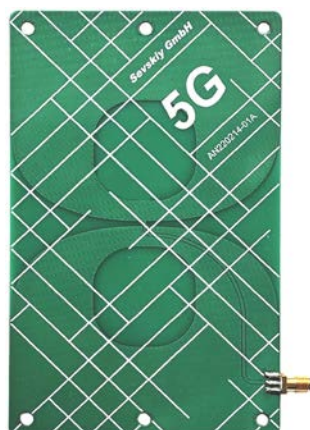


600...7200 MHz Ultra-wideband dipole antenna (5G, LTE, ISM, IoT, UMTS, GSM, UWB)



General information

The AN220214-01A is a planar ultra-wideband dipole PCB antenna designed for operation over a wide frequency range from 600 MHz to 7200 MHz. It is suitable for both internal integration into compact wireless devices and external installation in to the different communication systems, providing reliable performance where space efficiency, low profile, and wideband operation are required.

The antenna supports a wide variety of wireless technologies, including LTE, GSM, UMTS, ISM-band systems, IoT connectivity, UWB communications, and sub-6 GHz 5G services. The broad frequency coverage also enables use in spectrum monitoring, RF surveillance, and experimental wideband communication platforms operating in the VHF, UHF, and microwave bands.

Typical applications include laboratory measurements, electromagnetic compatibility (EMC) testing, channel sounding, positioning and localization systems, as well as industrial sensing and monitoring solutions. The antenna is additionally applicable in research, prototyping, and development environments where a compact, broadband, and omnidirectional antenna is required.

Electrical data

Antenna type	Dipole antenna
5G bands	1, 2, 3, 5, 8, 18, 25, 26, 34, 39, 65, 66, 70, 80 - 82, 84, 86, 89, 95, 98
4G bands	1 - 6, 8 -10, 18 - 20, 23, 25 - 27, 33 - 37, 39, 65, 66, 70
Frequency range [MHz]	600...7200
Return loss [dB]	-10
Peak gain [dBi]	2...5
Radiation efficiency [%]	60...90
Nominal input impedance [Ohm]	50
Polarization	linear
Radiation pattern	omnidirectional
Maximum input power [W]	5

Mechanical data

Antenna dimensions [mm]	150 x 90 x 1
Connector type ¹⁾	SMA Female ¹⁾
Material	FR-4
Weight [g]	33

Additional information

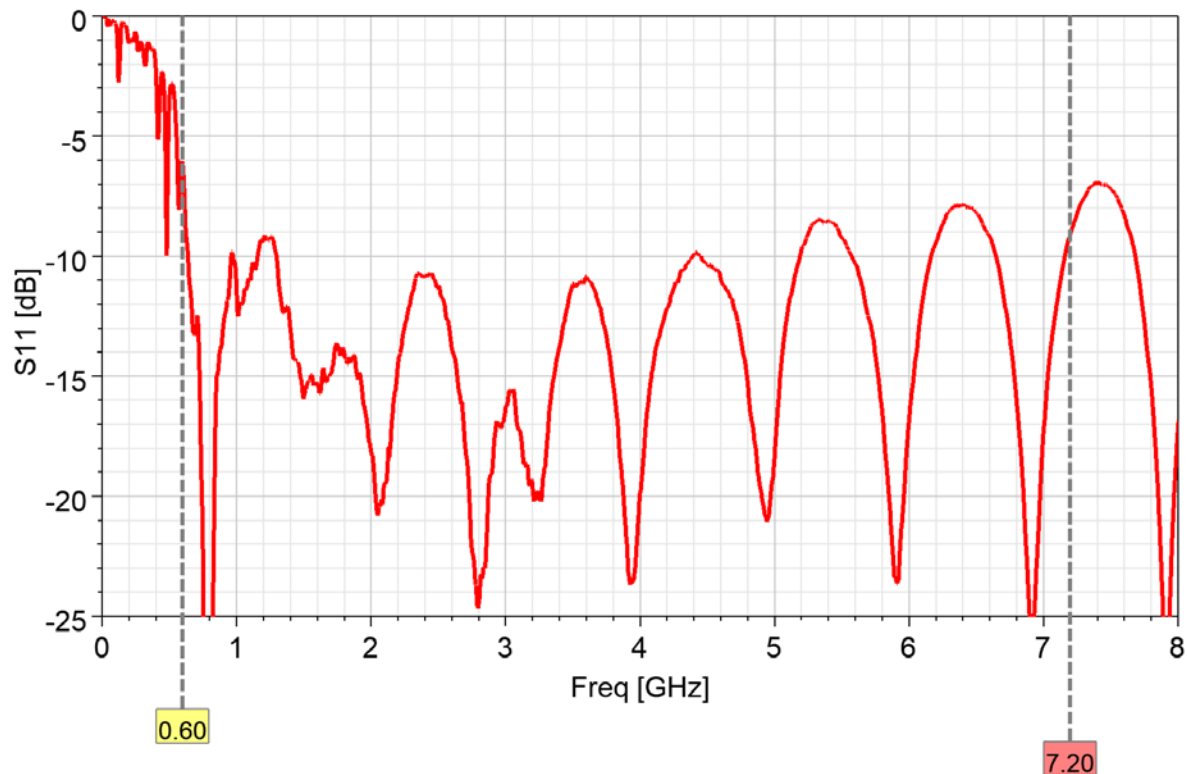
¹⁾ Other connector types can be offered on request.

