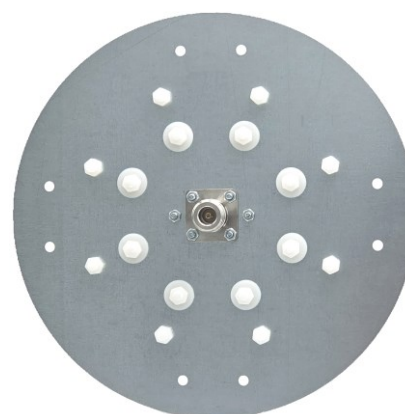


**800 MHz ... 1100 MHz Circularly polarized helical antenna for anti-drone jammers**



**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**

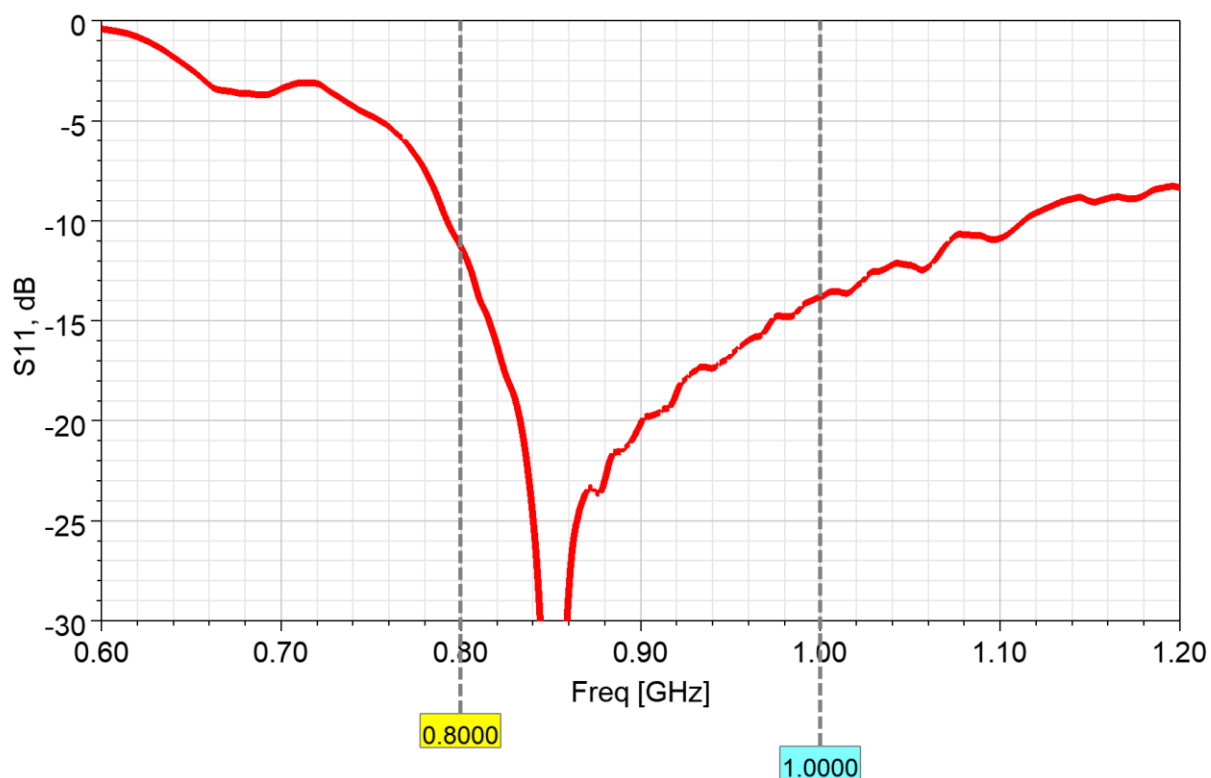
<sup>1)</sup> Other connector types can be offered on request.

Other designs, geometries or materials are possible on request.

