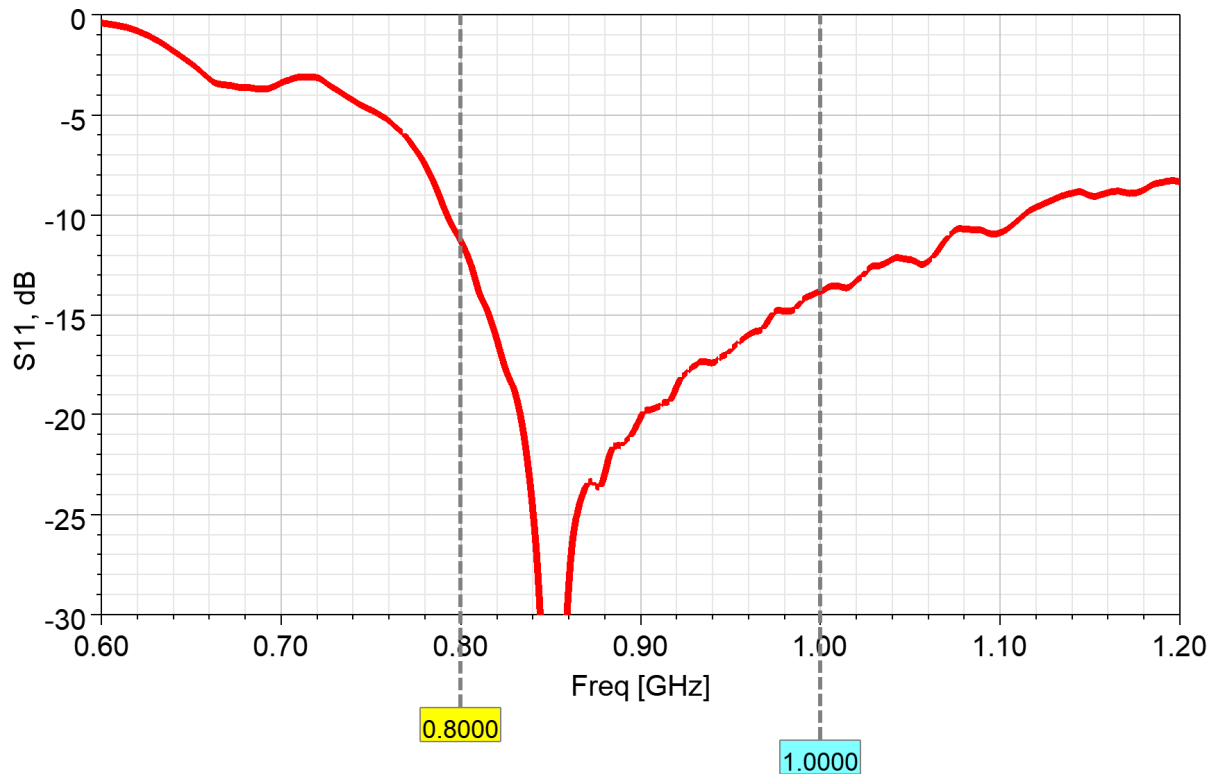
<sup>1)</sup> Other connector types can be offered on request.

Other designs, geometries or materials are possible on request.

