

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



General information

The AN120202-01H 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 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, 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]	-13	-10
Peak gain [dBi]	2...3.6	1.6...5.5
Radiation efficiency [%]	75...85	60...80
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⁾	IPEX MHF1 / Hirose U.FL (UMCC) compatible ¹⁾
PCB material	FR4
Weight [g]	26

Additional information

¹⁾ Other connector types can be offered on request.

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

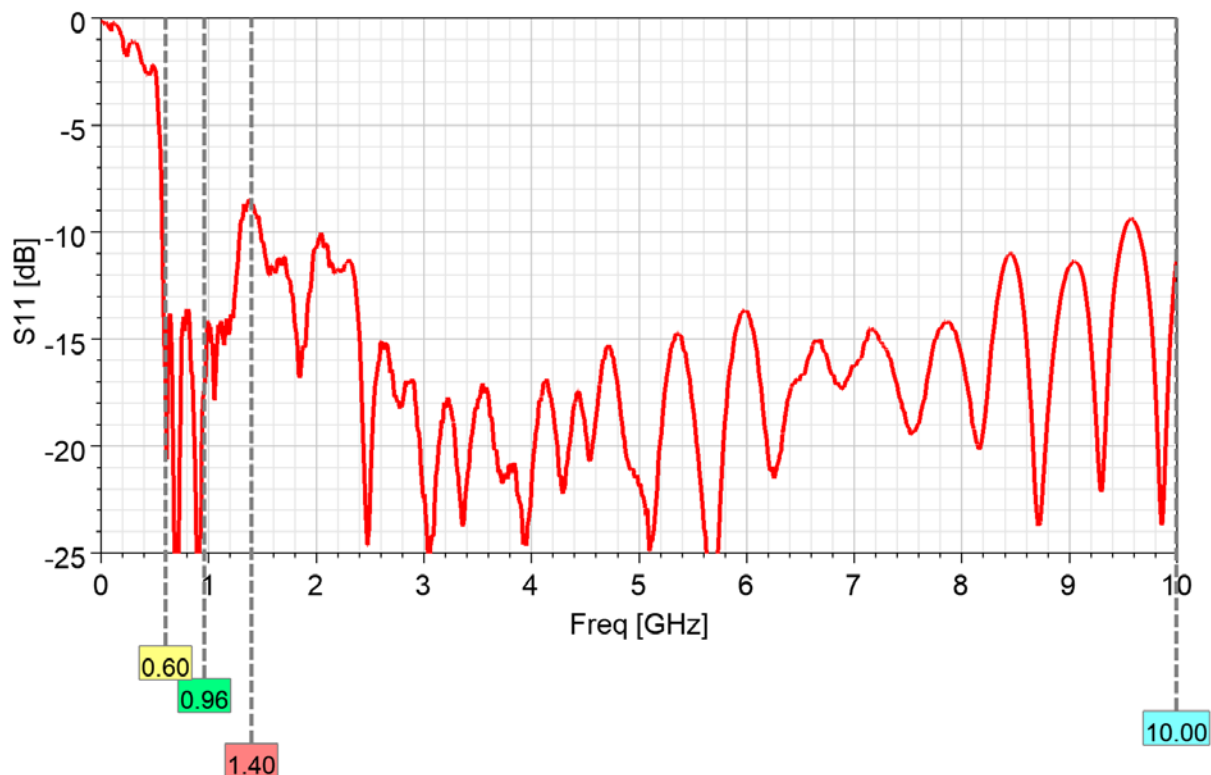
Further customization, electromagnetic simulations and measurements can be offered on request.

