AN100204-01S

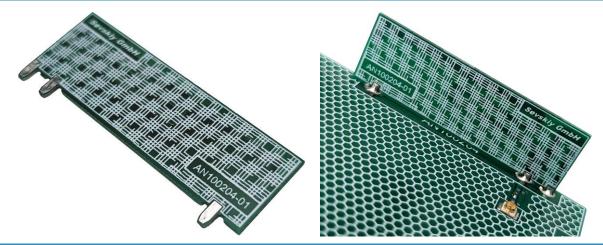
TECHNICAL

DATA SHEET

Rev. 001



863 MHz / 960 MHz / 2450 MHz PCB Antenna (ISM, RFID, IoT, LP-WAN, Smart meters, Wi-Fi 2.4 GHz)



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, Wi-Fi 2.4 GHz

		Electrical data
Antenna type	Embedded / internal antenna soldered on the main PCB	
Frequency band	SRD860 (EU), ISM915 (US), ISM2400	
Frequency range [MHz]	863960	24002500
Return loss [dB] 1)	-8	-8
Peak gain [dBi]	1.6	2.7
Radiation efficiency [%]	73	67
Nominal input impedance [Ohm]	50	
Polarization	linear	
Radiation pattern	omnidirectional	
Maximum input power [W]	5	

Mechanical data		
Antenna PCB dimensions [mm]	45 x 17.5 x 0.8	
PCB material	FR4	
Weight [g]	1.1	

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.

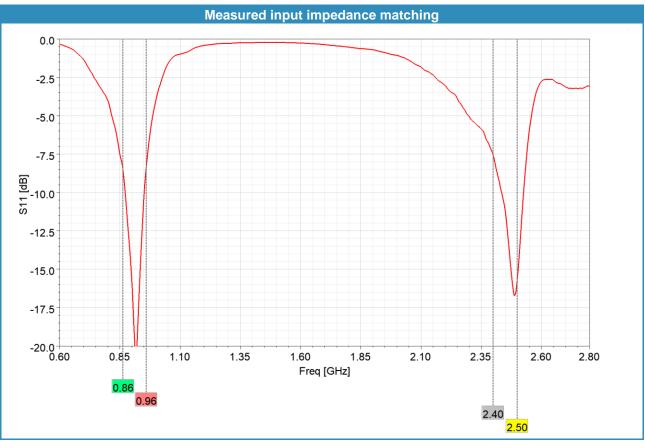
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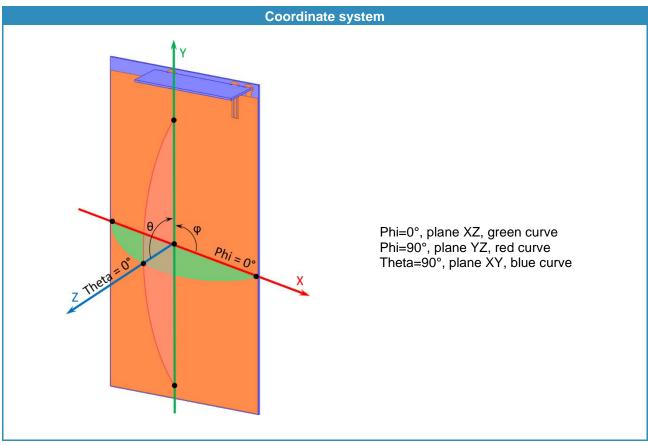
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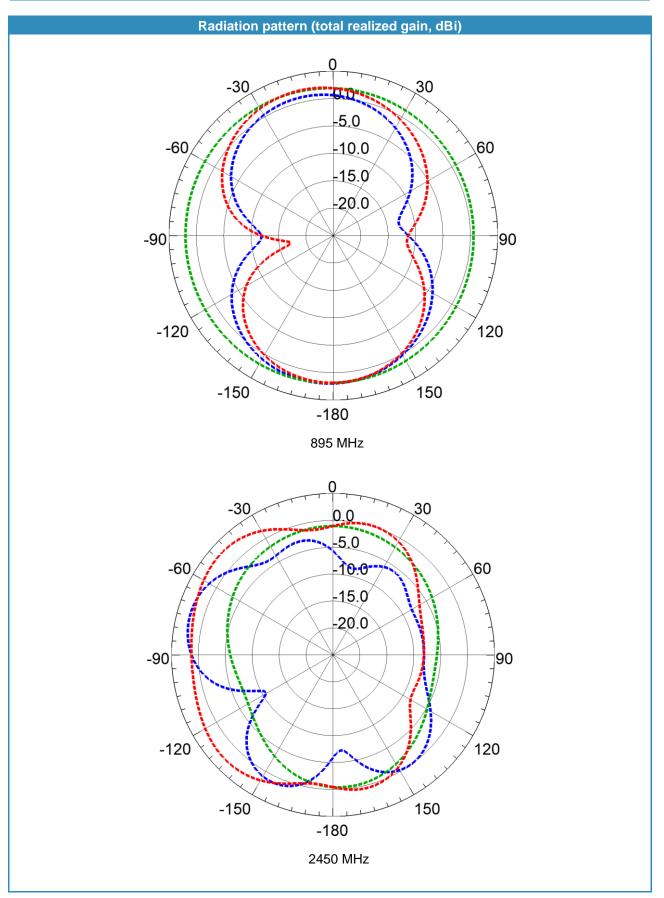




