### AN220211-02N Rev. 002



900 MHz circularly polarized helical antenna with a hemispherical radiation pattern





#### General information

Circularly polarized helical antenna for various applications including laboratory measurements, spectrum monitoring, drone control etc.

Typical applications	
ISM, RFID, IoT (Sigfox, LoRa), LTE, Smart meters, drone control	
Electrical data	
Antenna type	Helical antenna
Frequency bands	SRD860 (EU), ISM915 (US)
Frequency range [MHz]	8001000
Return loss [dB]	-10
Peak gain [dBi]	79
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 <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 [%]	095
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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1.00

Freq [GHz]

0.85

0.90

0.95

6

5

4

0.80

1.05

1.10

1.15

7.5

5.0

1.20

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## TECHNICAL DATA SHEET

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