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

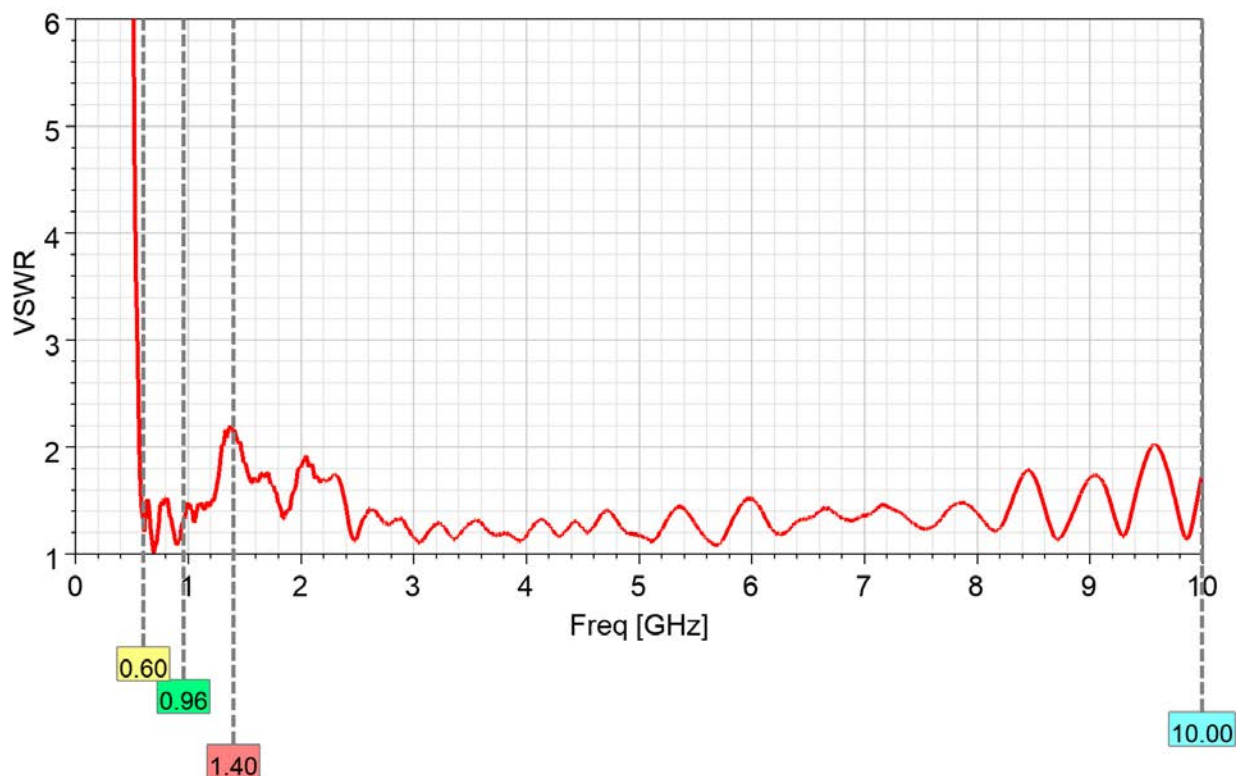
All information (including technical data and pictures) presented in this document is typical and subject to change without notice. Sevskiy is a registered trade mark of Sevskiy GmbH. Copyright © 2009 - 2026 Sevskiy GmbH. All rights reserved. No warranties.