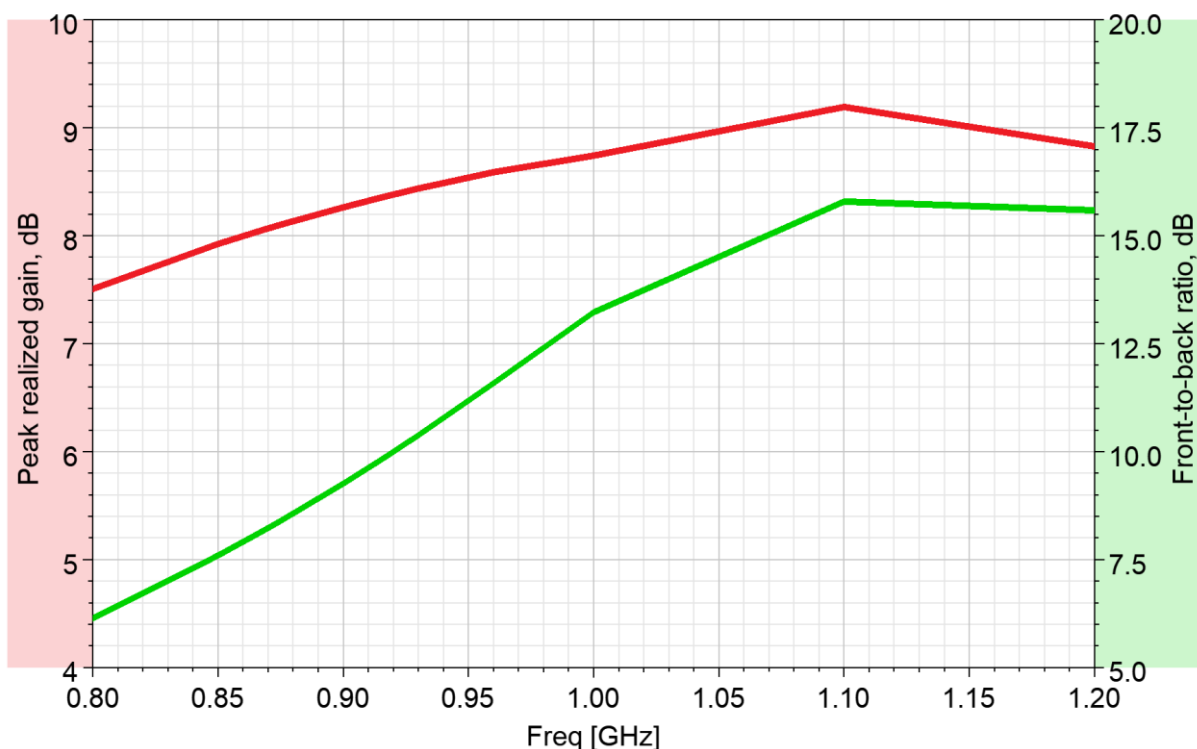
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800 MHz ... 1100 MHz Circularly polarized helical antenna for anti-drone jammers

Measured input impedance matching



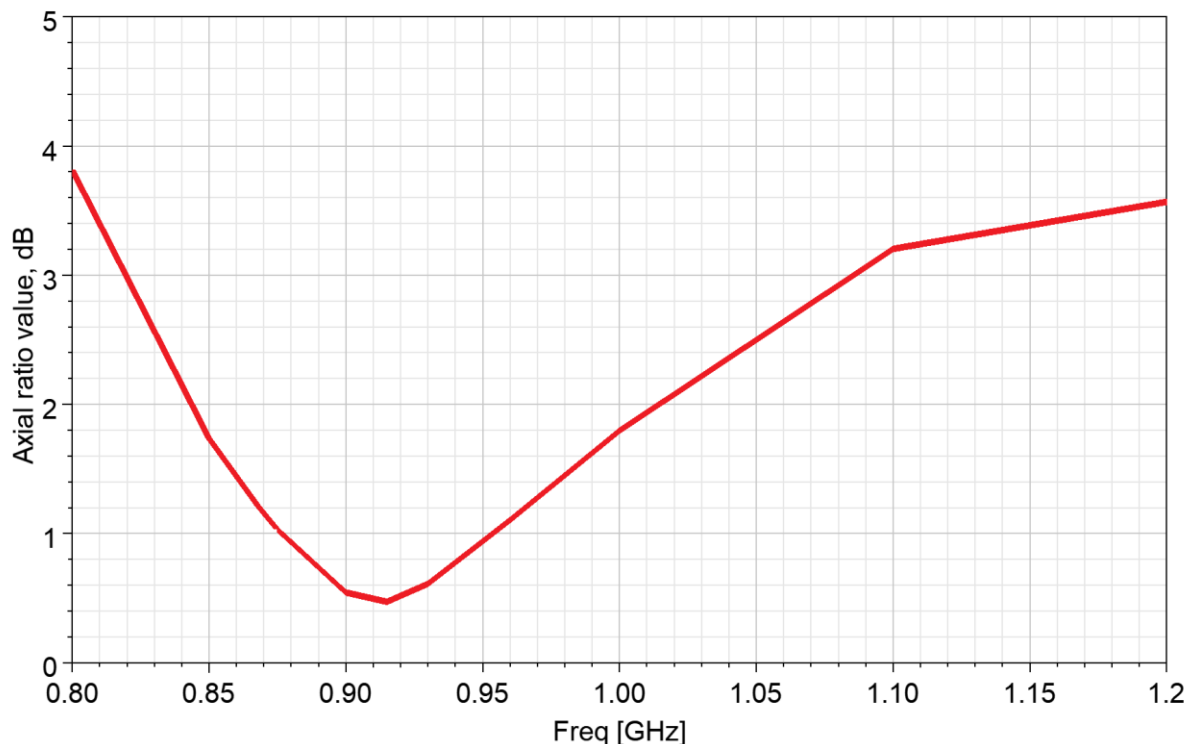
Peak realized gain and front-to-back ratio



