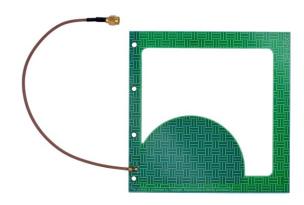
AN220210-01C

Rev. 001



400 MHz / 900 MHz Wideband PCB antenna



General information

Planar wideband PCB antenna is used for various applications including laboratory measurements, spectrum monitoring, remote sensing, telemetry system etc.

Typical applications

ISM, RFID, IoT (Sigfox, LoRa), LP-WAN, Smart meters, LTE, 5G, drone control

Electrical data	
Antenna type	External / internal PCB antenna
5G bands	5, 8, 12 - 14, 18, 20, 26, 28, 29, 71, 81 - 83, 89
4G bands	5, 6, 8, 12 - 14, 17 - 20, 26 - 29, 31, 44, 67, 68, 71 - 73, 85 - 88
Frequency range [MHz]	400900
Return loss [dB]	-7
Peak gain [dBi]	-23
Radiation efficiency [%]	8595
Nominal input impedance [Ohm]	50
Polarization	linear
Radiation pattern	omnidirectional
Maximum input power [W]	5

Mechanical data		
Antenna dimensions [mm]	140 x 140 x 1	
Connector type 1)	SMA male	
Cable type and thickness [mm]	RG178, 2.5	
Weight [g]	30	

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

Additional information

¹⁾ Other connector types can be offered on request.

Antenna performance was measured using the recommended cable length in free space.

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

The antenna can be additionally equipped with adhesive tape and mounting holes.

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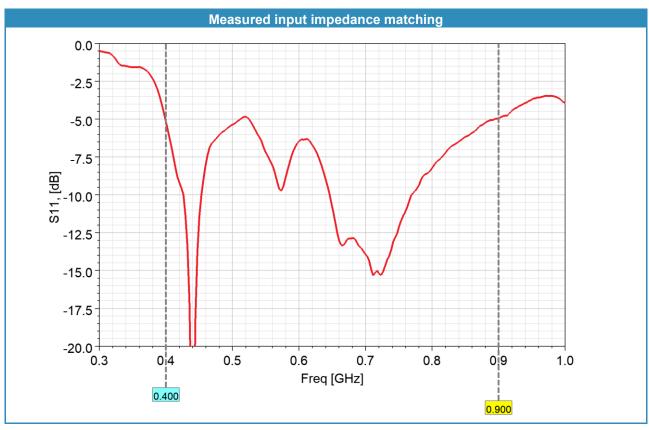
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Rev. 001



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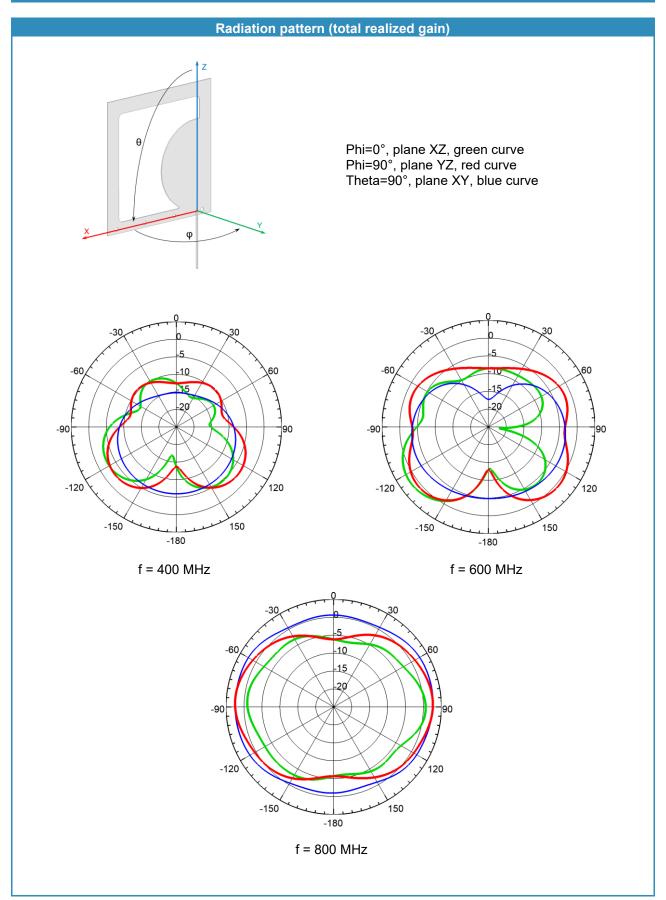
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