

600...960 MHz / 1400...10000 MHz Vivaldi antenna (5G NR, LTE, ISM, RFID, IoT, BT, Wi-Fi 2.4/5/6)



General information

The AN120202-01A is a planar ultra-wideband Vivaldi antenna designed for broadband wireless communication and measurement applications, covering frequency ranges from 600 to 960 MHz and from 1.4 GHz up to 10 GHz. This wide operating bandwidth enables support for multiple wireless technologies, including 5G NR (sub-6 GHz), LTE, GSM, UMTS, ISM, RFID, Bluetooth, IoT, and Wi-Fi 2.4/5 GHz, making the antenna suitable for both commercial and industrial RF systems.

Due to its directional radiation pattern and stable broadband performance, the antenna is well suited for spectrum monitoring, laboratory measurements, RF testing and validation, wireless prototyping, broadband telemetry, and research and development platforms. The antenna is implemented on an FR-4 board and can be used as an external or internal antenna. It is equipped with a SMA Female 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, 12, 13, 14, 18, 20, 25, 26, 28 - 30, 34, 38, 39, 40, 41, 46 - 48, 50, 53, 65, 66, 70, 71, 74 - 84, 86, 89, 90 - 98	
4G bands	1 - 14, 17 - 30, 32 - 53, 65 - 71, 74 - 76, 85	
Other frequency bands	SRD860, ISM915, GNSS, ISM2400, Wi-Fi 6 GHz, ISM5800	
Frequency range [MHz]	600...960	1400...10000
Return loss [dB]	-11	-10
Peak gain [dBi]	2.3...4.2	1.4...5
Radiation efficiency [%]	75...80	55...85
Nominal input impedance [Ohm]	50	
Polarization	linear	
Radiation pattern	directional	
Maximum input power [W]	5	

Mechanical data

Antenna PCB dimensions [mm]	160 x 77.5 x 0.8
Connector type ¹⁾	SMA Female ¹⁾
PCB material	FR4
Weight [g]	27

Additional information

¹⁾ Other connector types can be offered on request.

Antenna performance was measured using 175 mm cable length in free space.

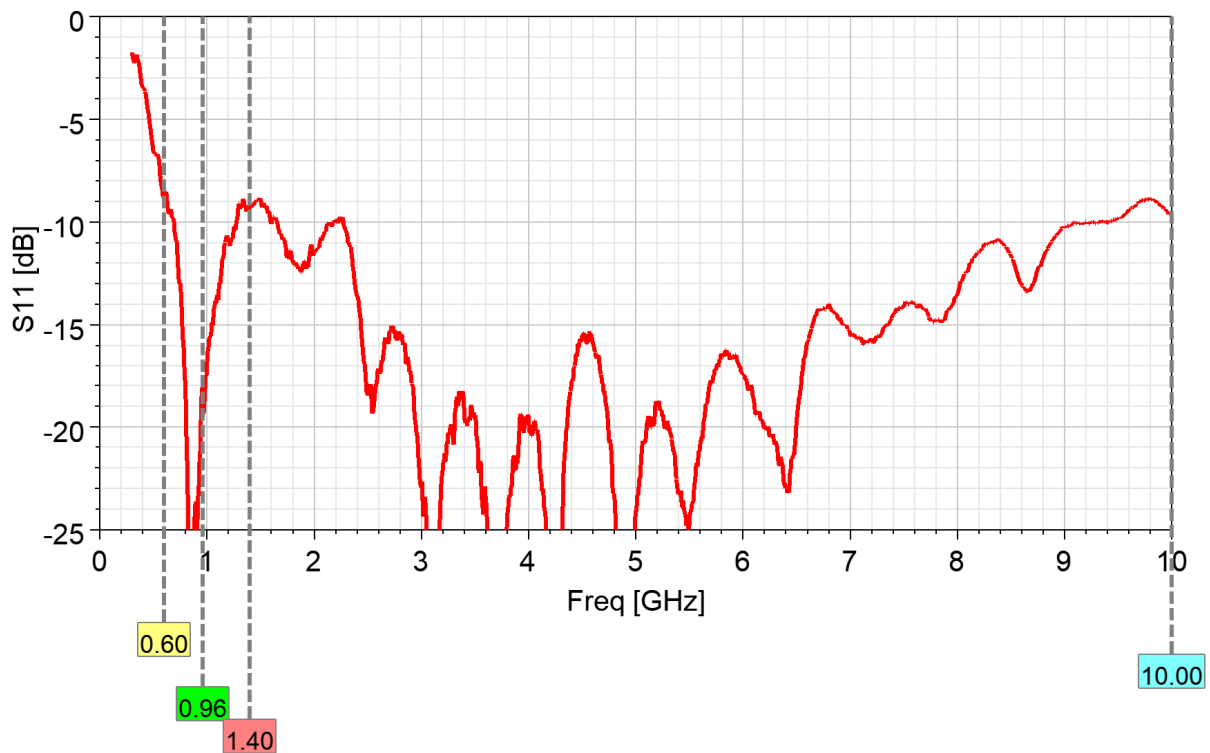
Further customization, electromagnetic simulations and measurements can be offered on request.

