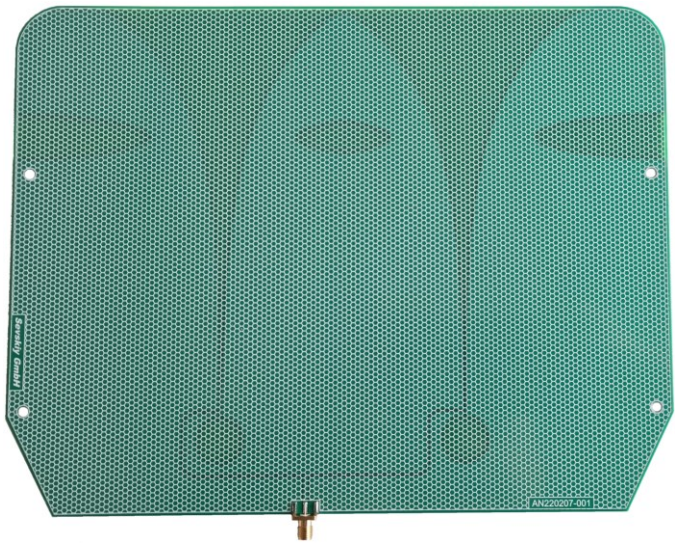
1200 MHz … 9000 MHz UWB Vivaldi E-plane antenna array



General information

Planar ultra-wideband (UWB) Vivaldi antenna for various applications including laboratory measurements, spectrum monitoring, remote sensing and control, etc.

Typical applications

ISM, RFID, IoT, LP-WAN, Smart meters, 5G, LTE, UMTS, GSM, UWB

Electrical data

Antenna type	UWB Vivaldi antenna array	
Frequency range [MHz]	1200...2170	2170…9000
Return loss [dB]	-12	-9
Peak gain [dBi]	7…10	7.8...10.8
Radiation efficiency [%]	80…90	40…80
Nominal input impedance [Ohm]	50	
Polarization	linear	
Radiation pattern	directional	
Maximum input power [W]	5	

Mechanical data

Antenna PCB dimensions [mm]	273 x 210 x 1.6
Connector type	SMA (female)
PCB material	FR4
Weight [g]	200

Environmental data

Operating temperature [ºC]	-40…+85
Storage temperature [ºC]	-40…+85
Ambient relative humidity [%]	0…95
RoHS / REACH compliant	yes / yes

Additional information

Other mechanical designs, materials or frequency bands are possible on request.

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

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 – 2024 Sevskiy GmbH. All rights reserved. No warranties.

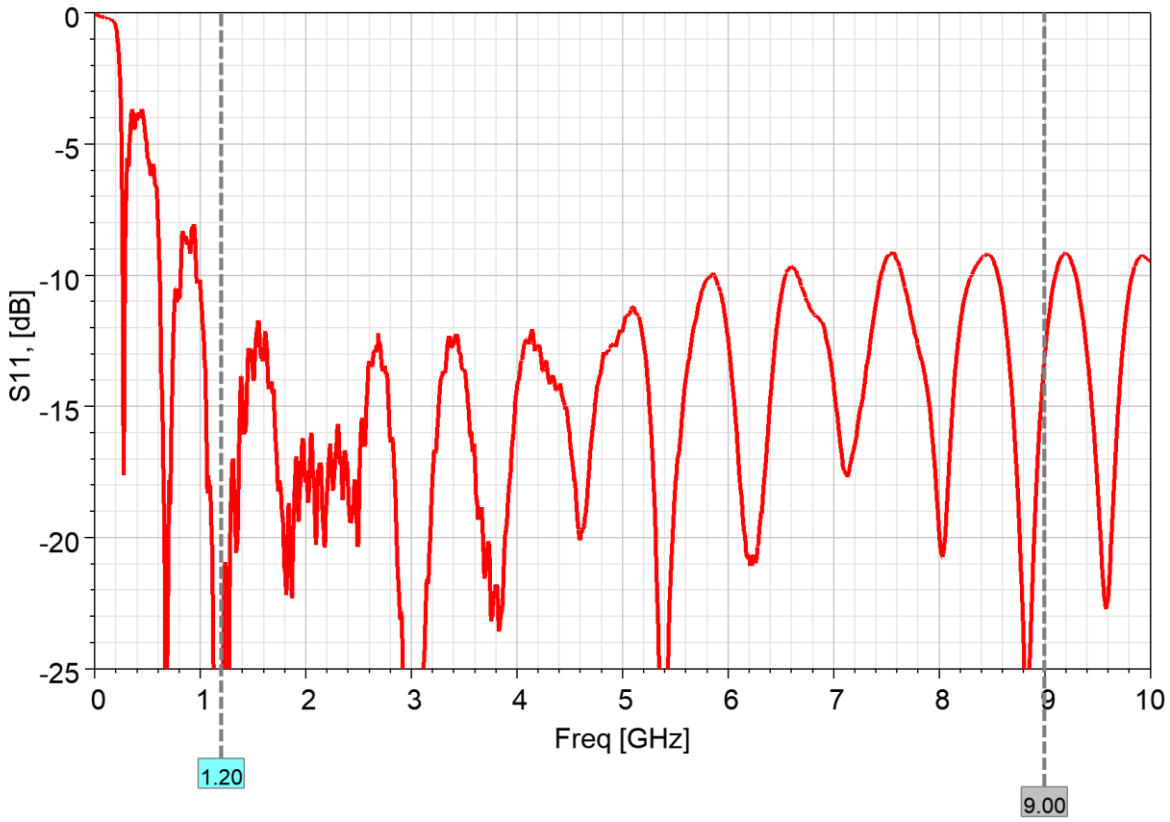
Sevskiy GmbH, CEO: Dr. Sergey Sevskiy
Office: Schatzbogen 43, Munich, Germany

