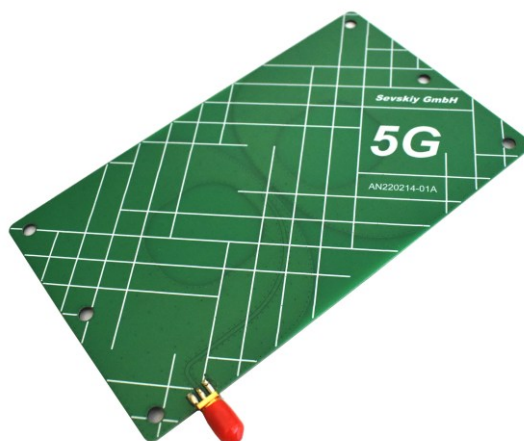


600...7200 MHz Ultra-wideband dipole antenna



General information

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

Typical applications

ISM, RFID, IoT, LP-WAN, Smart meters, LTE, 5G, UMTS, GSM, UWB, GNSS, Wi-Fi

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 |

Environmental data

| | |
|-------------------------------|-----------|
| Operating temperature [°C] | -40...+85 |
| Storage temperature [°C] | -40...+85 |
| Ambient relative humidity [%] | 0...95 |
| RoHS / REACH compliant | yes / yes |

Additional information

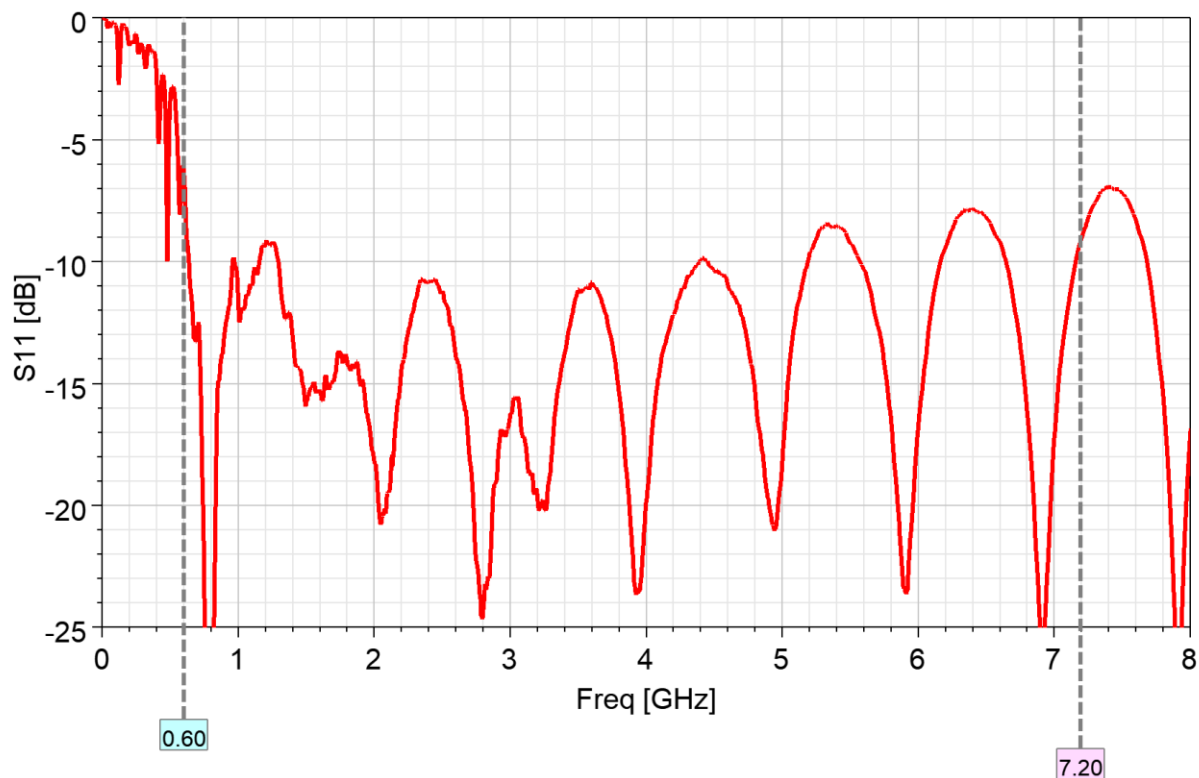
¹⁾ Other connector types can be offered on request.