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

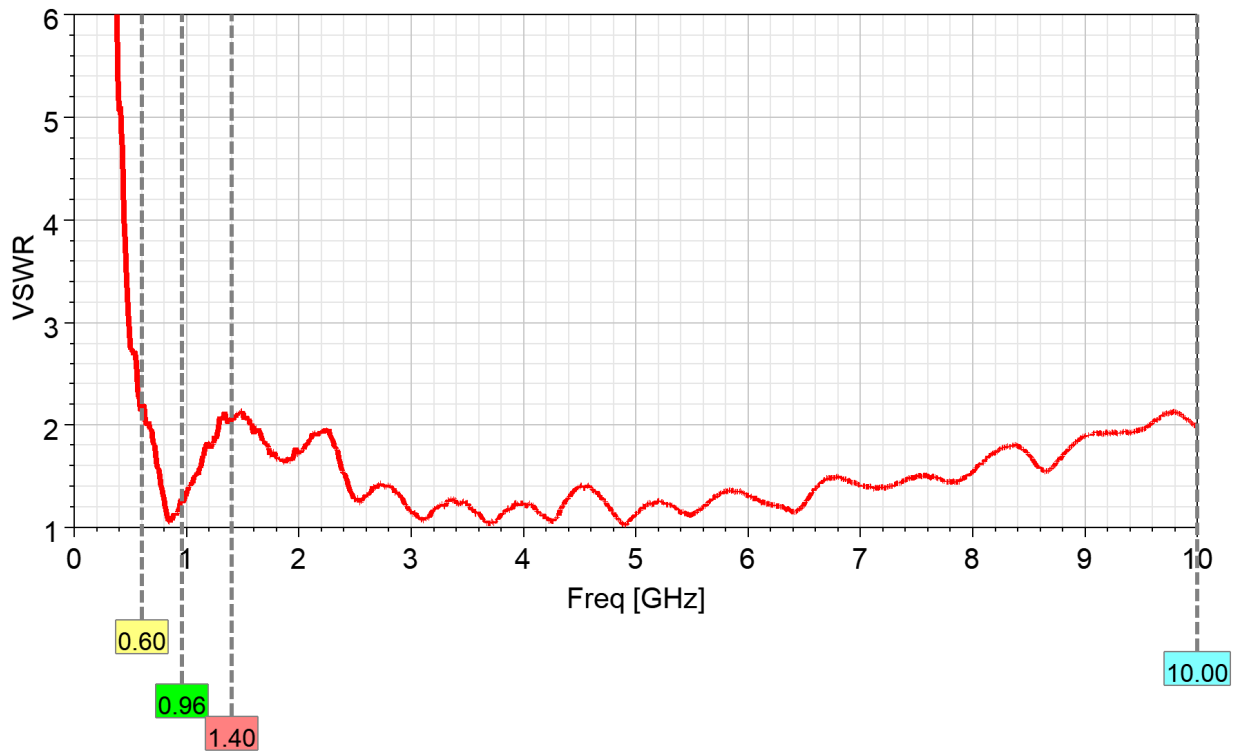
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Measured input impedance matching