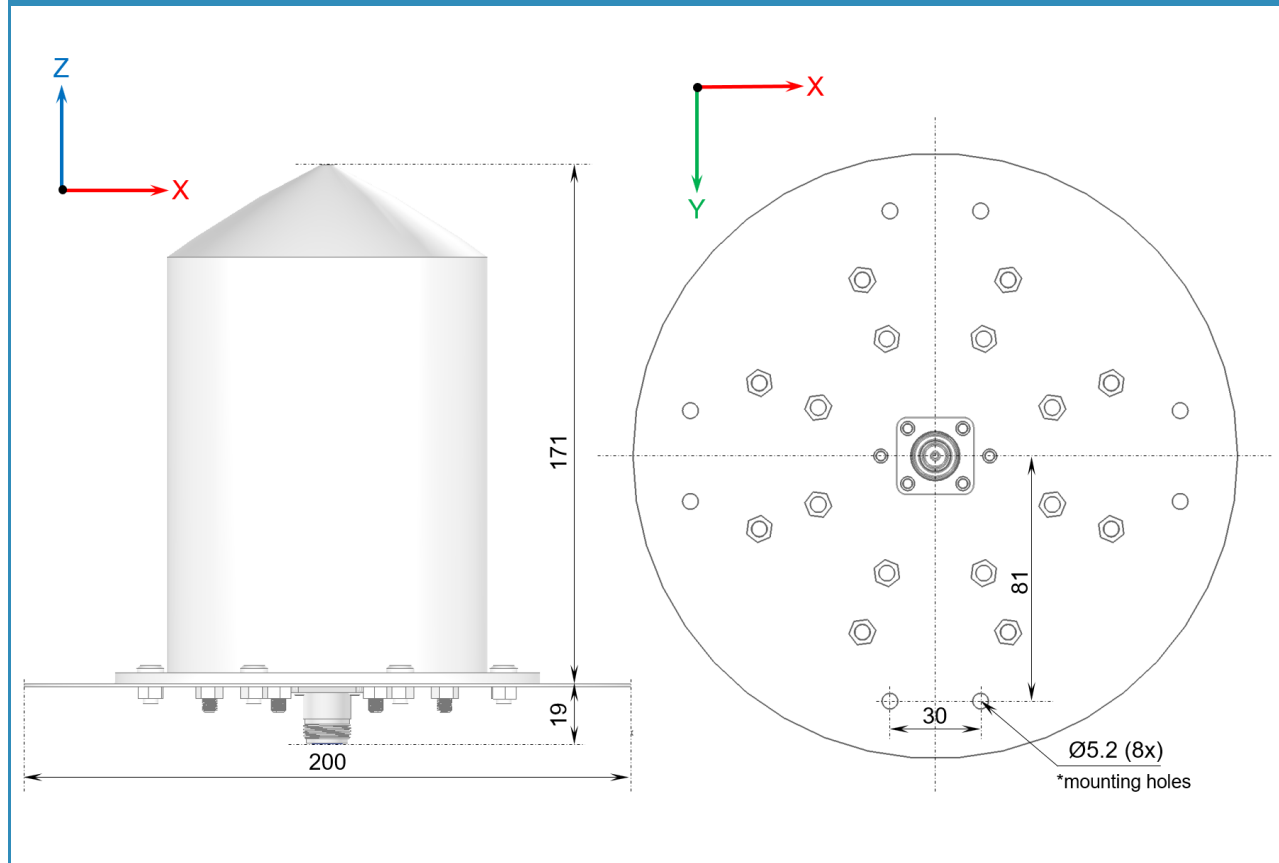
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Axial ratio value