Other designs, geometries or materials are possible on request.

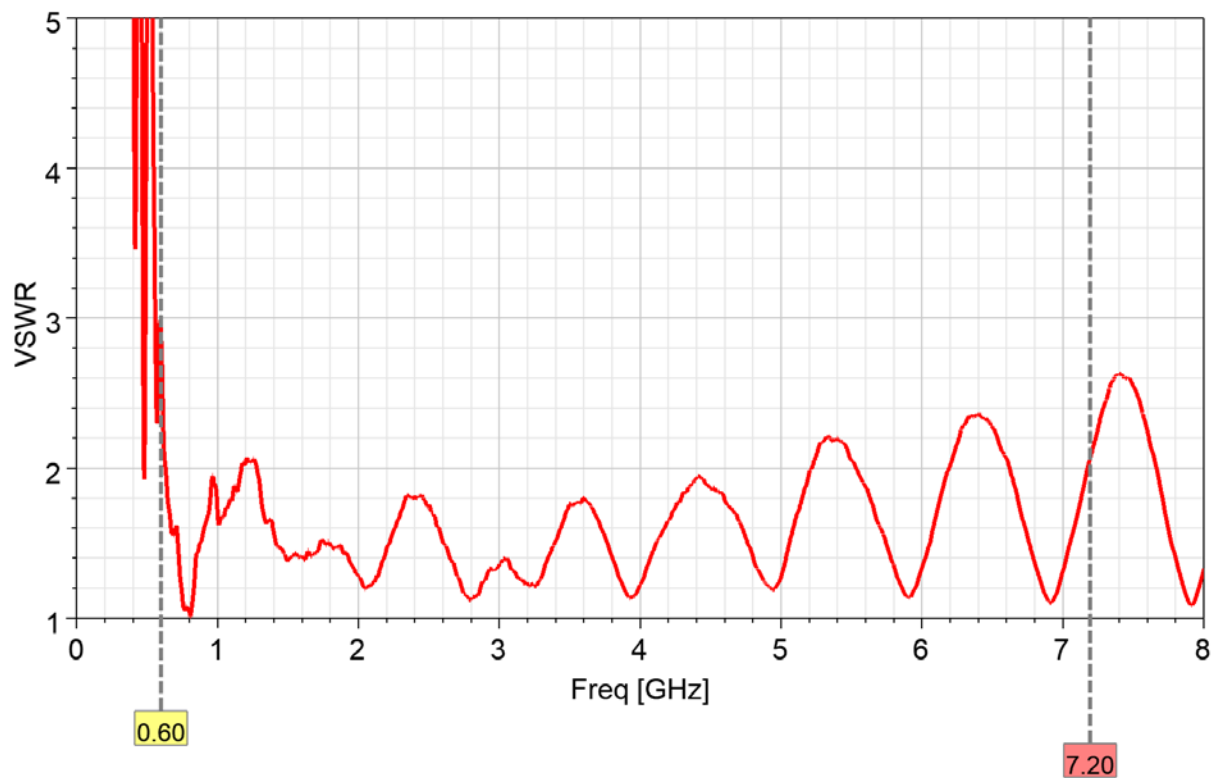
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600...7200 MHz Ultra-wideband dipole antenna (5G, LTE, ISM, IoT, UMTS, GSM, UWB)