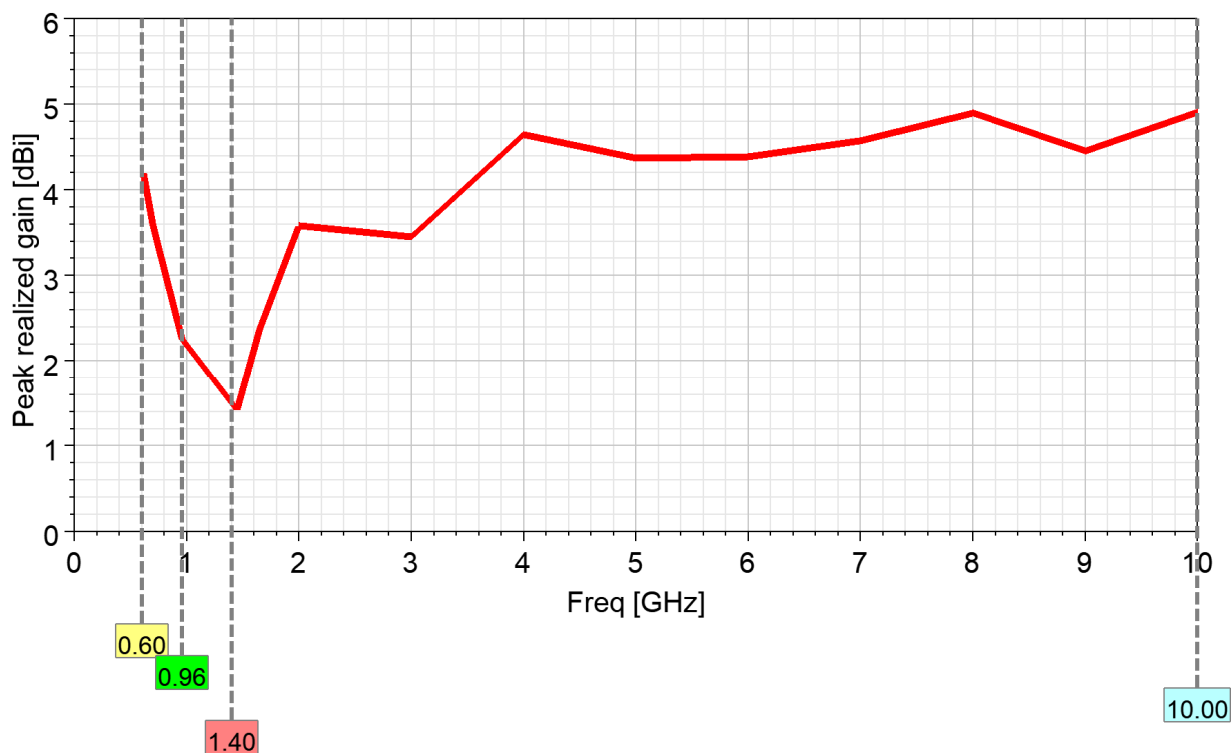
VSWR



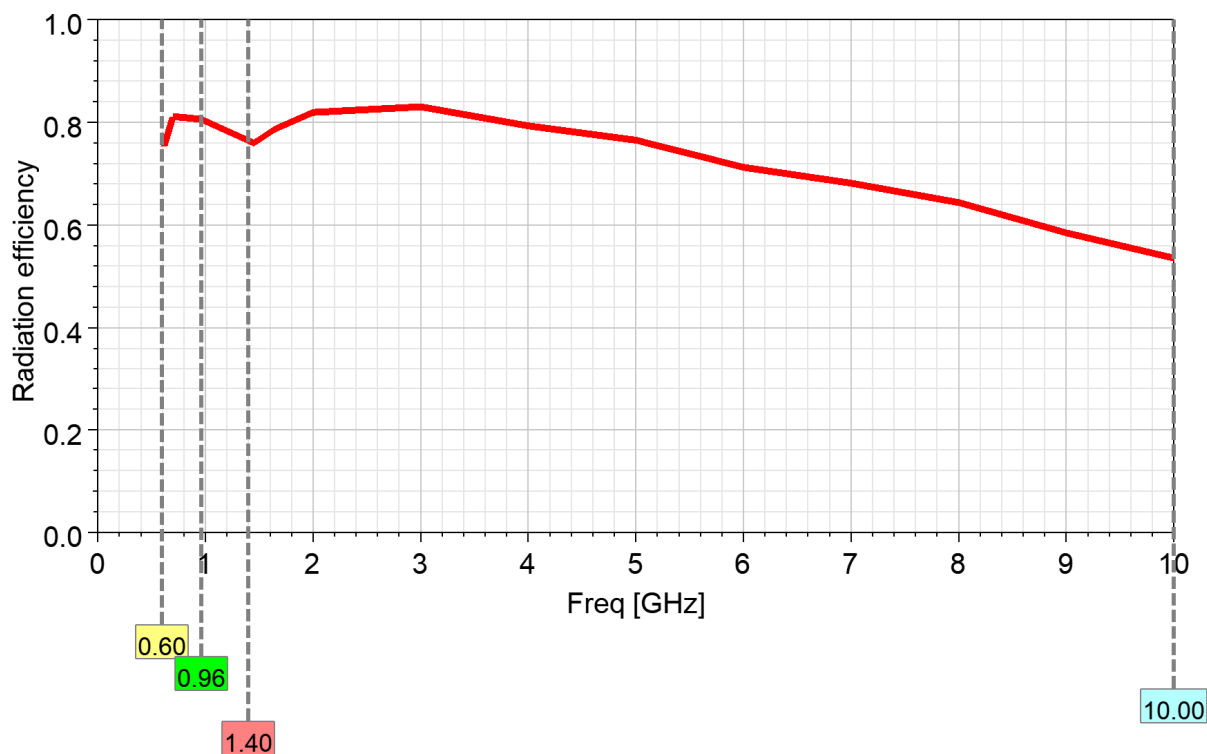
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Peak realized gain



