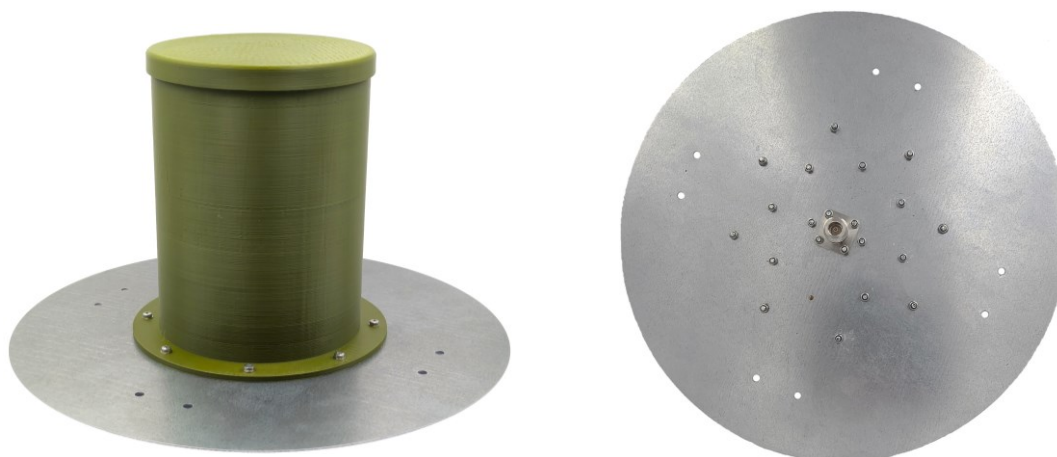


680 MHz ... 1150 MHz Circularly polarized helical antenna for anti-drone jammers

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]	680...1150
Return loss [dB]	-10
Peak gain [dBi]	7...10
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]	300 x 300 x 188
Connector type ¹⁾	N Female ¹⁾
Material	Steel, plastic, copper
Weight [g]	925

Environmental data

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

Additional information

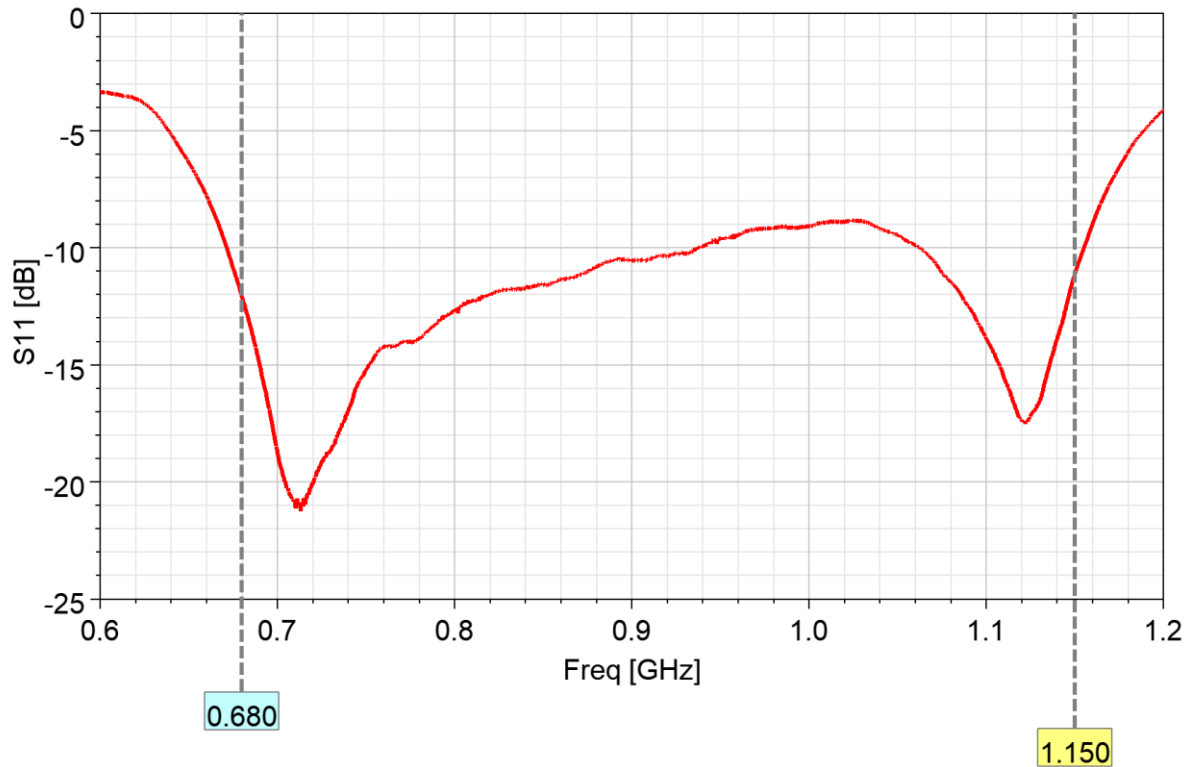
¹⁾ Other connector types can be offered on request.

