

868 MHz / 915 MHz PCB Antenna (ISM, IoT, Sigfox, LoRa)



**General information**

This antenna is intended to be used within a plastic housing of a mobile device or a gateway. The antenna geometry can be optimized for customer's housing design and material properties.

**Typical applications**

ISM, RFID, IoT (Sigfox, LoRa), LP-WAN, Smart meters

**Electrical data**

Antenna type	Embedded PCB antenna
Frequency range	860...925 MHz
Nominal input impedance	50 Ohm
Return loss	-7 dB
Maximum gain	1.4 dBi
Radiation efficiency	62 %
Polarization	linear
Radiation pattern	omnidirectional
Maximum input power	10 W

**Mechanical data**

Antenna dimensions (without SMT connector)	35 mm x 17 mm x 1 mm
Connector type *	IPEX MHF1 / U.FL (UMCC) compatible *
Recommended cable type and thickness **	microcoax 1.13 mm **
Recommended cable length ***	200 mm ***
PCB material	FR4
PCB colour	green

**Environmental data**

Ambient operating temperature	-40°C to +85°C
Storage temperature	-40°C to +85°C
Ambient relative humidity	40% to 95%
RoHS compliant	Yes

**Additional information**

\* Other connector or cable connection types can be offered on request.

\*\* Following thicknesses can be used with IPEX connector: 0.81mm, 1.13mm, 1.32mm, 1.37mm.

\*\*\* Other cable types and lengths can be used. Cable is not included.

Other mechanical or material changes or frequency bands are possible on request.

The antenna can be additionally equipped with adhesive tape and mounting holes.

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