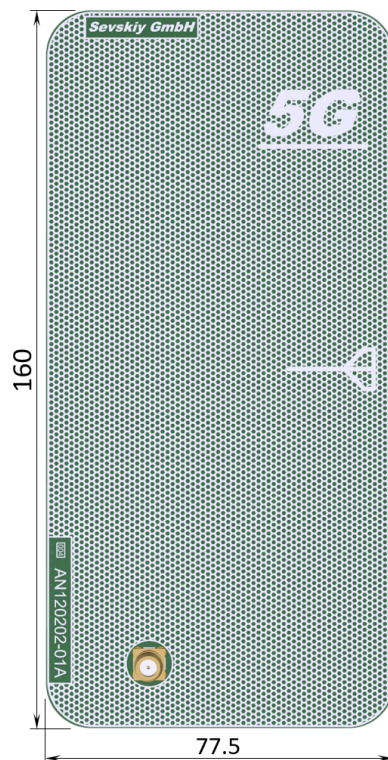
Radiation efficiency



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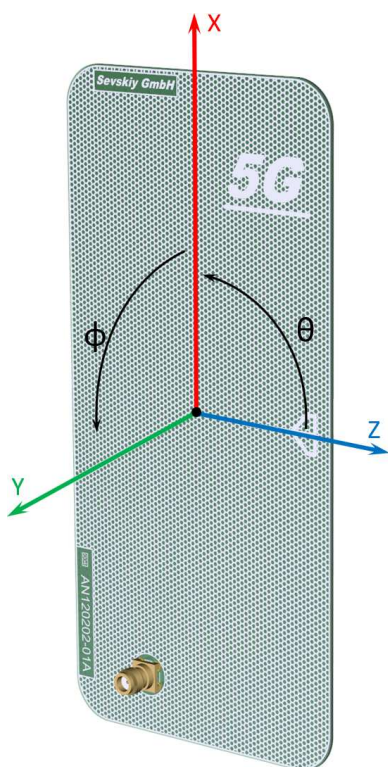
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Product dimensions