Other designs, geometries or materials are possible on request.

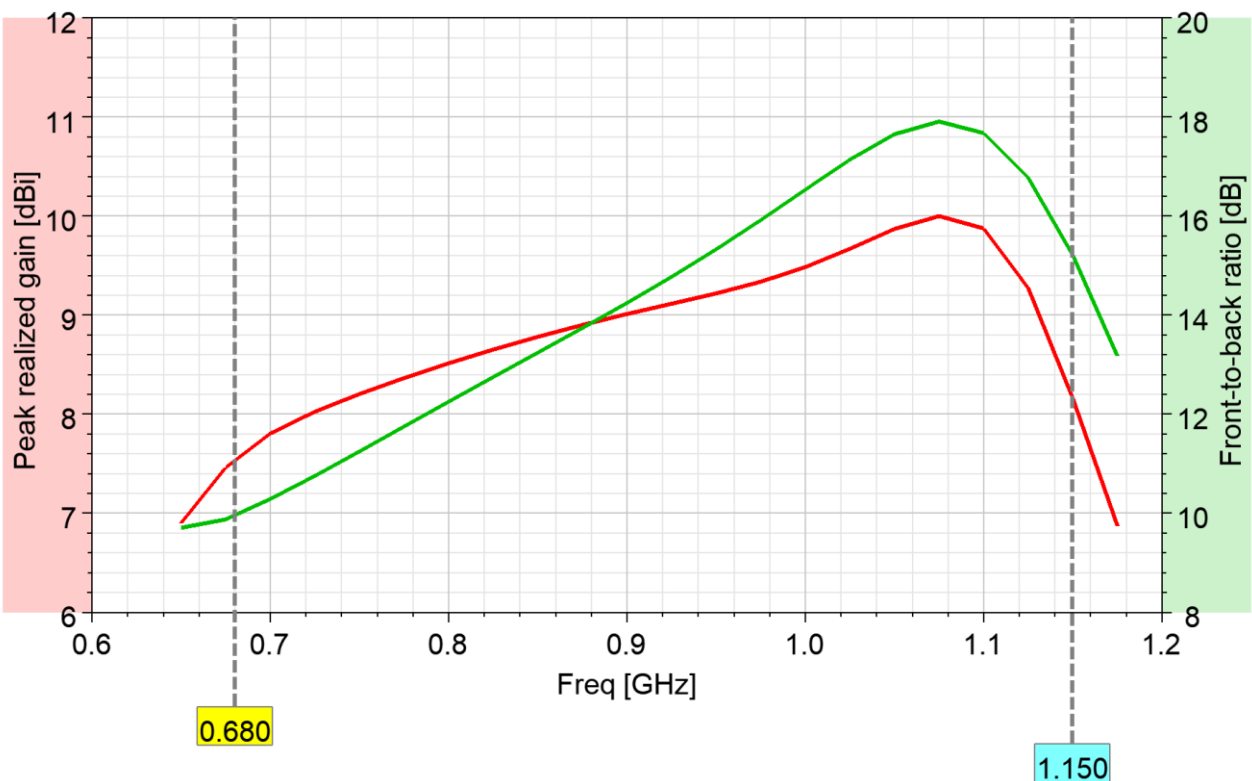
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Measured input impedance matching



