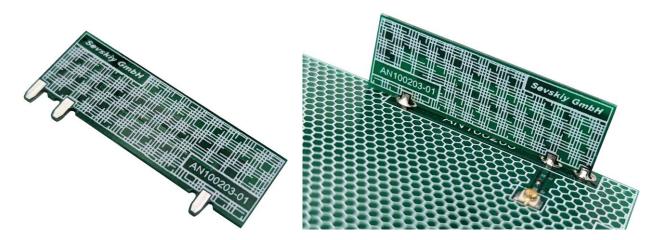


## 863 MHz / 924 MHz PCB Antenna (ISM, RFID, IoT, LP-WAN, Smart meters)



#### **General information**

This small antenna is intended to be soldered to the main PCB of a mobile device, a router or a gateway. On request, 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 / internal antenna soldered on the main PCB
Frequency band	SRD860 (EU), ISM915 (US)
Frequency range [MHz]	863924
Return loss [dB] 1)	-10
Peak gain [dBi]	1.6
Radiation efficiency [%]	72
Nominal input impedance [Ohm]	50
Polarization	linear
Radiation pattern	omnidirectional
Maximum input power [W]	5

Mechanical data		
Antenna PCB dimensions [mm]	39 x 15.8 x 0.8	
PCB material	FR4	
Weight [g]	0.9	

Environmental data		
Operating temperature [°C]	-40+85	
Storage temperature [°C]	-40+85	
Ambient relative humidity [%]	095	
RoHS / REACH compliant	yes / yes	

### **Additional information**

All electrical data have been obtained in free space on the reference board (not included) with the following dimensions: 120mm x 60mm x 0.8mm. Please note that the performance in the lower frequency bands is dependent on the ground plane length and may degrade in case of reducing the board size.

Other mechanical designs, materials or frequency bands are possible on request.

Further customization, electromagnetic simulations and measurements can be offered on request.

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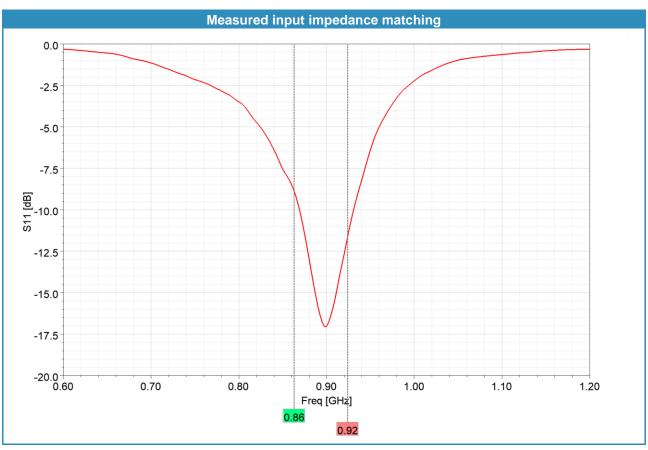
Tel.: +49 89 38-90-7229

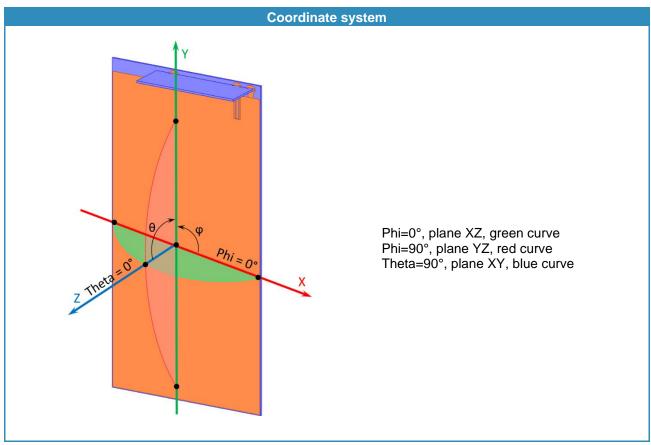
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# 863 MHz / 924 MHz PCB Antenna (ISM, RFID, IoT, LP-WAN, Smart meters)





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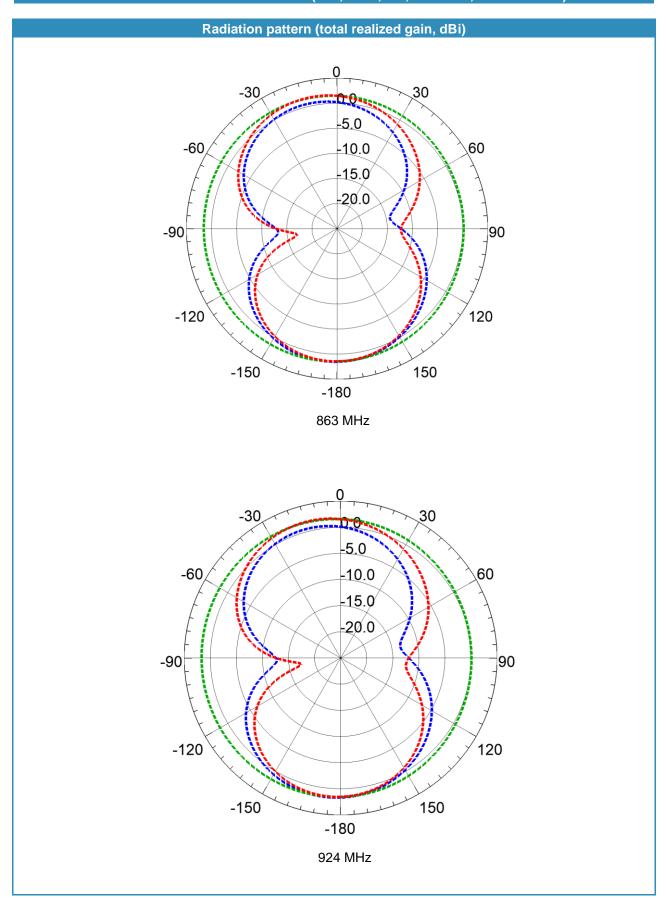
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863 MHz / 924 MHz PCB Antenna (ISM, RFID, IoT, LP-WAN, Smart meters)