Measured input impedance matching



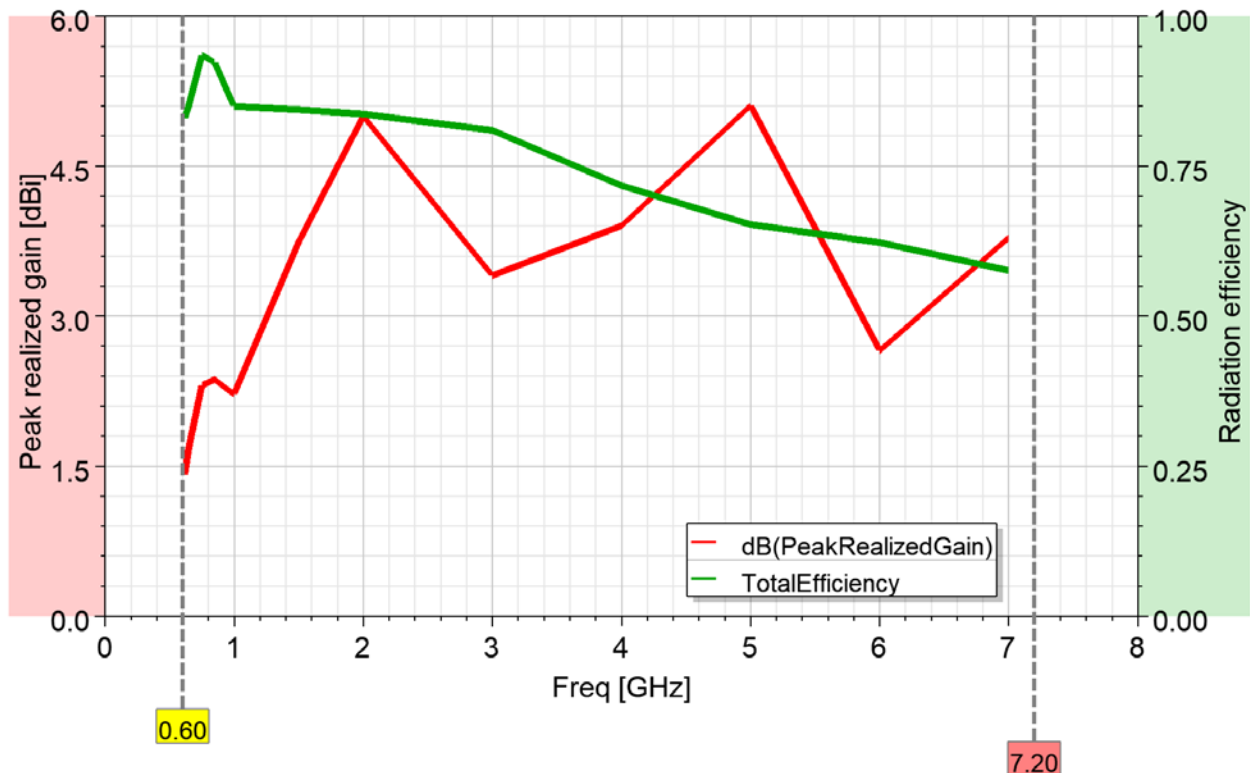
VSWR



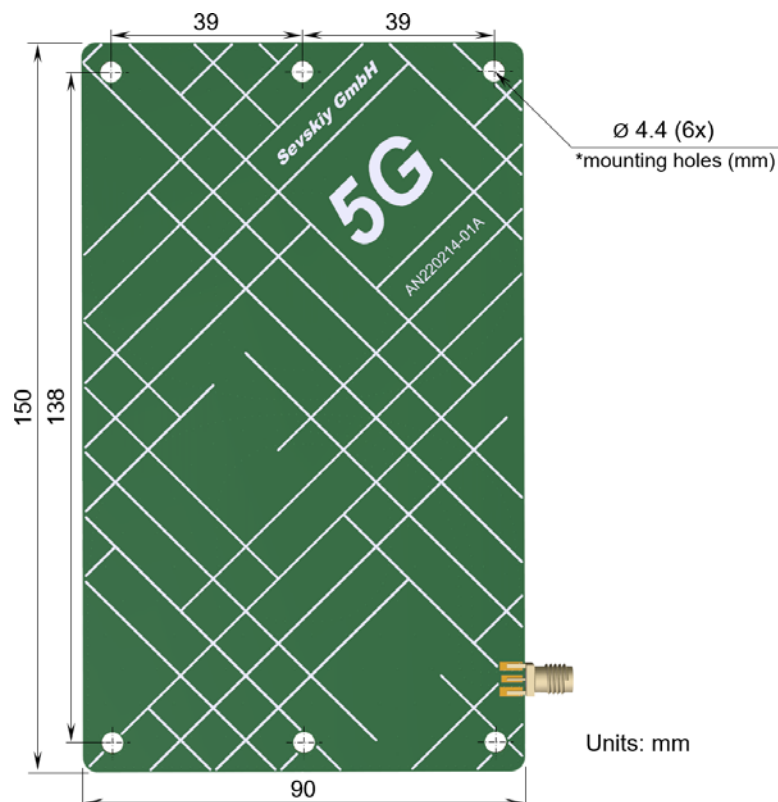
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Peak realized gain and radiation efficiency



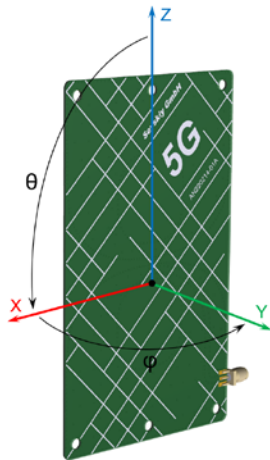
Product dimensions