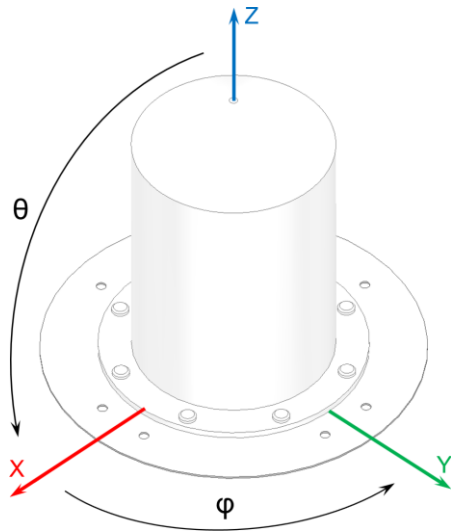
Product dimensions



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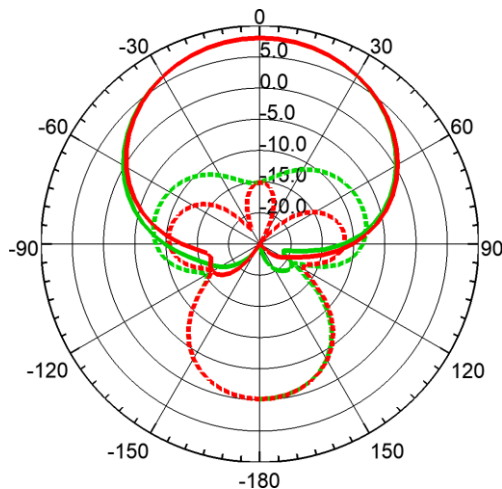
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Radiation pattern (total realized gain)

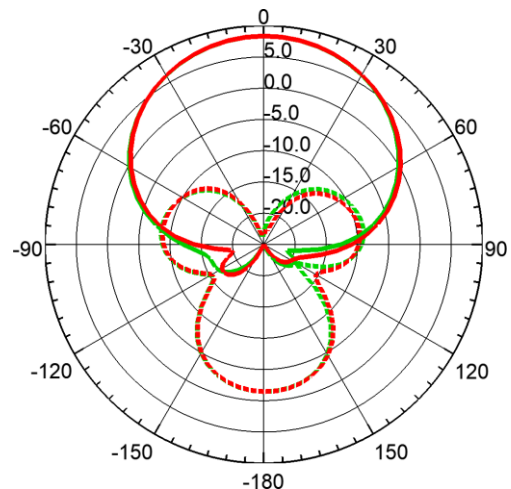


Phi=0°, plane XZ, green curve  
Phi=90°, plane YZ, red curve

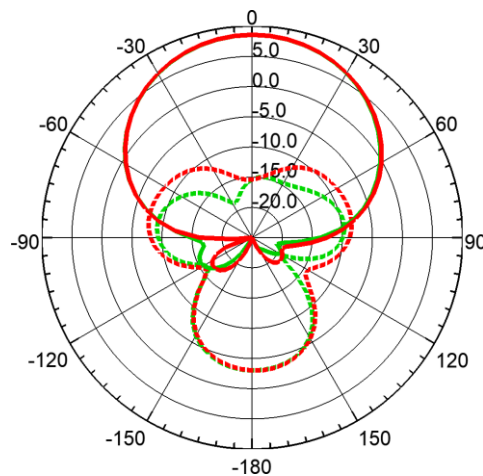
Solid curves – co-polarization RHCP  
Dash curves – cross-polarization LHCP



$f = 868 \text{ MHz}$



$f = 915 \text{ MHz}$



$f = 960 \text{ MHz}$

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