

800...960 MHz / 1427...10000 MHz Vivaldi antenna (5G NR, LTE, ISM, RFID, IoT, BT, Wi-Fi 2.4/5/6)



General information

The AN120201-01H is a planar ultra-wideband Vivaldi antenna designed to cover a broad frequency range from 800 MHz up to 10 GHz, enabling operation across multiple wireless and measurement applications. It supports a wide set of communication standards and technologies including 5G NR (sub-6 GHz), LTE, GSM, UMTS, ISM, RFID, Bluetooth, IoT, and Wi-Fi 2.4/5 GHz, making it suitable for both commercial and industrial RF systems.

Thanks to its directional radiation characteristics and wide operating bandwidth, the antenna is well suited for spectrum monitoring, RF testing and measurement setups, laboratory instrumentation, wireless prototyping, broadband telemetry, experimental communication systems, and EMC pre-compliance testing. The antenna is manufactured on an FR-4 board and is equipped with an I-PEX MHF1 / Hirose U.FL (UMCC) compatible connector, allowing flexible integration with RF modules, measurement equipment, and embedded radio platforms.

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, ISM915, GNSS, ISM2400, Wi-Fi 6 GHz, ISM5800	
Frequency range [MHz]	800...960	1427...10000
Return loss [dB]	-6...-10	-10
Peak gain [dBi]	-0.3...2	2...6.5
Radiation efficiency [%]	50...90	70...90
Nominal input impedance [Ohm]	50	
Polarization	linear	
Radiation pattern	directional	
Maximum input power [W]	5	

Mechanical data

Antenna PCB dimensions [mm]	100 x 59.9 x 0.8
Connector type ¹⁾	IPEX MHF1 / Hirose U.FL (UMCC) compatible ¹⁾
PCB material	FR4
Weight [g]	12

Additional information

¹⁾ Other connector types can be offered on request.

Antenna performance was measured using 180 mm cable length in free space.

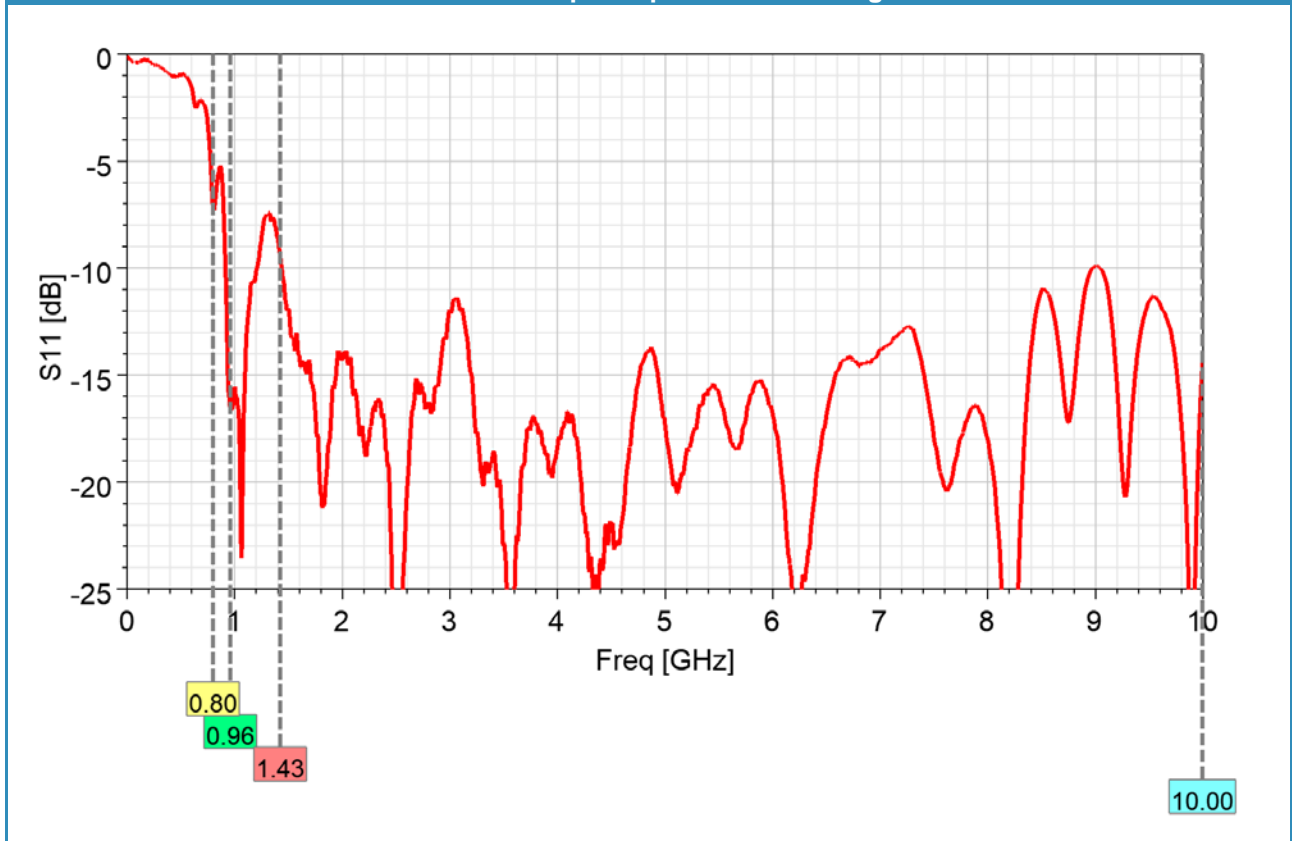
Further customization, electromagnetic simulations and measurements can be offered on request.

