AN110206-01S

TECHNICAL

DATA SHEET

Rev. 004



698 MHz / 960 MHz / 1710 MHz / 2700 MHz / 3300 MHz / 5925 MHz PCB Antenna (5G, LTE, Wi-Fi, IoT)



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

5G NR, LTE, 3G, GSM, CDMA, DCS, PCS, WCDMA, UMTS, HSPDA, GPRS, EDGE, IMT, Wi-Fi, IoT

Electrical data					
Antenna type	Embedded / internal antenna soldered on the main PCB				
5G bands	1 - 3, 5, 7, 8, 12 - 14, 18, 20, 25, 26, 28 - 30, 34, 38 - 41, 46 - 48, 53, 65, 66, 70, 77 - 84, 86, 89, 90, 91u - 94u, 95, 97, 98				
4G bands	1 - 14, 17 - 20, 22 - 30, 33 - 44, 46 - 49, 52, 53, 65 - 70, 85				
Frequency range [MHz]	698960	16952700	33004200	44005000	51505925
Return loss [dB] 1)	-10	-10	-6	-10	-7
Peak gain [dBi]	-0.3	0.8	3.4	5.1	2.2
Radiation efficiency [%]	46	42	58	53	48
Nominal input impedance [Ohm]	50				
Polarization	linear				
Radiation pattern	omnidirectional				
Maximum input power [W]	5				

Mechanical data				
Antenna PCB dimensions [mm]	55 x 22.5 x 1.6			
PCB material	FR4			
Weight [g]	4			

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:130mm x 65mm 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.

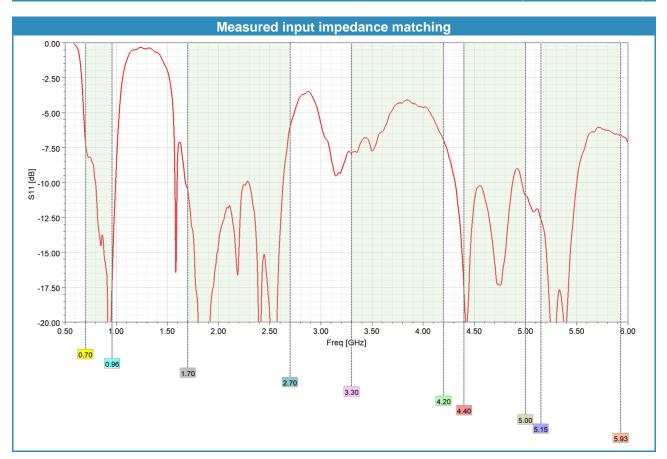
Further customization, electromagnetic simulations and measurements can be offered on request.

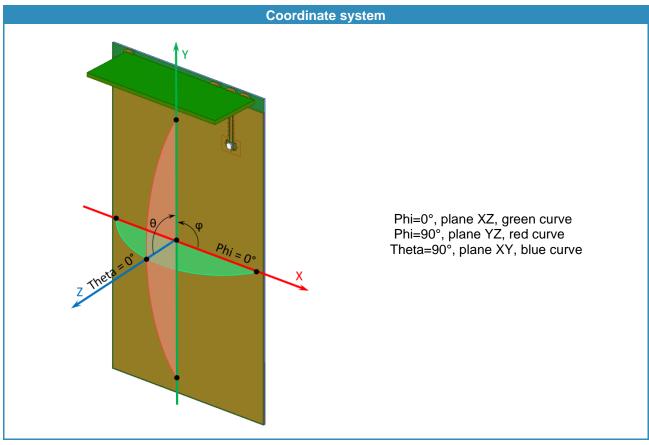
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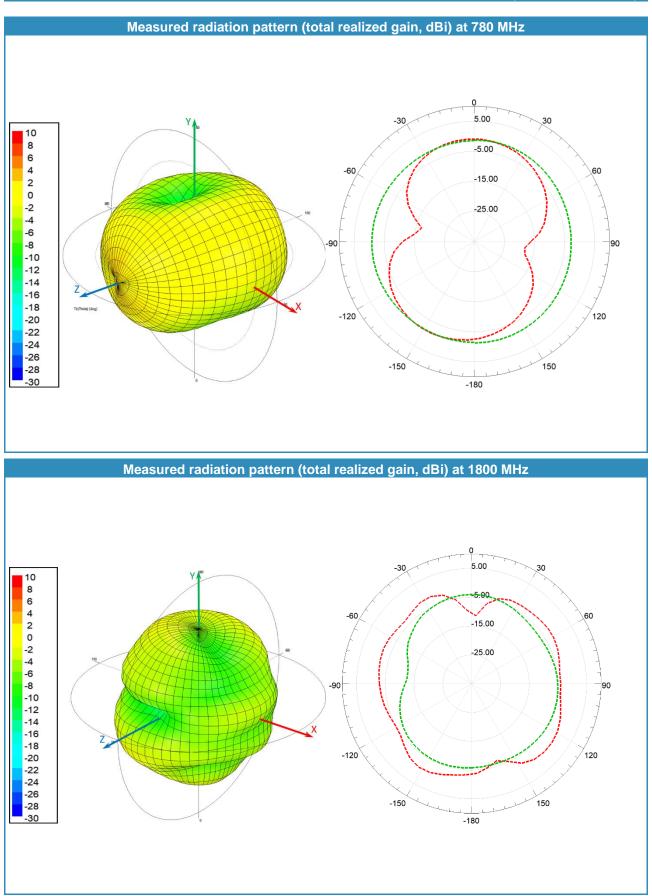