Other designs, geometries or materials are possible on request.

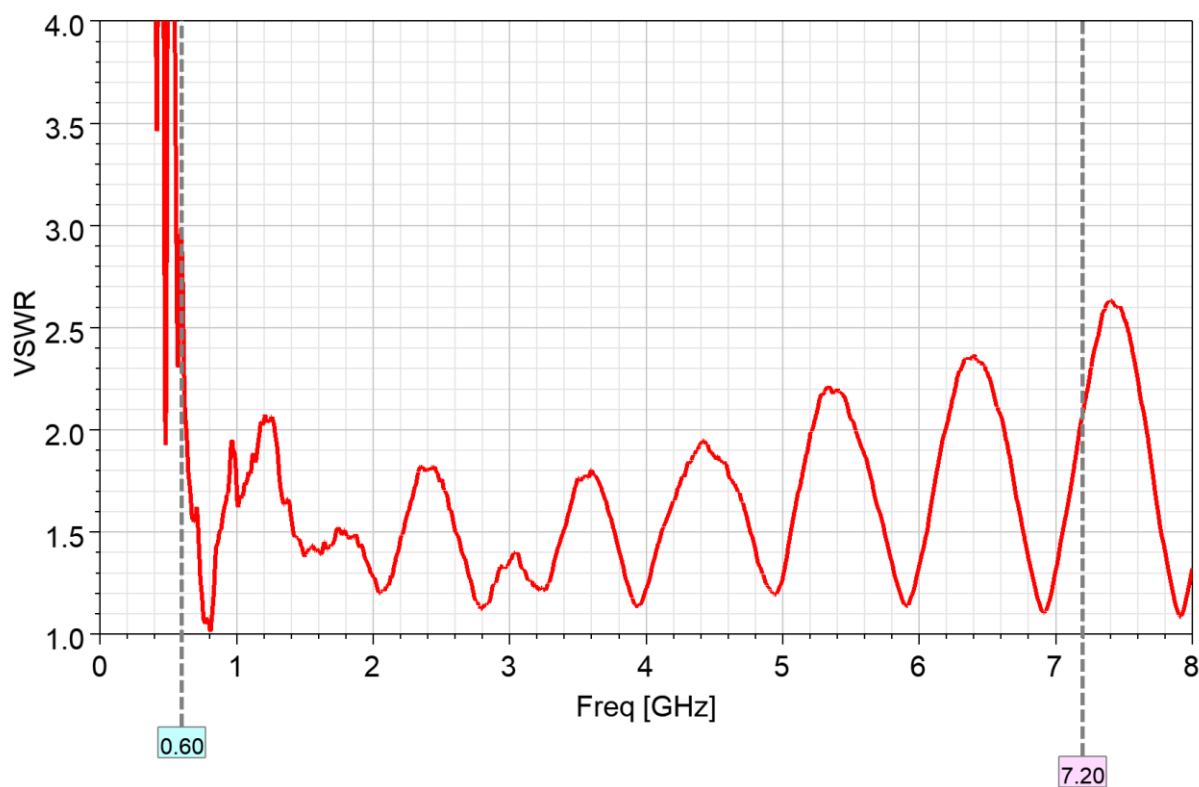
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600...7200 MHz Ultra-wideband dipole antenna