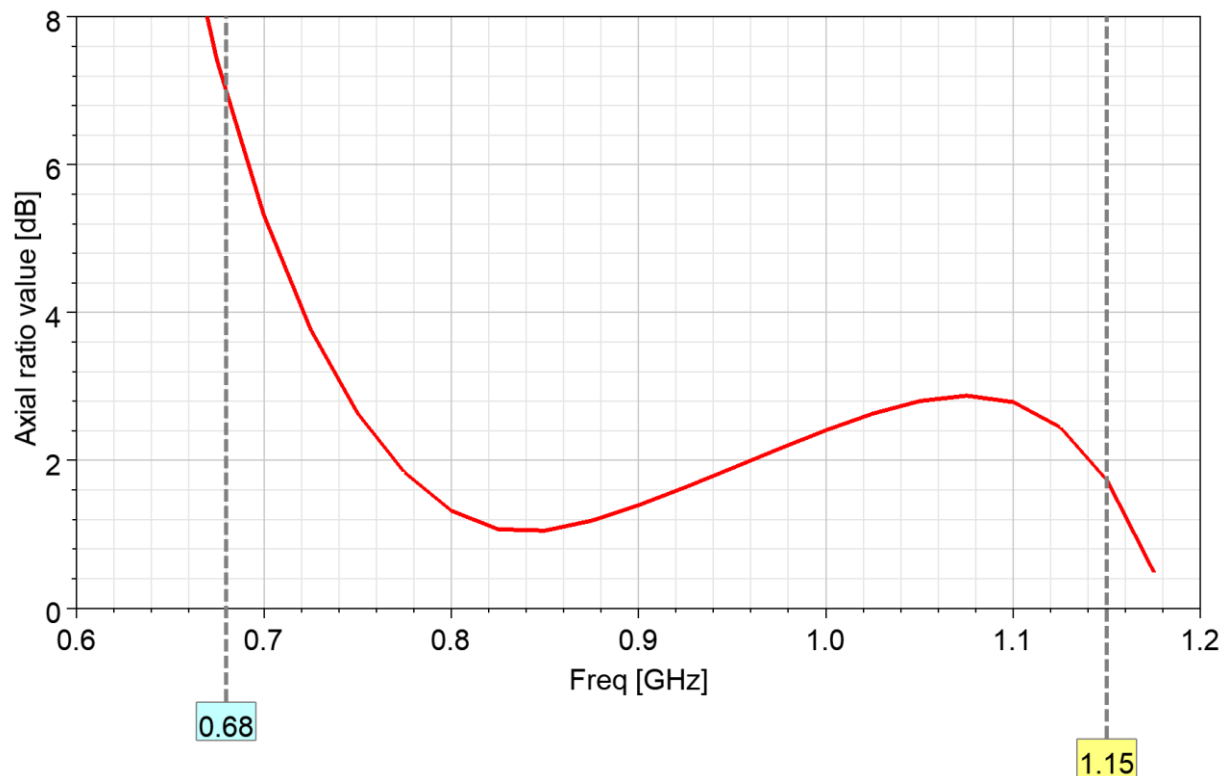
Peak realized gain and front-to-back ratio



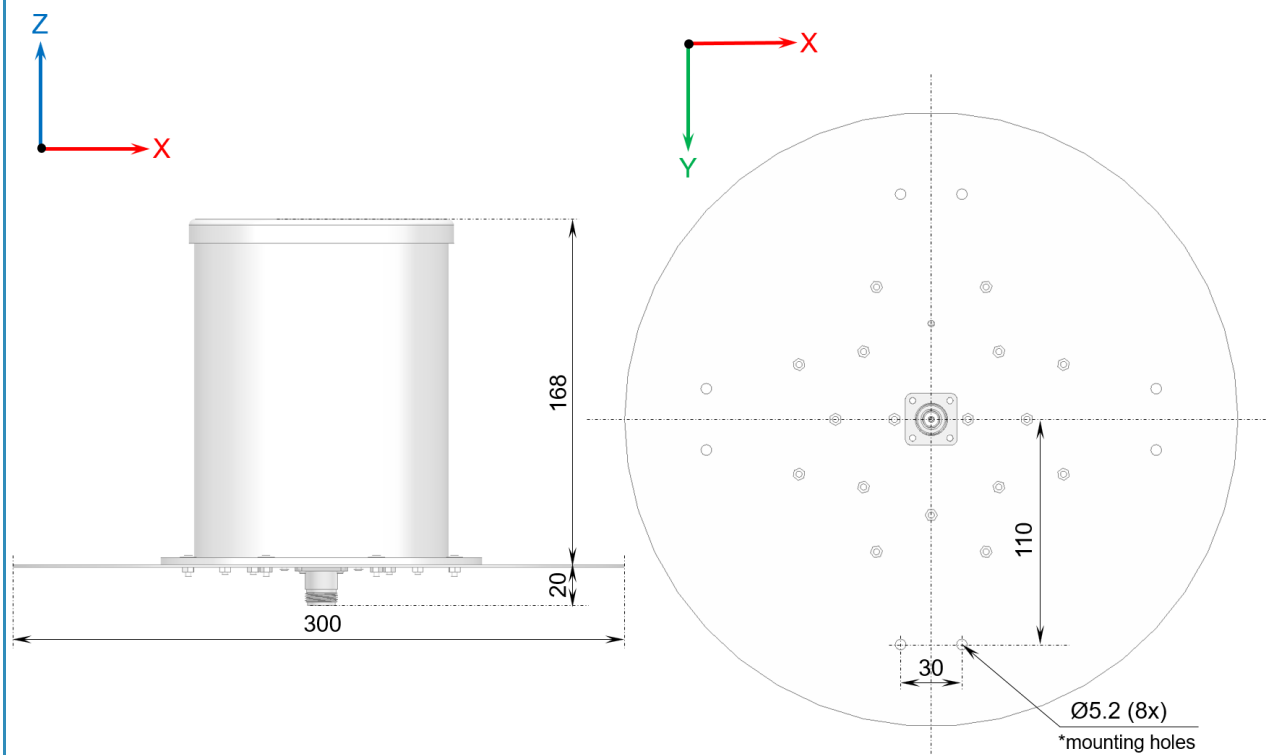
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Axial ratio value