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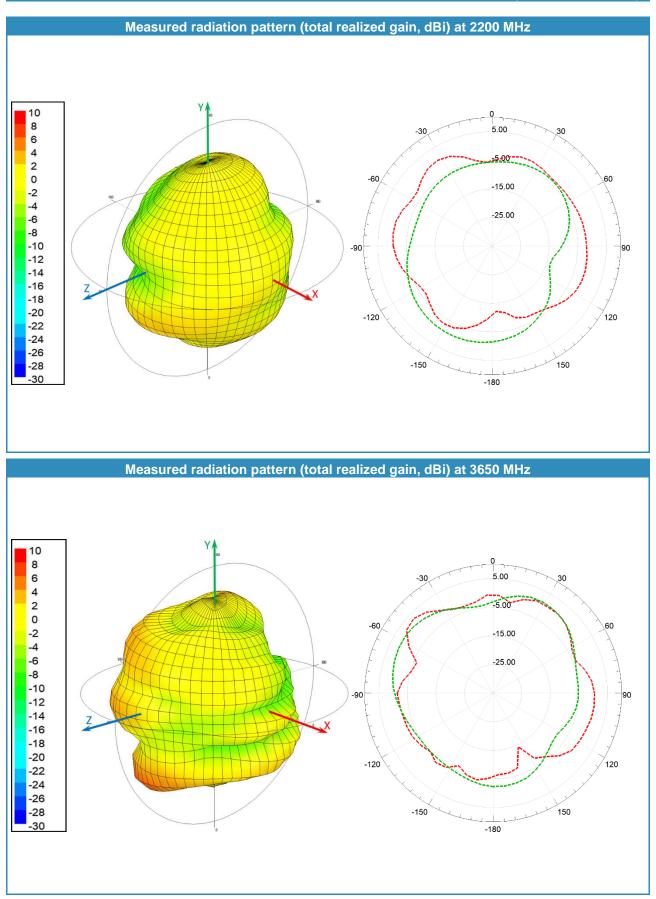
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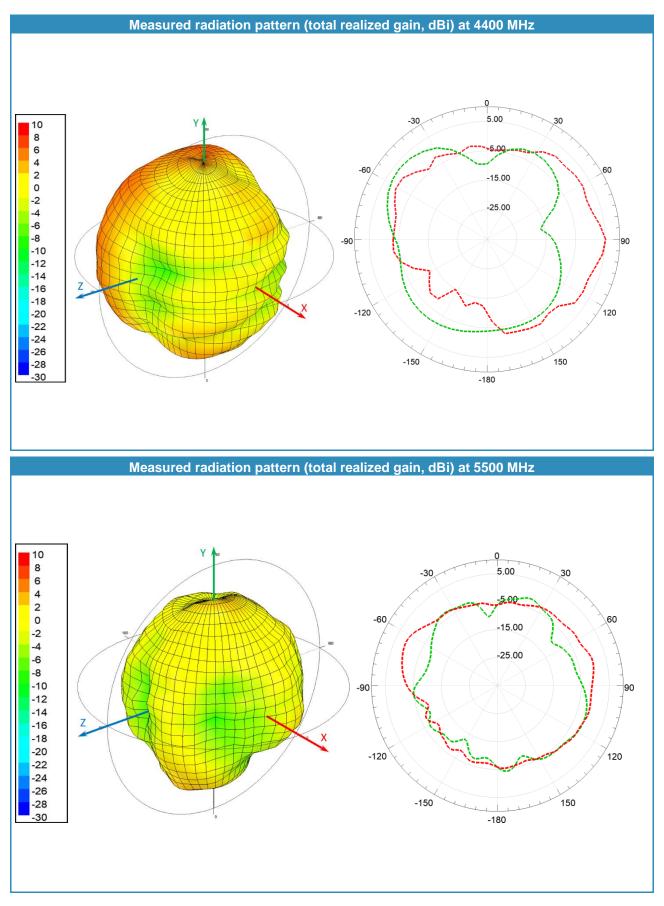