Measured input impedance matching



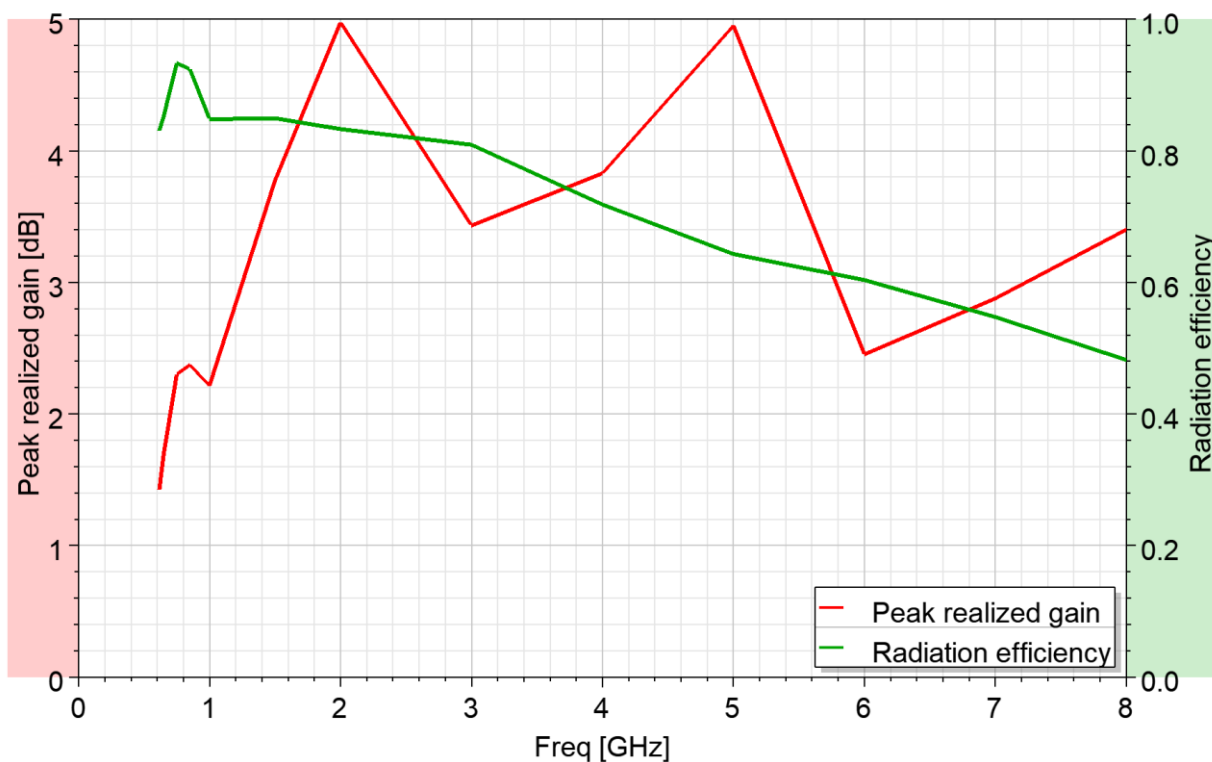
VSWR



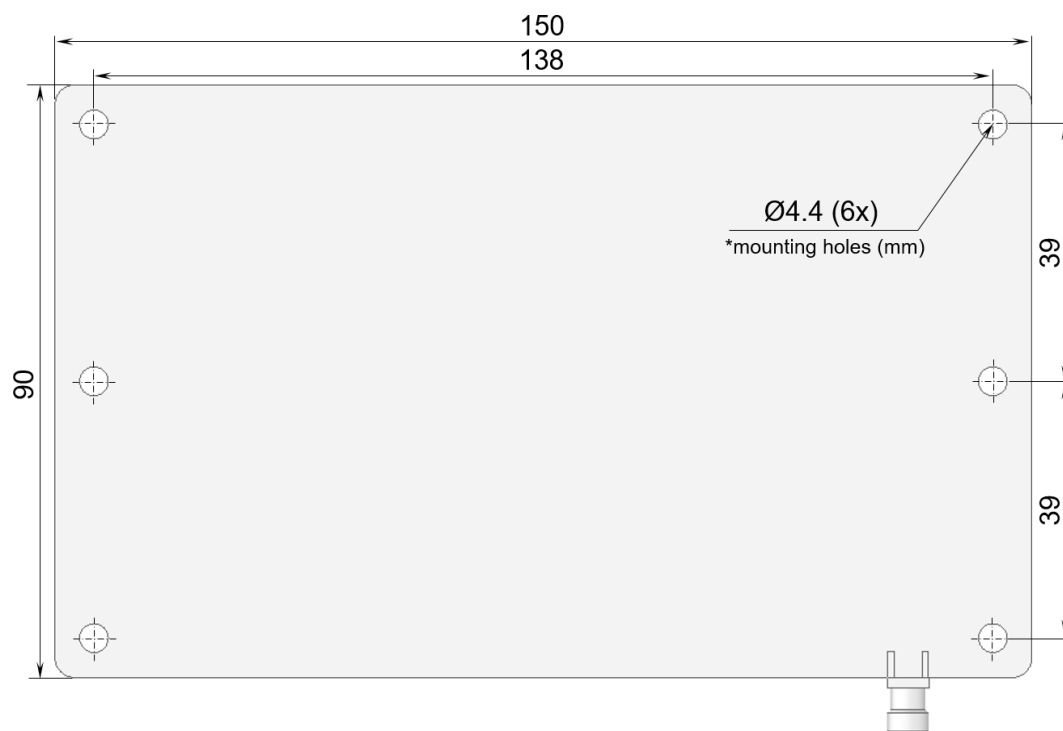
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600...7200 MHz Ultra-wideband dipole antenna

Peak realized gain and radiation efficiency



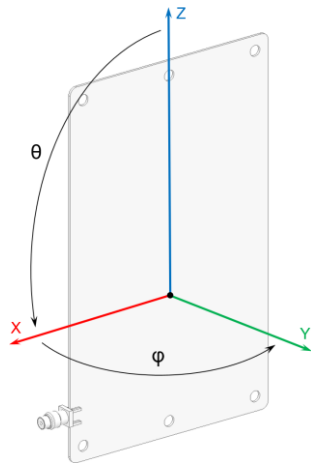