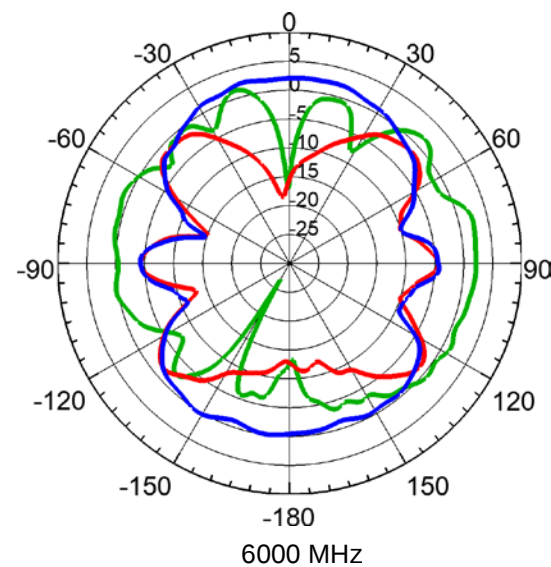
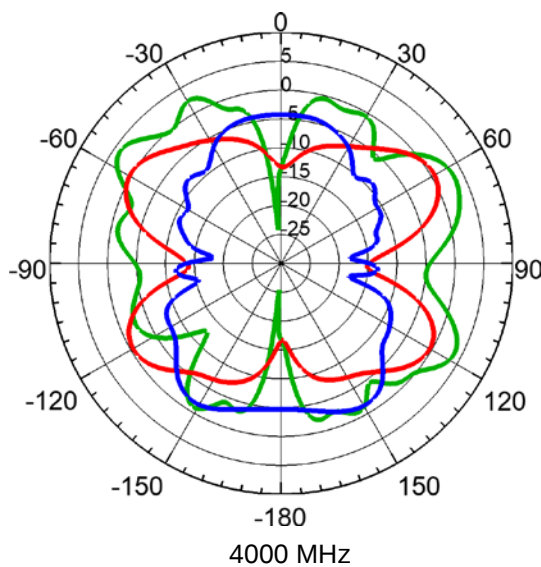
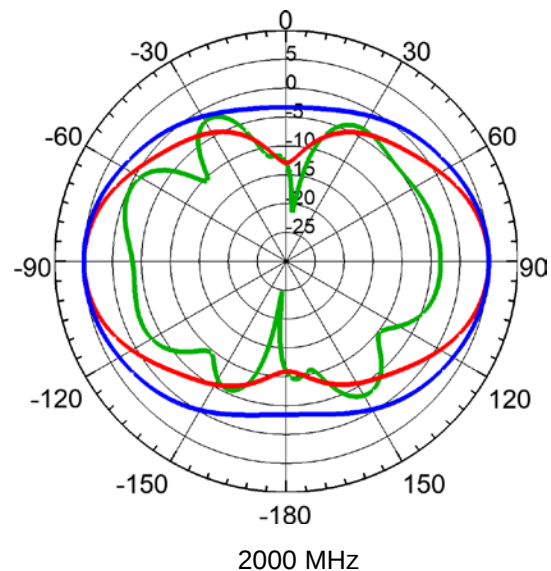
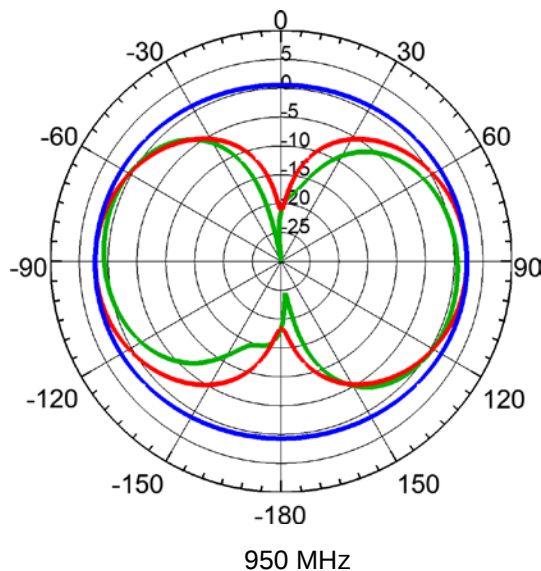
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600...7200 MHz Ultra-wideband dipole antenna (5G, LTE, ISM, IoT, UMTS, GSM, UWB)