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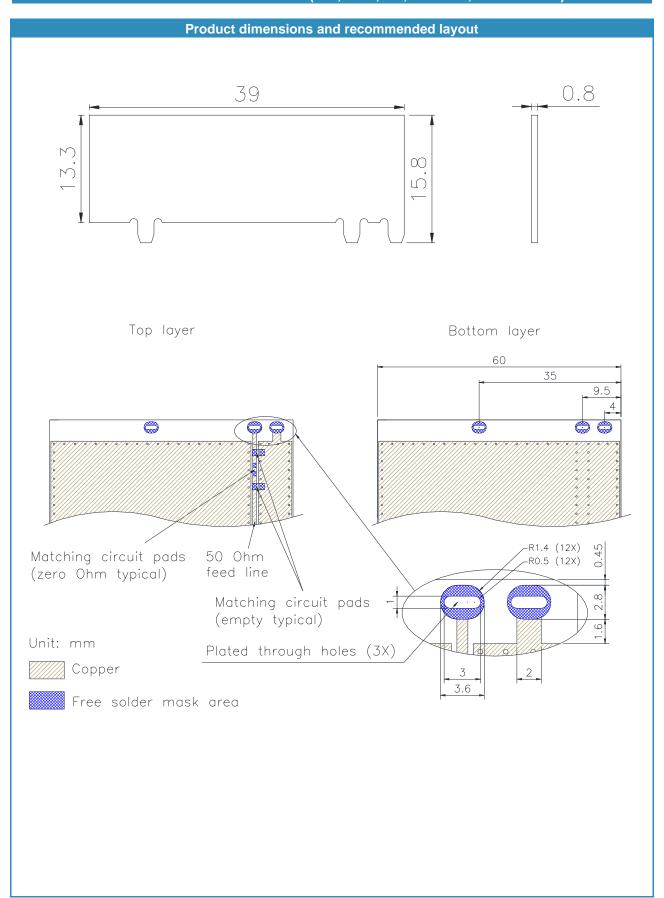
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RF & Antenna Development

863 MHz / 924 MHz PCB Antenna (ISM, RFID, IoT, LP-WAN, Smart meters)



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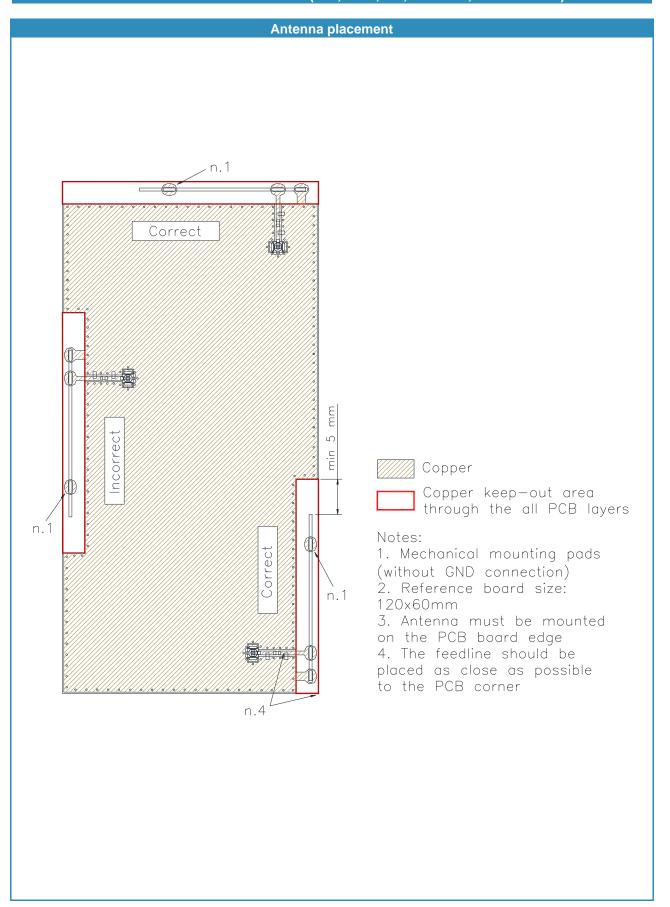
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