Product dimensions



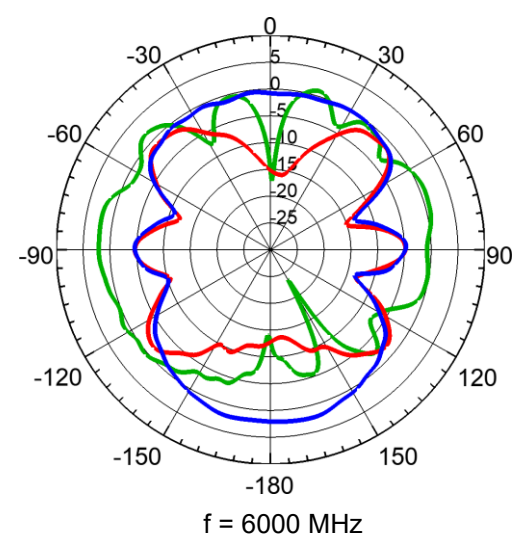
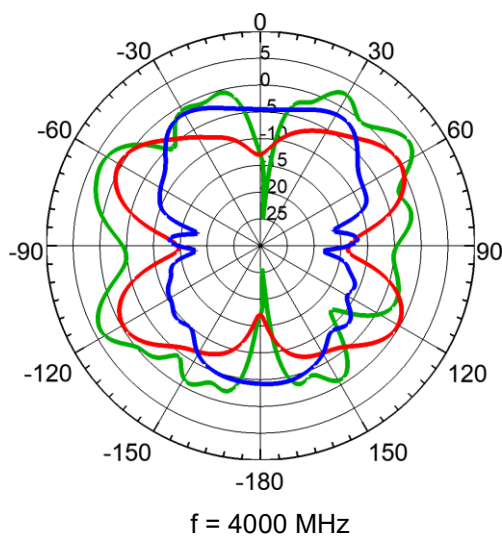
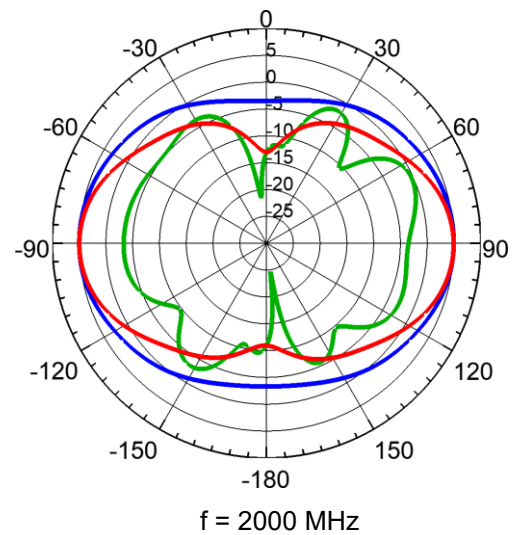
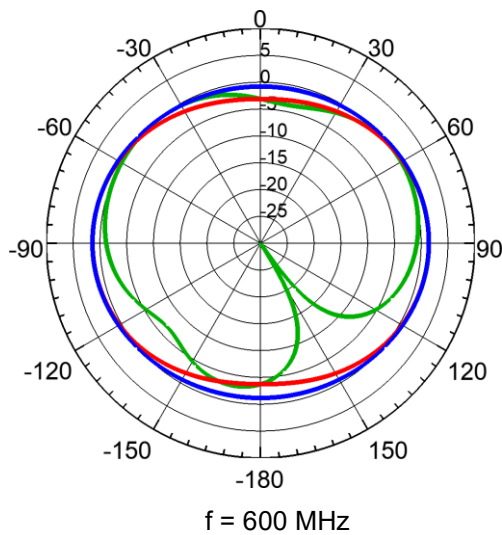
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600...7200 MHz Ultra-wideband dipole antenna