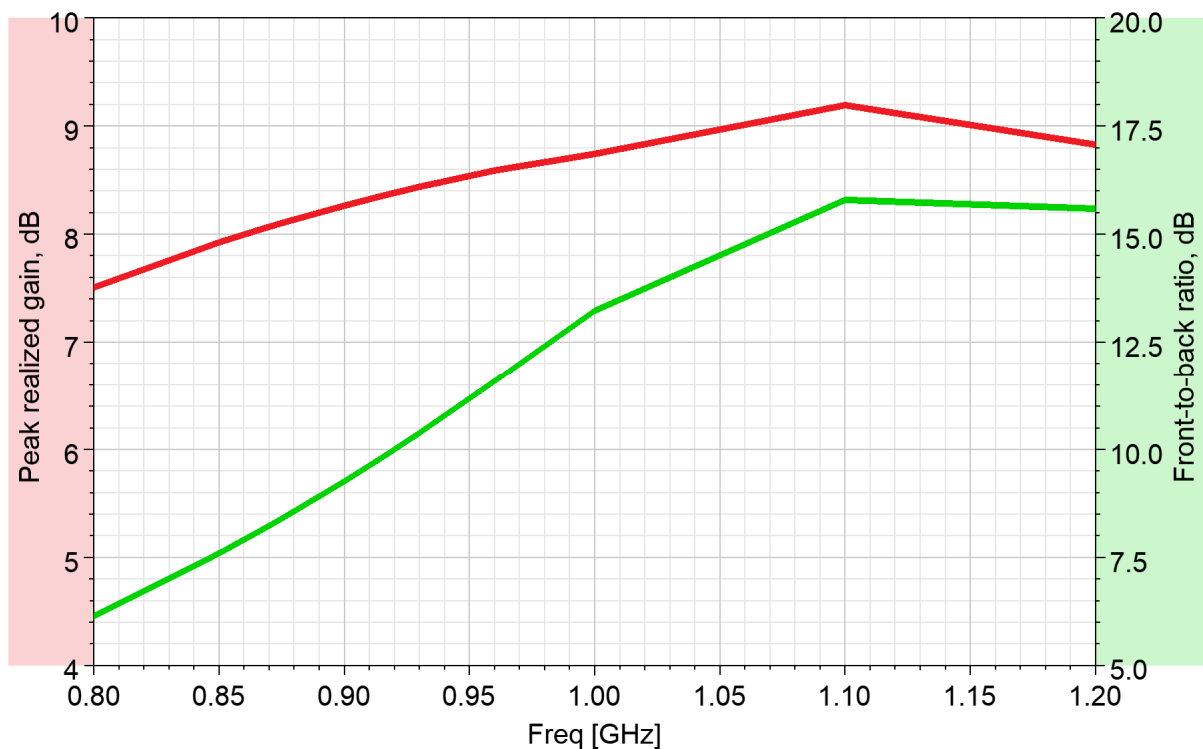
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800 MHz ... 1100 MHz Circularly polarized helical antenna for anti-drone jammers

Measured input impedance matching



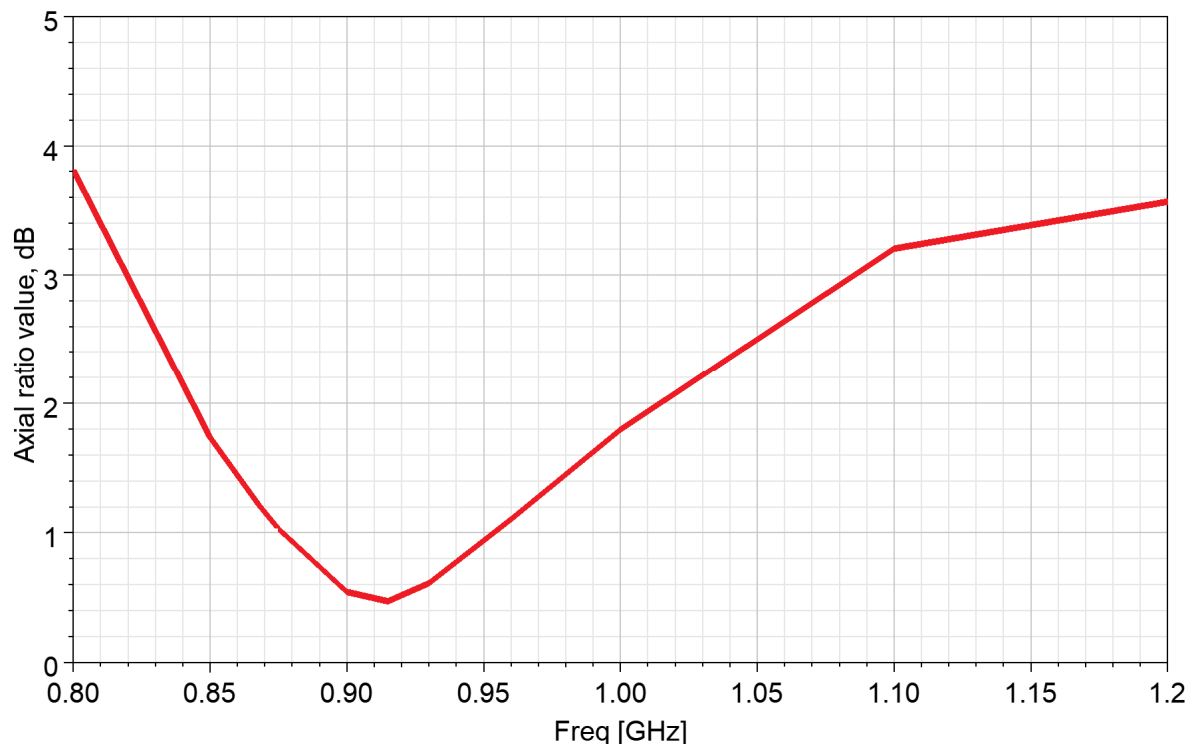
Peak realized gain and front-to-back ratio



