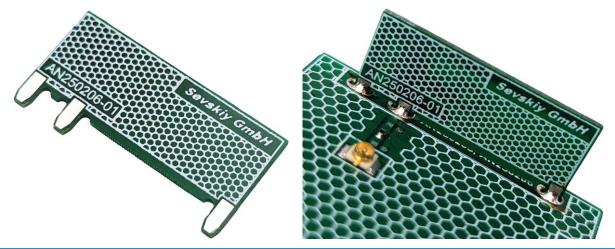
AN250206-01S

Rev. 001



2.4 GHz / 2.5 GHz / 5.15 GHz / 5.85 GHz PCB Antenna (ISM, IoT, Bluetooth, WLAN, Wi-Fi)



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, IoT, RFID, Bluetooth, WLAN, Wi-Fi

Electrical data		
Antenna type	Embedded / internal antenna soldered on the main PCB	
Frequency band	ISM2400, Wi-Fi 2.45/5.5 GHz	
Frequency range [MHz]	24002500	51505850
Return loss [dB] 1)	-12	-10
Peak gain [dBi]	2.5	3.6
Radiation efficiency [%]	76	71
Nominal input impedance [Ohm]	50	
Polarization	linear	
Radiation pattern	omnidirectional	
Maximum input power [W]	5	

Mechanical data		
25 x 12.5 x 0.8		
FR4		
0.45		

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: 50mm x 35mm 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.

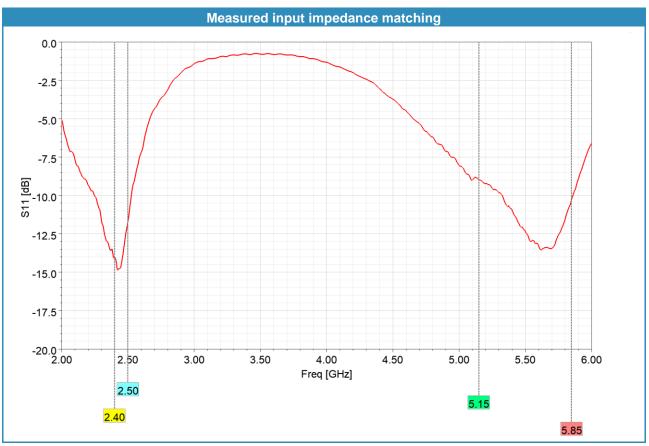
Further customization, electromagnetic simulations and measurements can be offered on request.

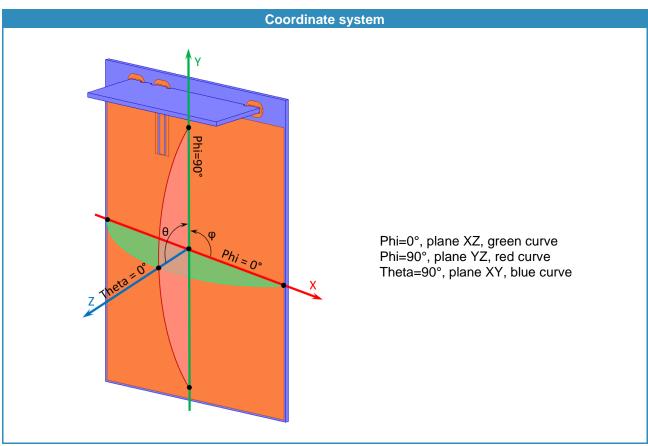
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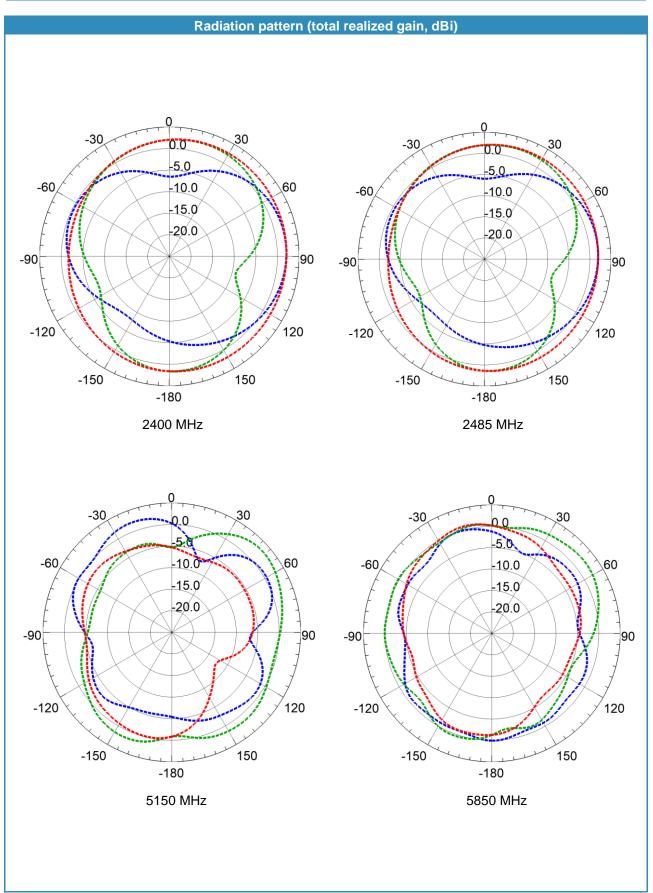
Tel.: +49 89 38-90-7229 Fax: +49 89 38-90-7230