Radiation pattern (total realized gain)



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

Accessories: antenna holder PH220214-001



General information

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

Mechanical data

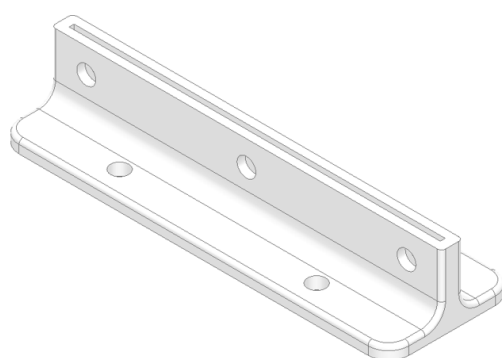
| | |
|-----------------|--------------|
| Dimensions [mm] | 95 x 31 x 18 |
| Material | plastic |
| Weight [g] | 10 |

Additional information

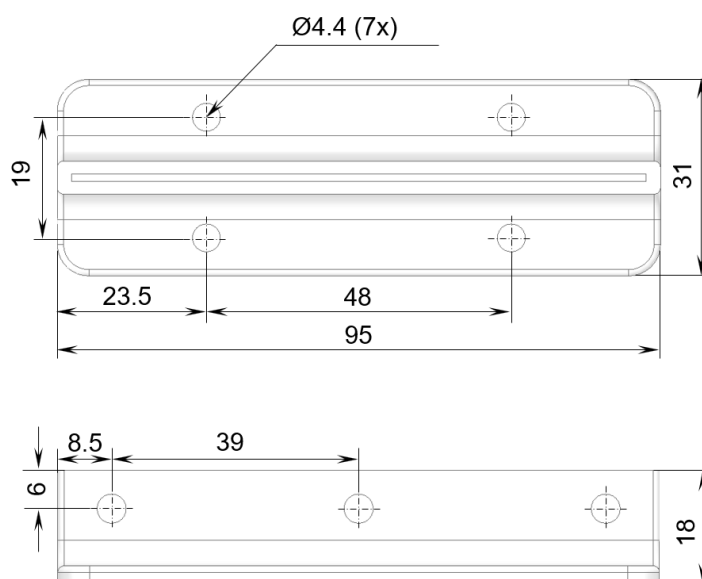
Other designs, geometries, colour or materials are possible on request.

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

Product dimensions



Units: mm



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