Radiation pattern



Total realized gain [dBi]
Phi=0°, plane XZ, green curve
Phi=90°, plane YZ, red curve
Theta=90°, plane XY, blue curve



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600...7200 MHz Ultra-wideband dipole antenna (5G, LTE, ISM, IoT, UMTS, GSM, UWB)

Accessories: antenna holder PH220214-001



General information

Plastic antenna holder for ultra-wideband dipole antenna AN220214-01A.

Mechanical data

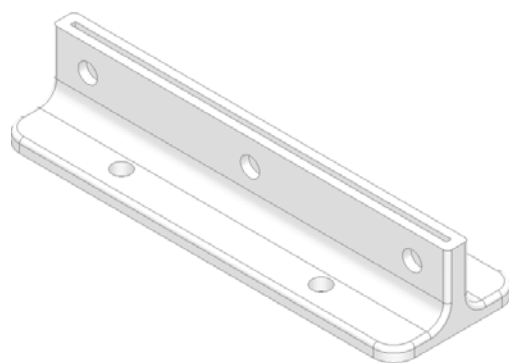
Dimensions [mm]	95 x 31 x 18
Material	plastic
Weight [g]	10

Additional information

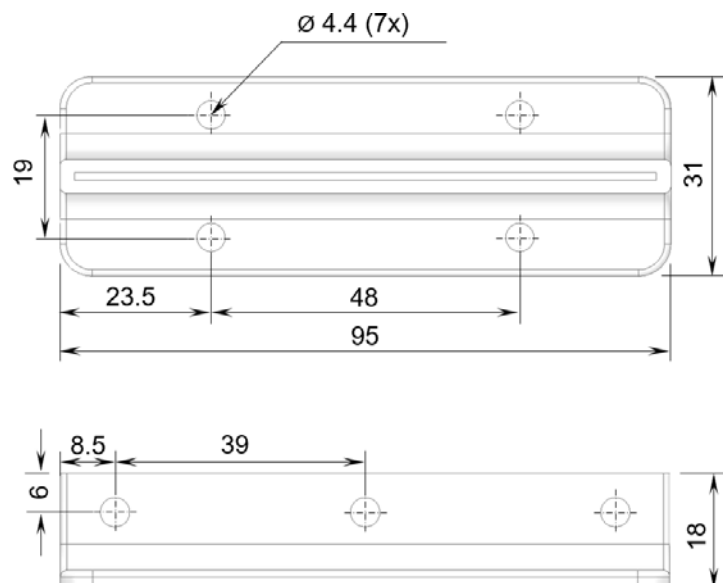
Other designs, geometries, colour or materials are possible on request.

The antenna holder is not included and should be purchased separately.

Product dimensions



Units: mm



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