Units: mm

Coordinate system



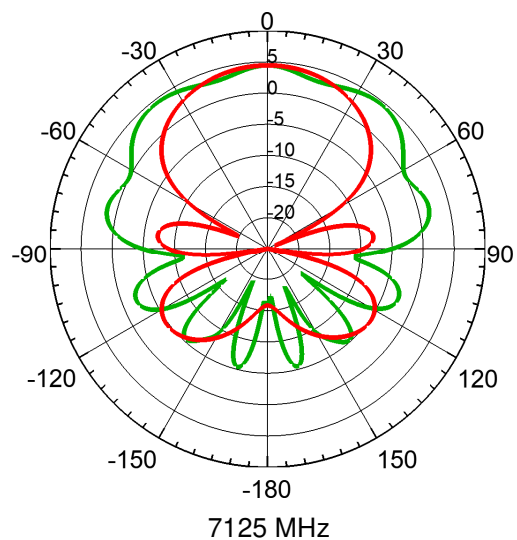
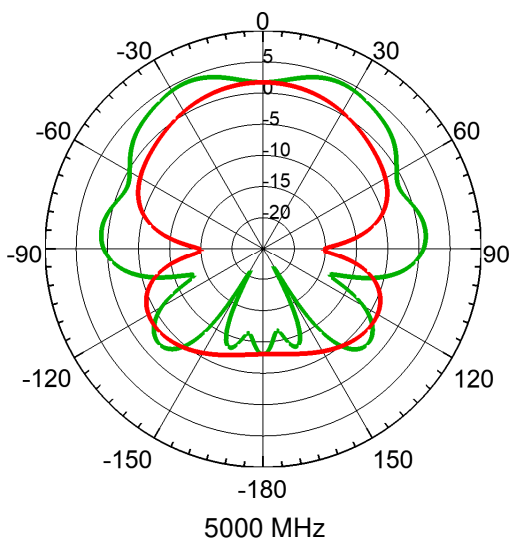
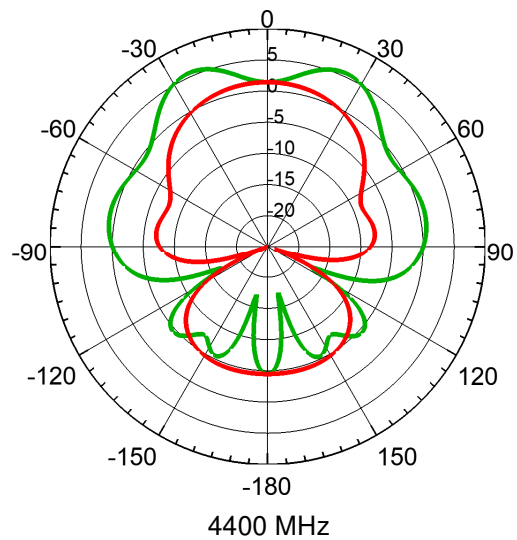
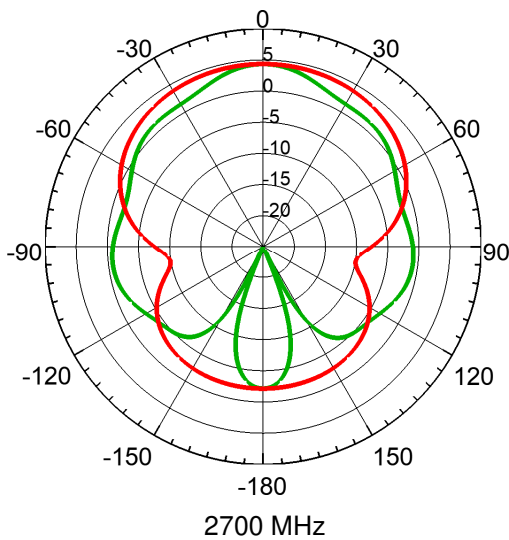
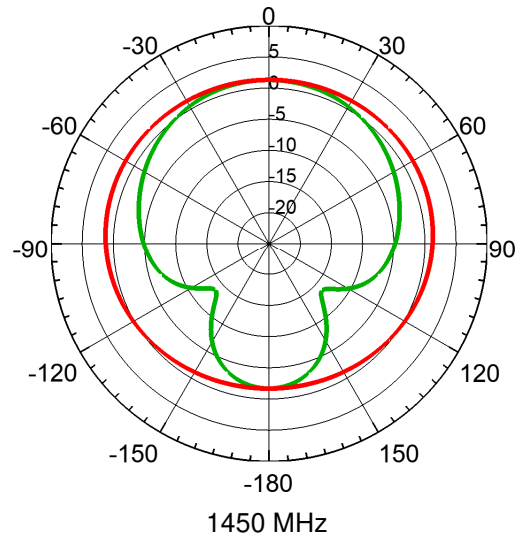
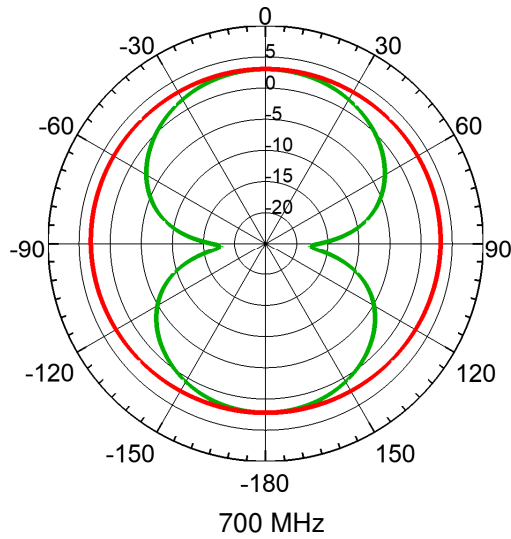
Phi=0°, plane XZ, green curve
Phi=90°, plane YZ, red curve

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Radiation pattern

Total realized gain [dBi]



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