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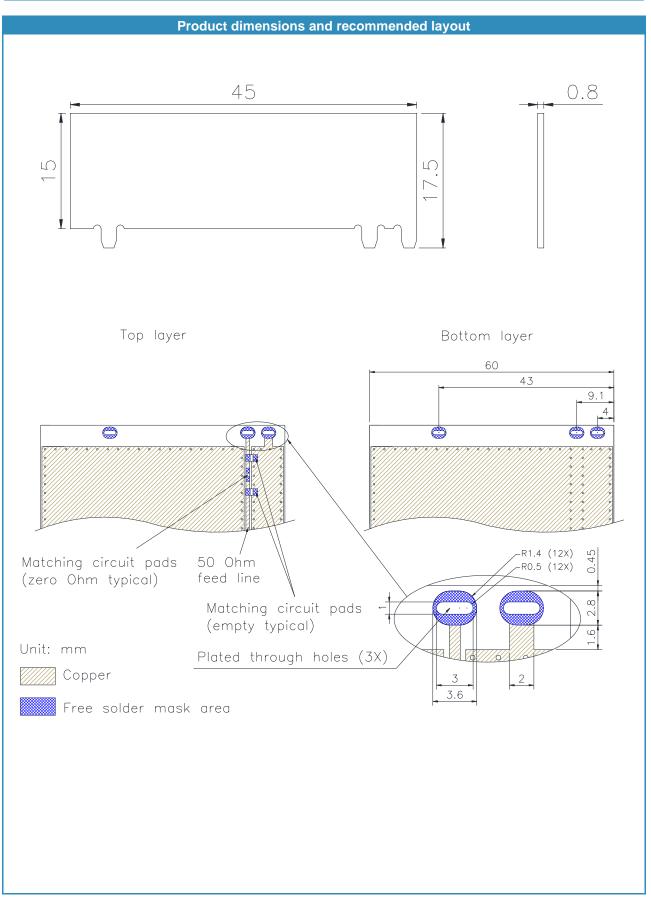
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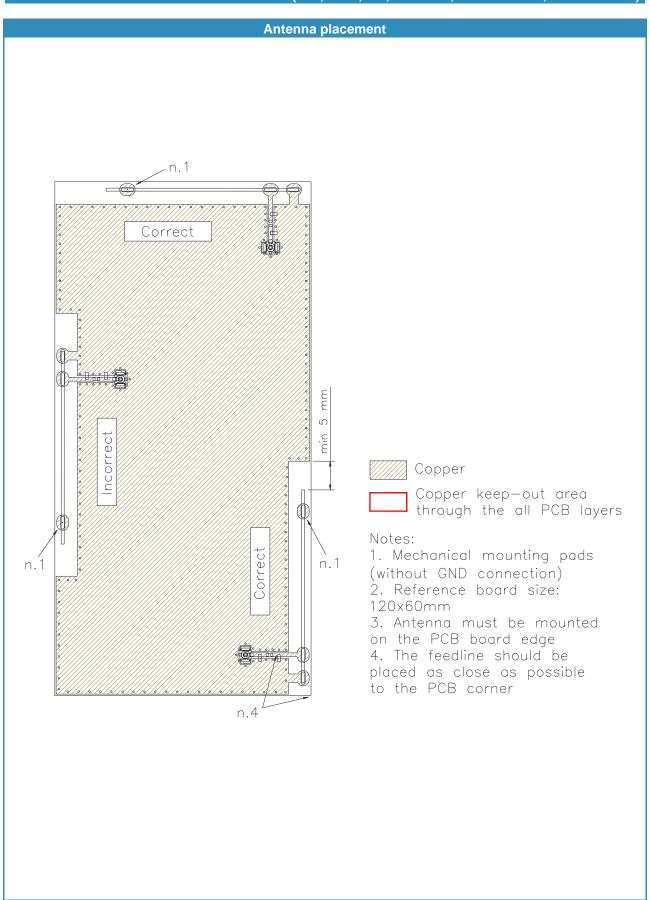
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