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

Measured input impedance matching



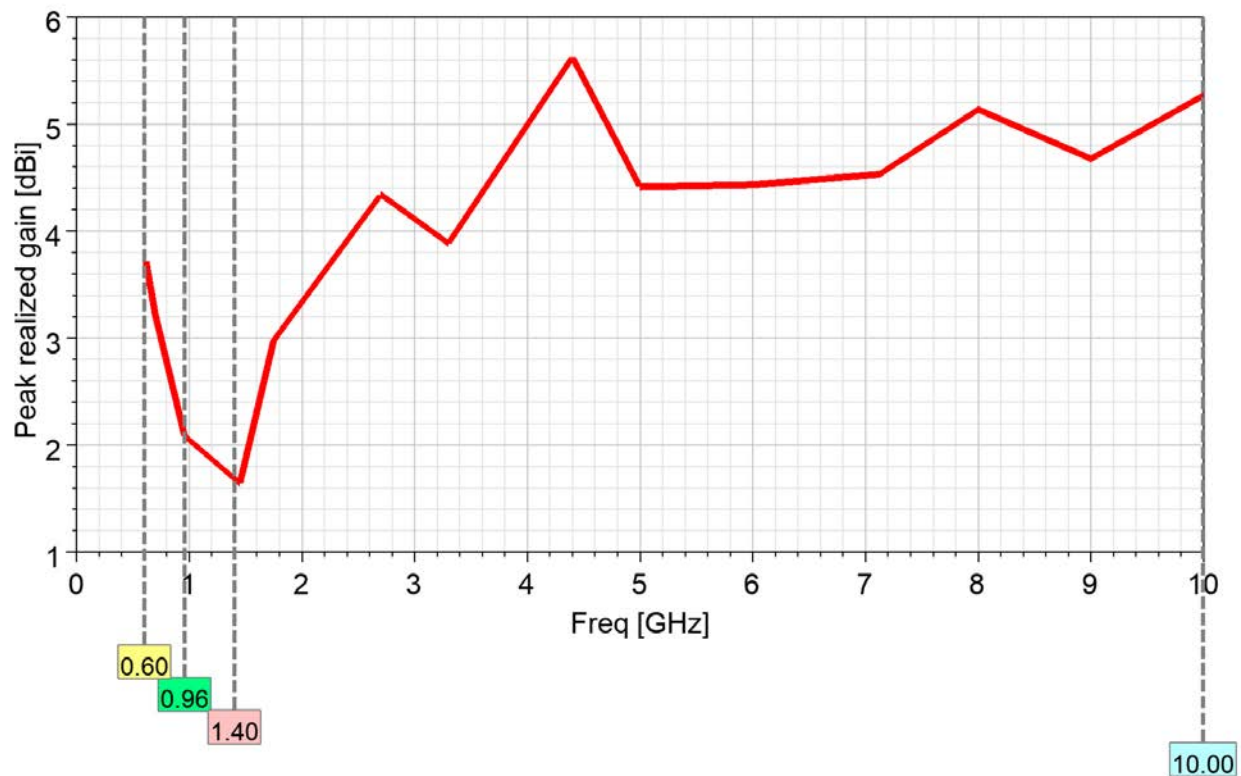
VSWR



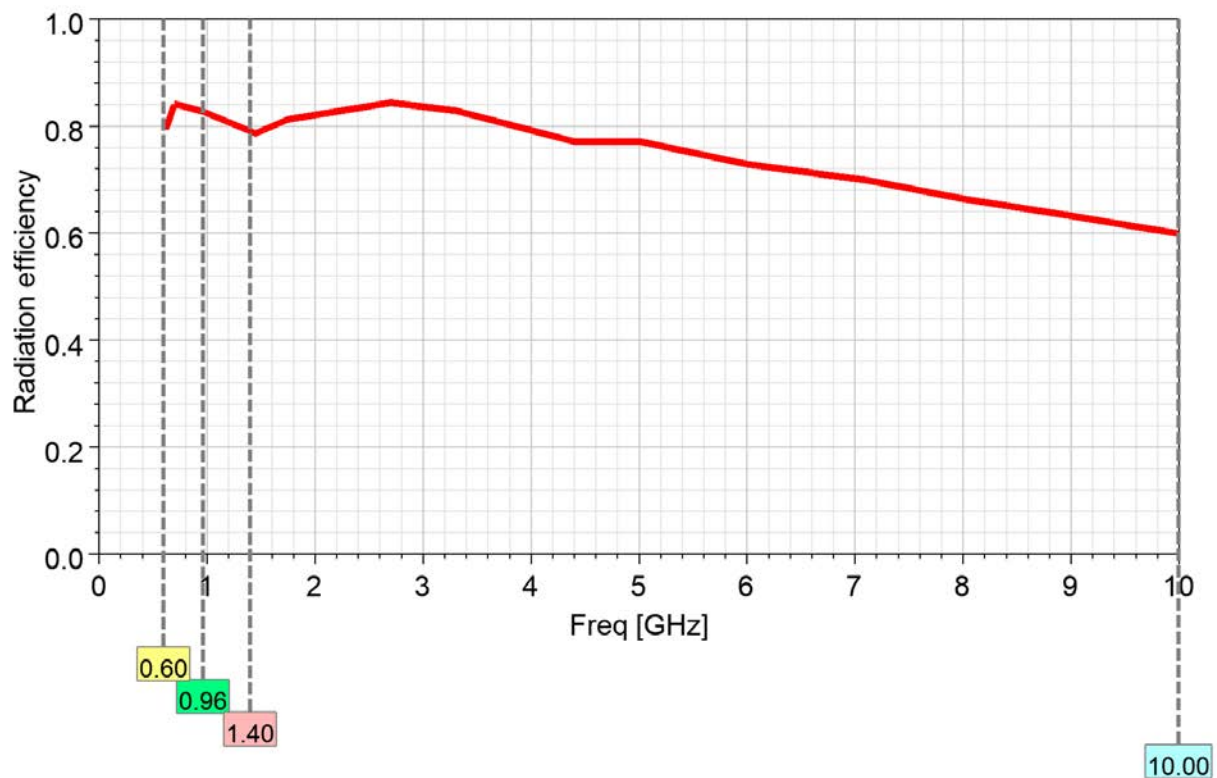
All information (including technical data and pictures) presented in this document is typical and subject to change without notice. Sevskiy is a registered trade mark of Sevskiy GmbH. Copyright © 2009 - 2026 Sevskiy GmbH. All rights reserved. No warranties.