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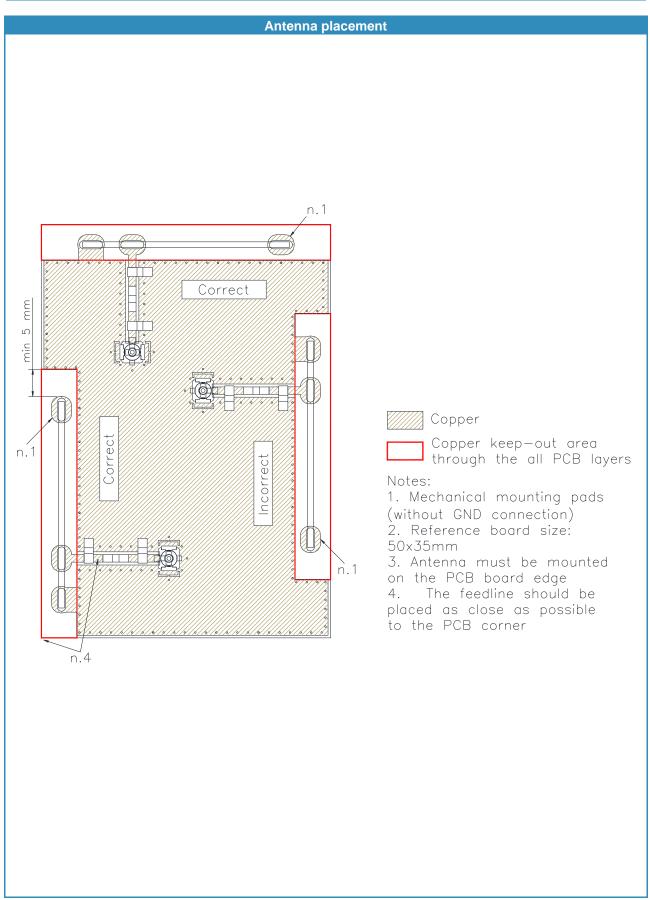
Product dimensions and recommended layout 25 0.8 \Box \bigcirc \bigtriangledown Top layer Bottom layer 35 29 24 6 Ċ \bigcirc Ċ Ċ R1.25 (12X) 50 Ohm R0.5 (12X) feed line \sim Matching circuit pads (empty typical) ഹ Matching circuit pads 2. (zero Ohm typical) 0.65 3 2.8 Plated through holes (3X) 3.2 Copper Free solder mask area Unit: mm

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