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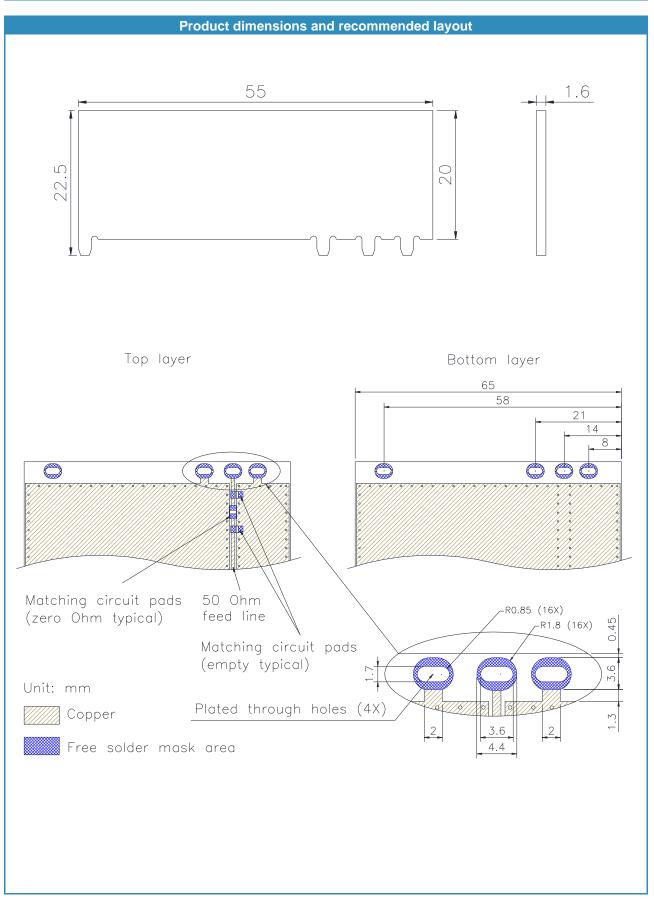
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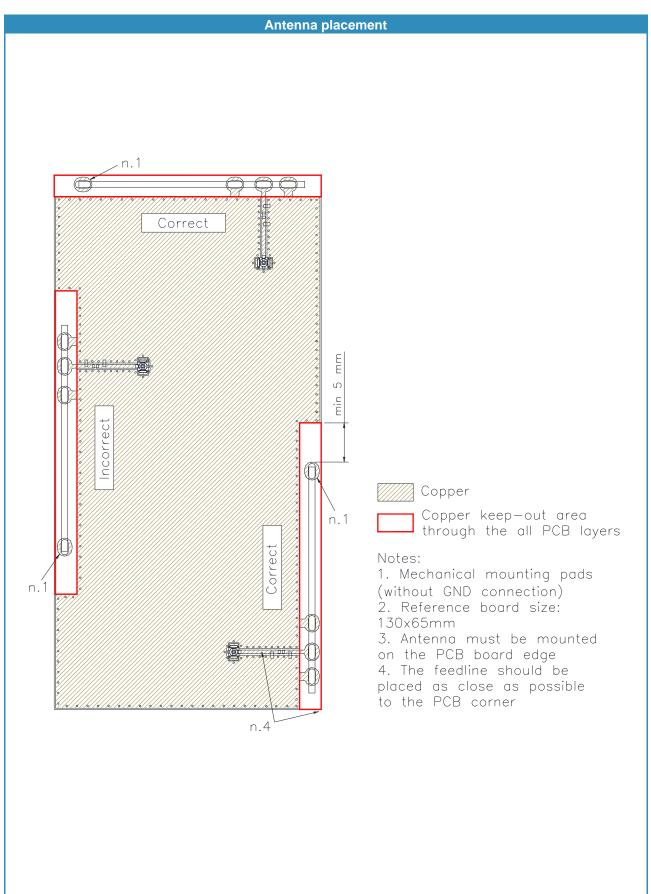
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