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

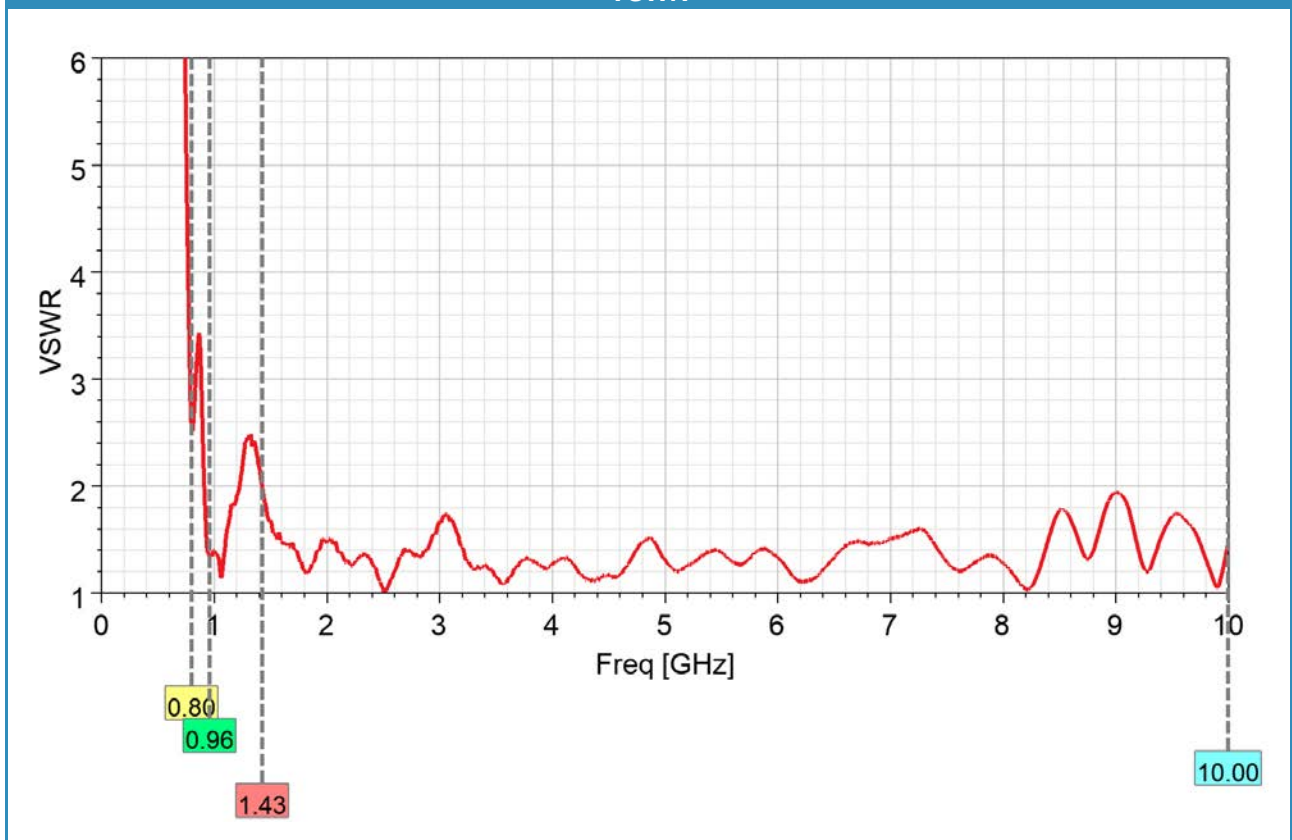
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Measured input impedance matching