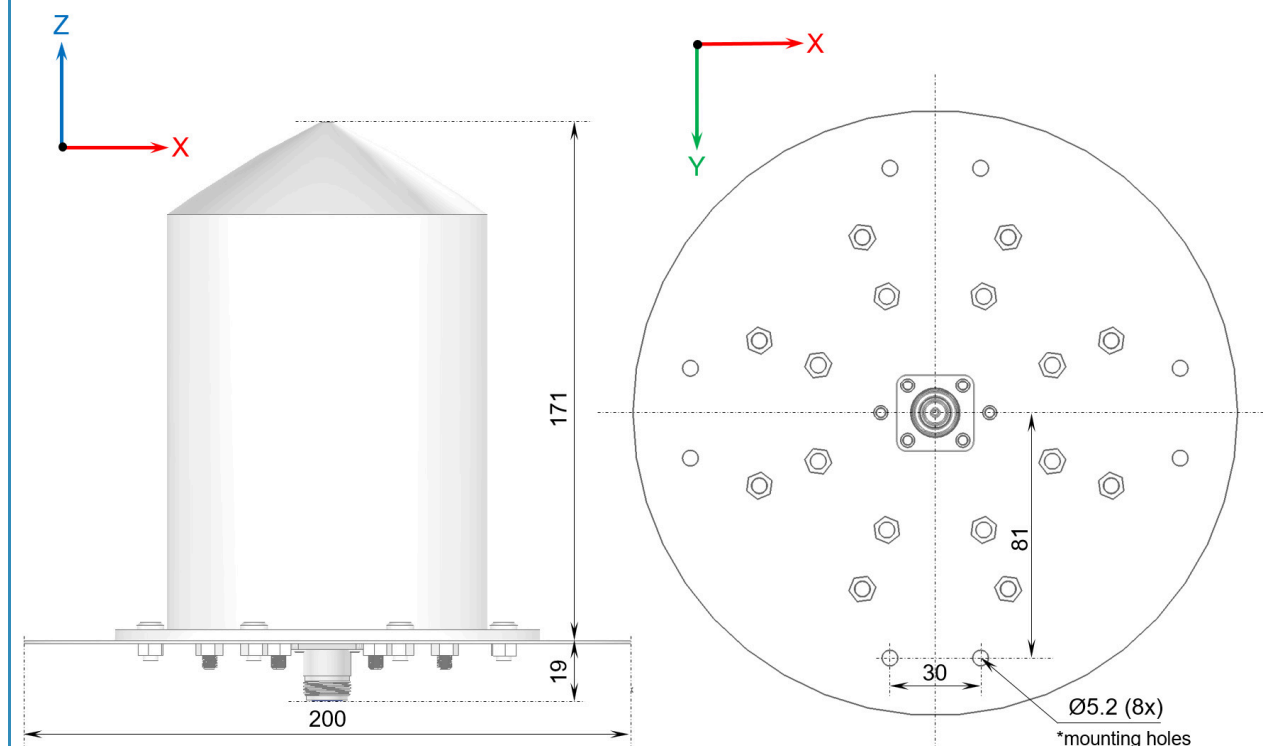
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Axial ratio value



