Rev. 001



868 MHz / 960 MHz / 1.427 GHz / 1.695 GHz / 2.69 GHz / 3.3 GHz / 10 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, 18, 25, 30, 34, 38, 39, 40, 41, 46 - 48, 50, 53, 65, 66, 70, 77 - 79, 80 - 82, 84, 86, 90, 95, 97, 98					
4G bands	1 - 11, 18, 19, 21 - 25, 30, 32 - 43, 46 - 53, 65, 66, 69, 70, 74 - 76					
Other frequency bands	SRD860 (EU), ISM915 (US), GNSS, ISM2400, Wi-Fi 6 GHz, ISM5800					
Frequency range [MHz]	860960	14271517	16952690	33007125	10000	
Return loss [dB]	-6	-9	-14	-13	-10	
Peak gain [dBi]	0.8	1.3	2.6	5.1	4.7	
Radiation efficiency [%]	85	70	61	52	45	
Nominal input impedance [Ohm]	50					
Polarization	linear					
Radiation pattern	directional					
Maximum input power [W]	10					

Mechanical data			
Antenna PCB dimensions [mm]	100 x 59.9 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 [%]	095		
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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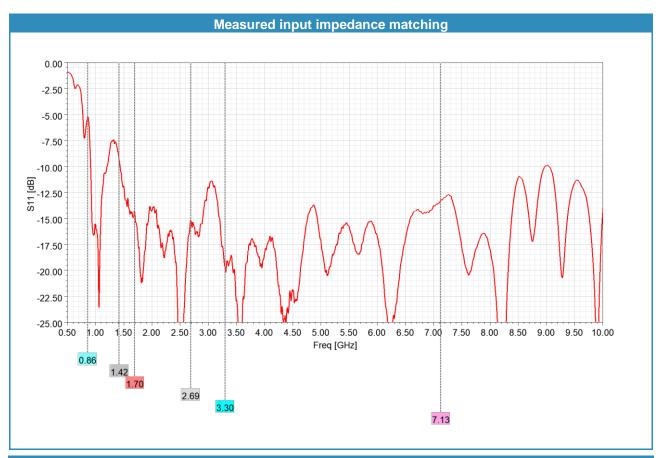
E-Mail: sergey@sevskiy.de

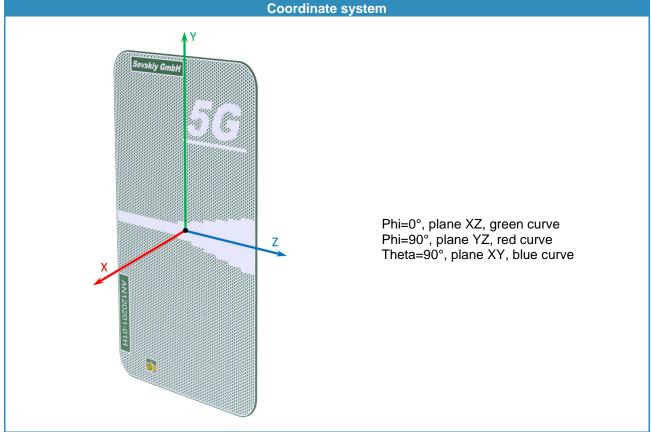
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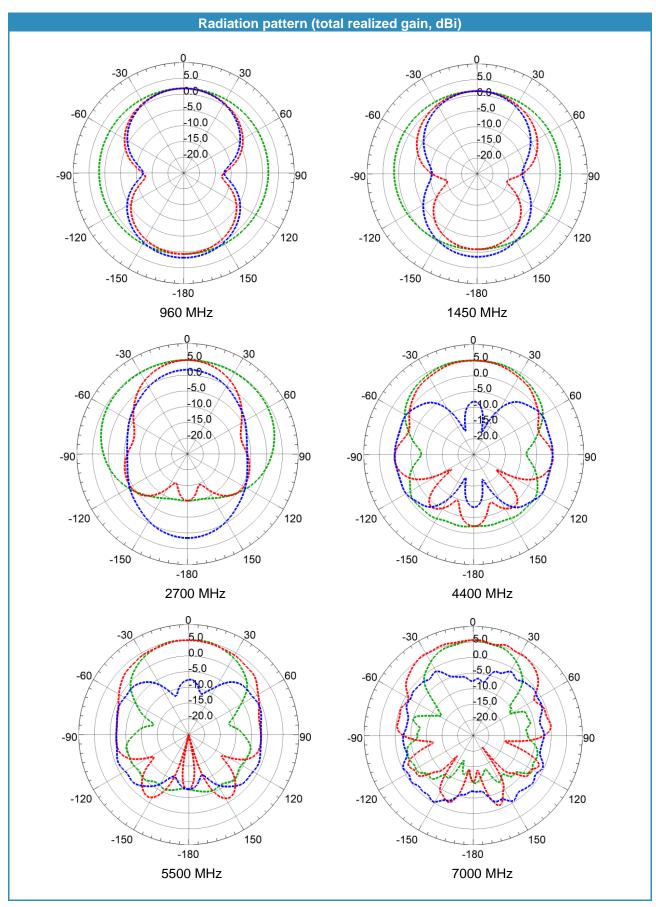
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