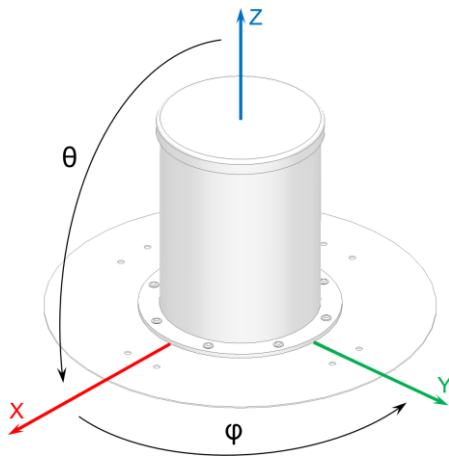
Product dimensions



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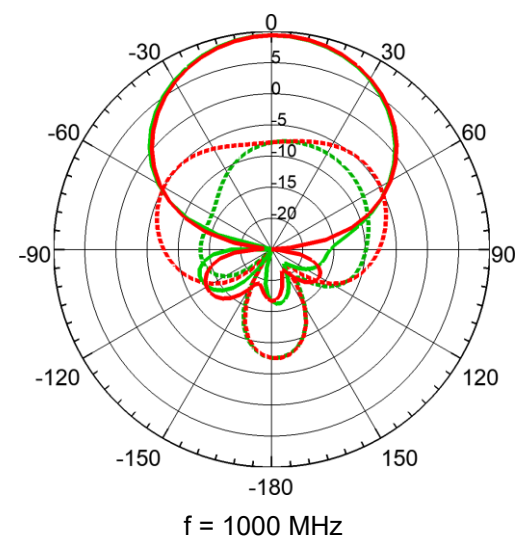
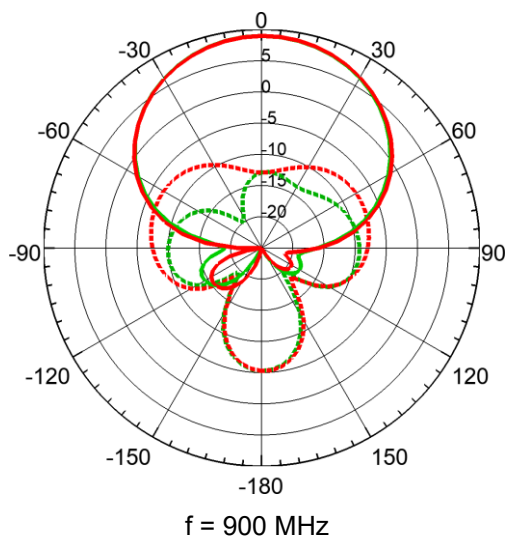
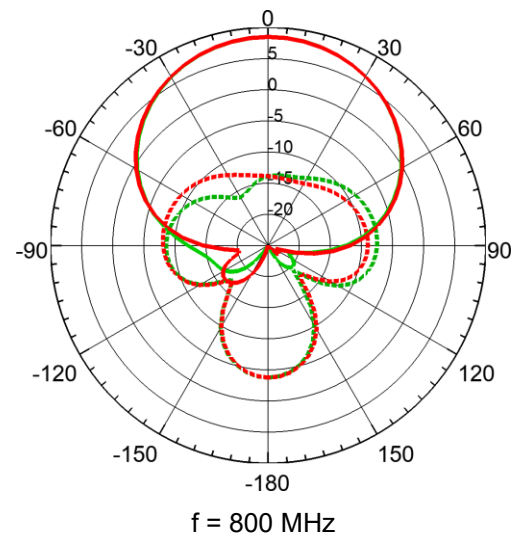
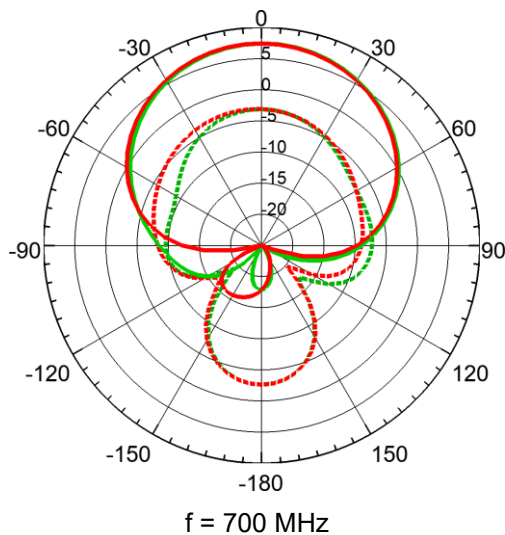
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Radiation patterns (total realized gain)



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

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



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