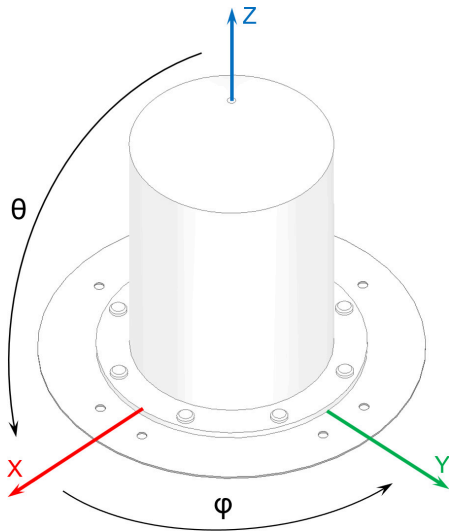
Product dimensions



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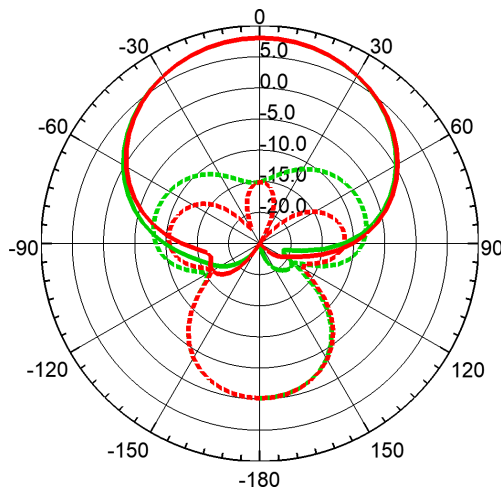
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Radiation pattern (total realized gain)

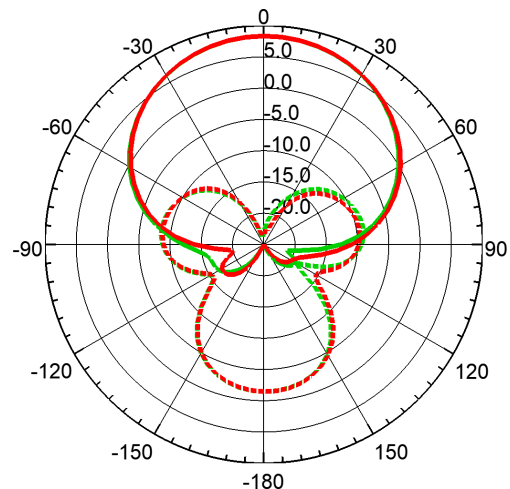


Phi=0°, plane XZ, green curve  
Phi=90°, plane YZ, red curve

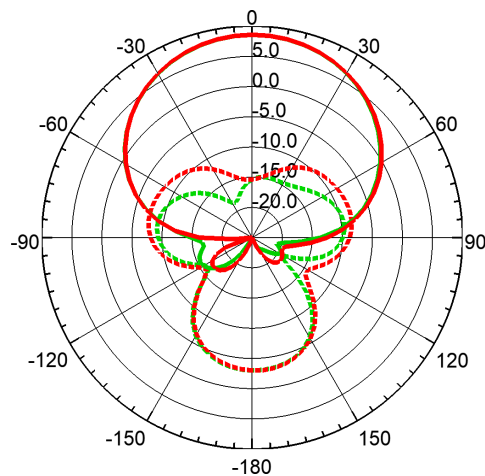
Solid curves – co-polarization RHCP  
Dash curves – cross-polarization LHCP



f = 868 MHz



f = 915 MHz



f = 960 MHz

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