

700 MHz / 960 MHz / 1.427 GHz / 1.695 GHz / 2.69 GHz / 3.3 GHz / 7 GHz PCB Antenna (5G NR, LTE)



General information

Planar ultra-wideband Vivaldi antenna for various applications including laboratory measurements, spectrum monitoring etc.

Typical applications

5G NR, LTE, ISM, RFID, IoT (Sigfox, LoRa, NB-IoT), LP-WAN, Smart meters, Bluetooth, Wi-Fi 2.4/5/6 GHz

Electrical data

Antenna type	External / internal PCB antenna			
5G bands	1, 2, 3, 5, 7, 8, 12, 13, 14, 18, 20, 25, 26, 28 - 30, 34, 38, 39, 40, 41, 46 - 48, 50, 53, 65, 66, 70, 74 - 84, 86, 89, 90 - 98			
4G bands	1 - 14, 17 - 30, 32 - 53, 65 - 70, 74 - 76, 85			
Other frequency bands	SRD860 (EU), ISM915 (US), GNSS, ISM2400, Wi-Fi 6 GHz, ISM5800			
Frequency range [MHz]	700...960	1427...1517	1695...2690	3300...7125
Return loss [dB]	-8	-10	-12	-11
Peak gain [dBi]	2.1	2.9	4.1	4.4
Radiation efficiency [%]	84	71	60	51
Nominal input impedance [Ohm]	50			
Polarization	linear			
Radiation pattern	omnidirectional / directional			
Maximum input power [W]	10			

Mechanical data

Antenna PCB dimensions [mm]	155 x 49.7 x 0.8
Connector type ¹⁾	IPEX MHF1 / Hirose U.FL (UMCC) compatible ¹⁾
Cable type and thickness ²⁾ [mm]	micro coax 1.13 ²⁾
Cable length ³⁾ [mm]	180 ³⁾
PCB material	FR4

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.

²⁾ Following cable thicknesses can be used with MHF1 connector: 0.81 mm, 1.13 mm, 1.32 mm, 1.37 mm.

³⁾ Other cable lengths can be provided.

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

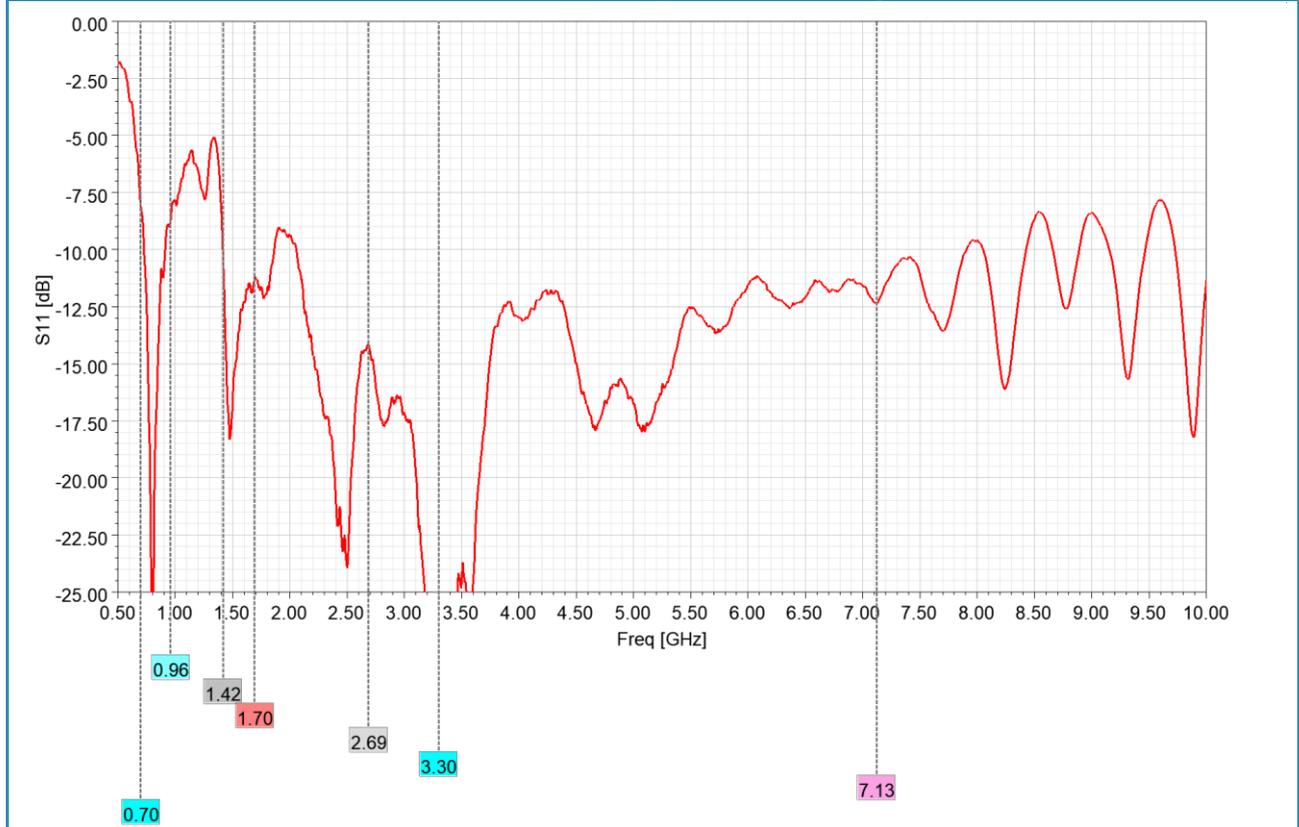
Further customization, electromagnetic simulations and measurements can be offered on request.

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

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Measured input impedance matching



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