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

Peak realized gain



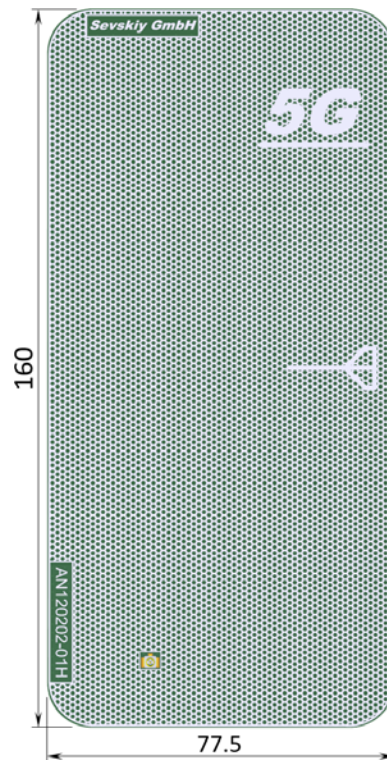
Radiation efficiency



All information (including technical data and pictures) presented in this document is typical and subject to change without notice. Sevskiy is a registered trade mark of Sevskiy GmbH. Copyright © 2009 - 2026 Sevskiy GmbH. All rights reserved. No warranties.

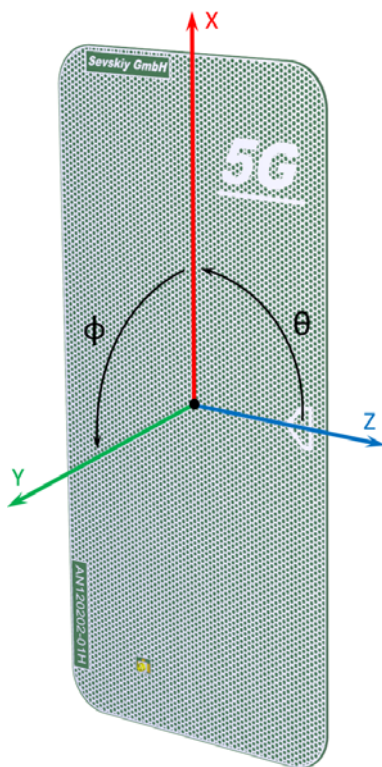
600...960 MHz / 1400...10000 MHz Vivaldi antenna (5G NR, LTE, ISM, RFID, IoT, BT, Wi-Fi 2.4/5/6)

Product dimensions



Units: mm

Coordinate system



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

All information (including technical data and pictures) presented in this document is typical and subject to change without notice. Sevskiy is a registered trade mark of Sevskiy GmbH. Copyright © 2009 - 2026 Sevskiy GmbH. All rights reserved. No warranties.