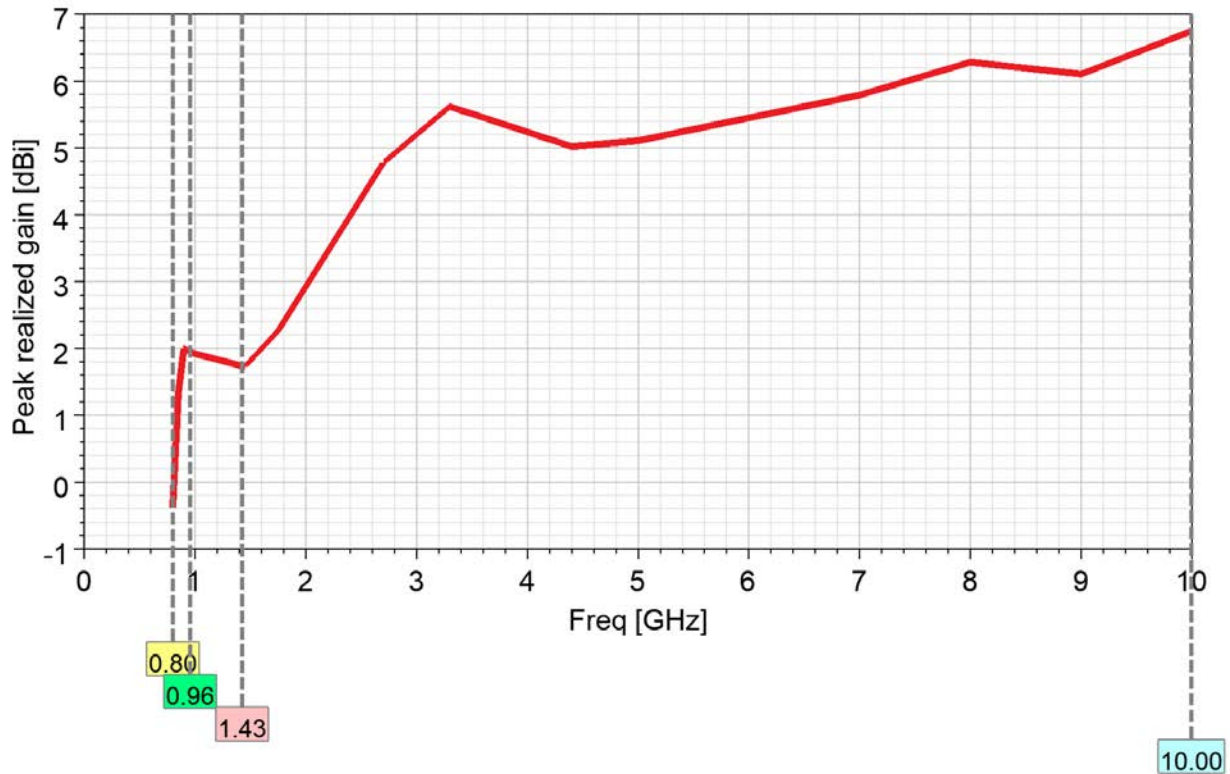
VSWR



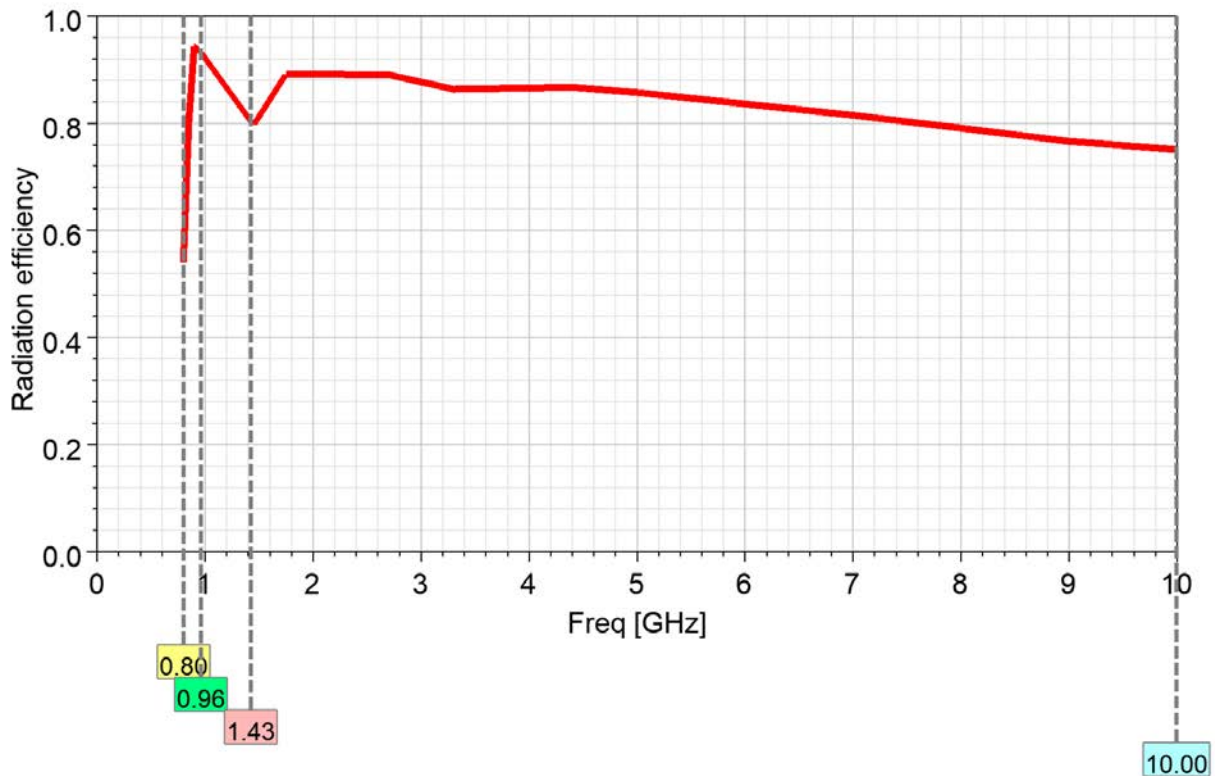
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Peak realized gain



