

868 MHz / 915 MHz / 2 GHz / 2.45 GHz PCB Antenna (IoT, RFID, Bluetooth, WLAN, 3G)



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, Bluetooth, WLAN, 3G (UMTS)

Electrical data

Antenna type	Embedded PCB antenna
Frequency range	860...925MHz / 1.9...2.2GHz / 2.41...2.485GHz
Nominal input impedance	50 Ohm
Return loss	-6 dB / -6 dB / -10 dB
Maximum gain	1.3 dBi / 2.3 dBi / 4.2 dBi
Radiation efficiency	61 % / 64 % / 65 %
Polarization	linear
Radiation pattern	omnidirectional
Maximum input power	10 W

Mechanical data

Antenna dimensions (without SMT connector)	42 mm x 20 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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