Sevskiy GmbH, CEO: Dr. Sergey Sevskiy
Office: Schatzbogen 43, Munich, Germany

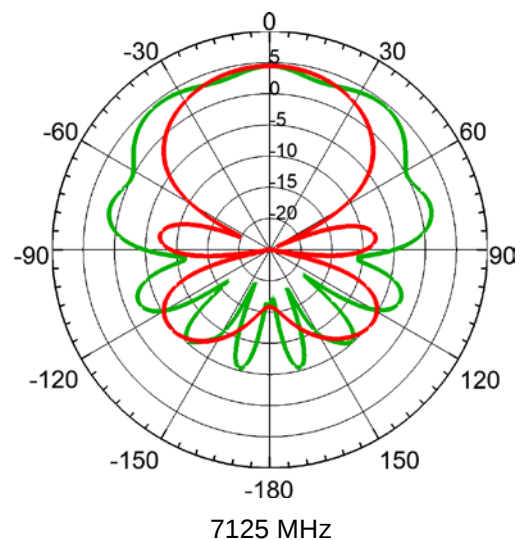
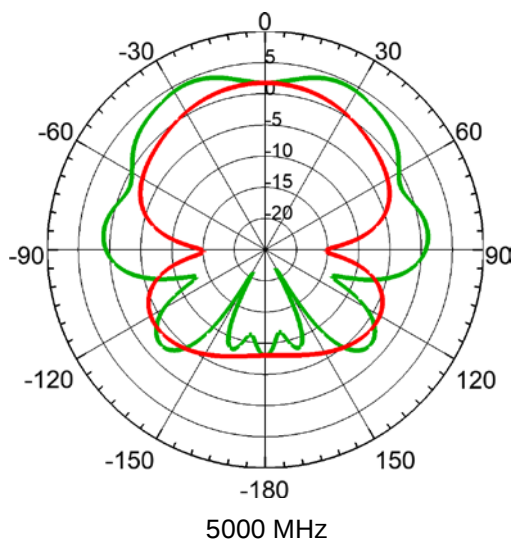
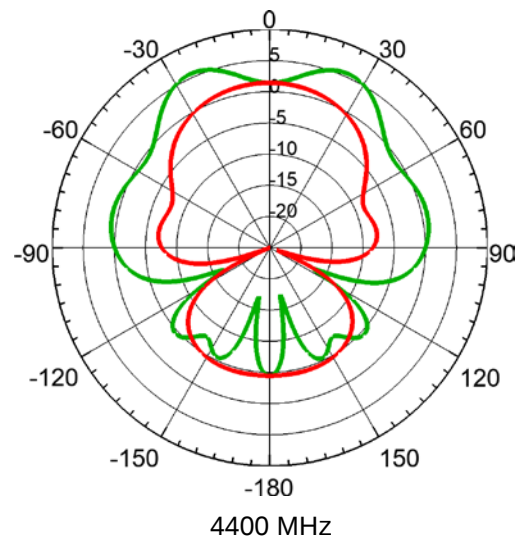
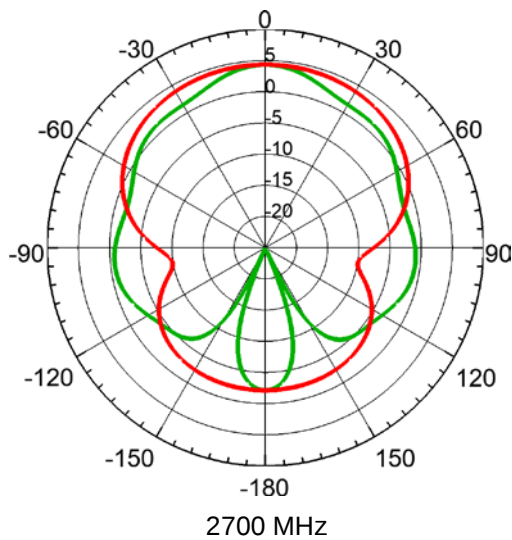
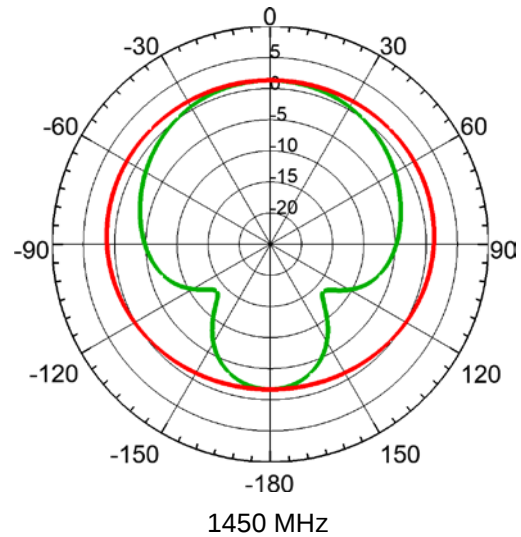
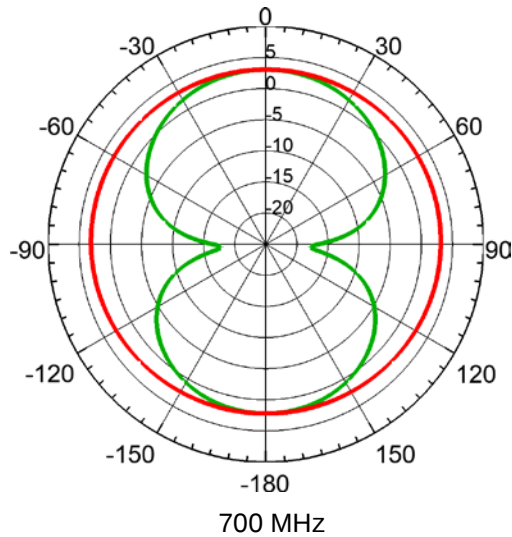
Tel.: +49 89 38-90-7229
Fax: +49 89 38-90-7230

E-Mail: sergey@sevskiy.de
Internet: www.sevskiy.com

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

Radiation pattern

Total realized gain [dBi]



All information (including technical data and pictures) presented in this document is typical and subject to change without notice. Sevskiy is a registered trade mark of Sevskiy GmbH. Copyright © 2009 - 2026 Sevskiy GmbH. All rights reserved. No warranties.