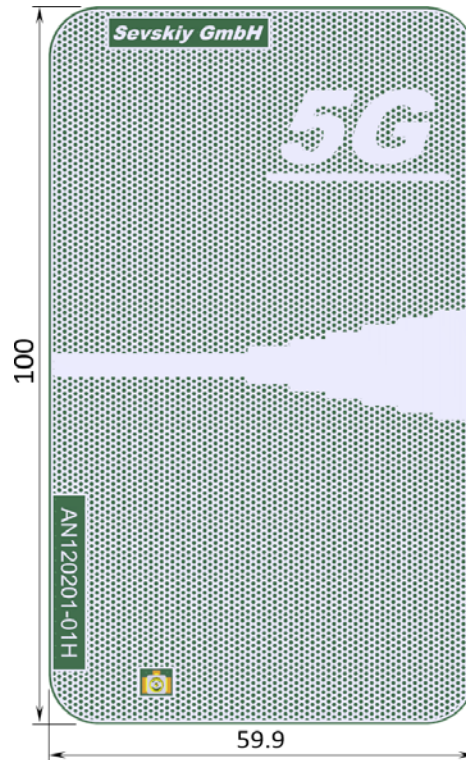
Radiation efficiency



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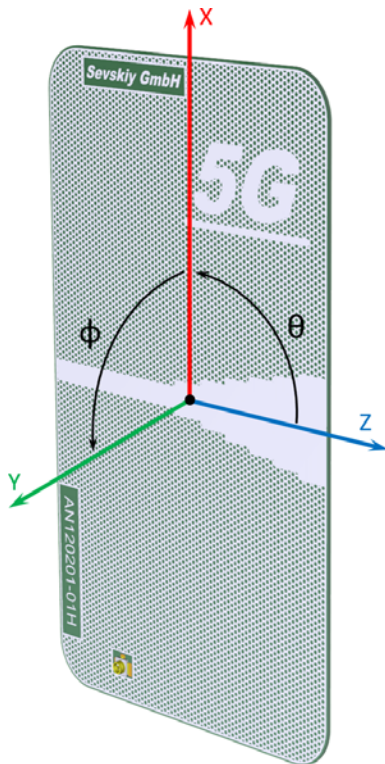
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Product dimensions



Units: mm

Coordinate system



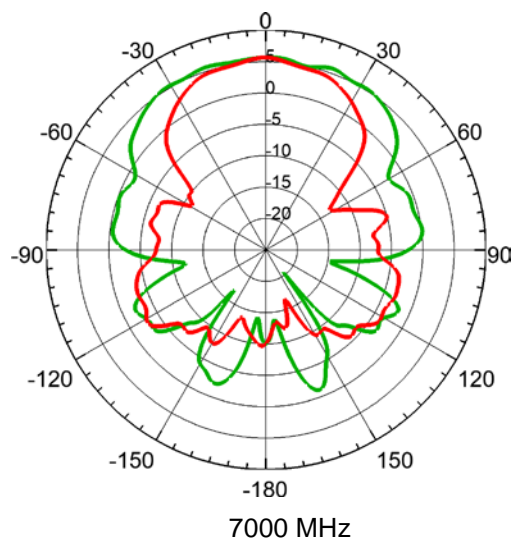
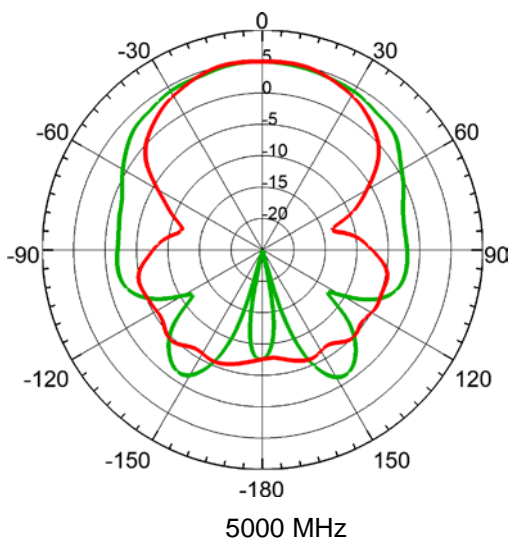
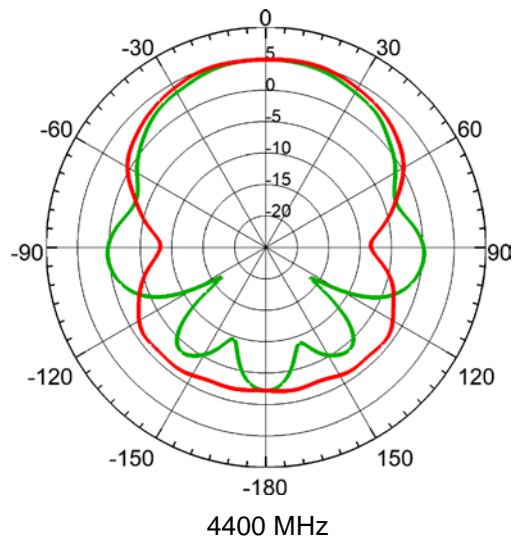
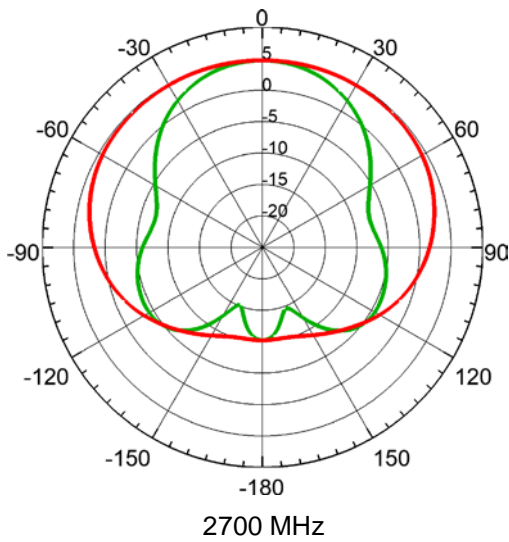
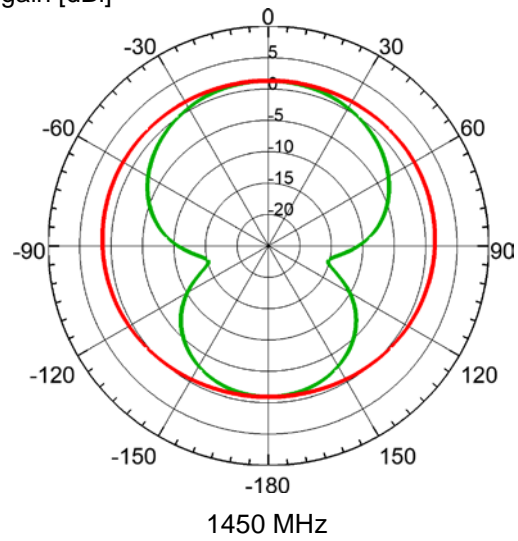
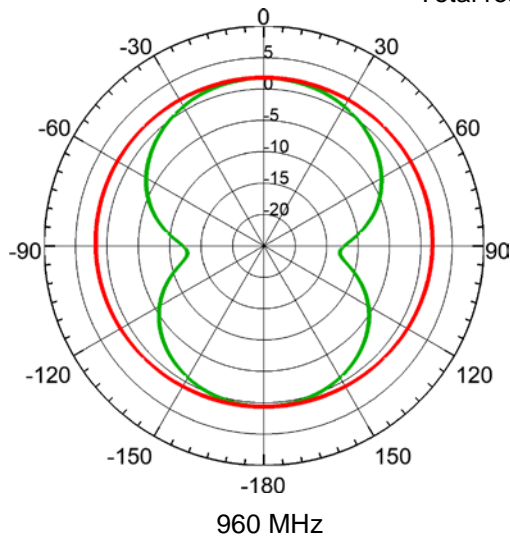
Phi=0°, plane XZ, green curve
Phi=90°, plane YZ, red curve

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Radiation pattern

Total realized gain [dBi]



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