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

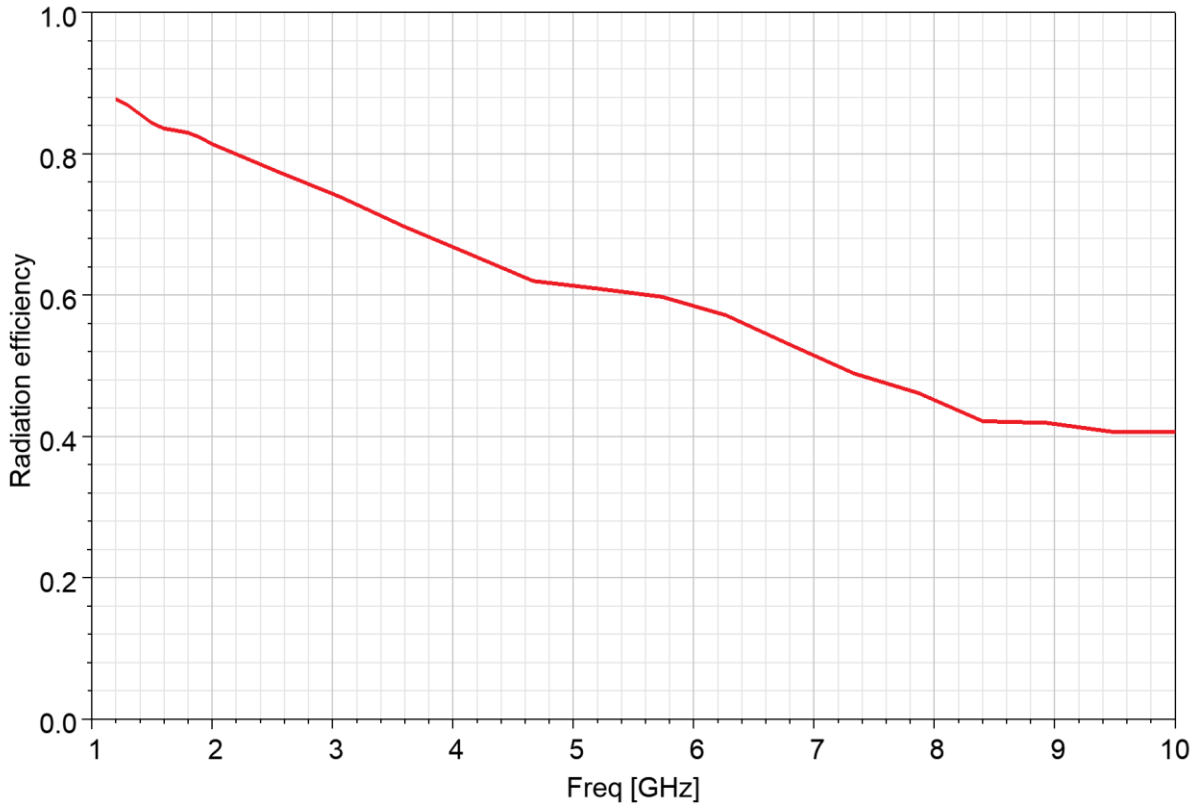
E-Mail: sergey@sevskiy.de
Internet: www.sevskiy.com

1200 MHz … 9000 MHz UWB Vivaldi E-plane antenna array

Measured input impedance matching



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 – 2024 Sevskiy GmbH. All rights reserved. No warranties.

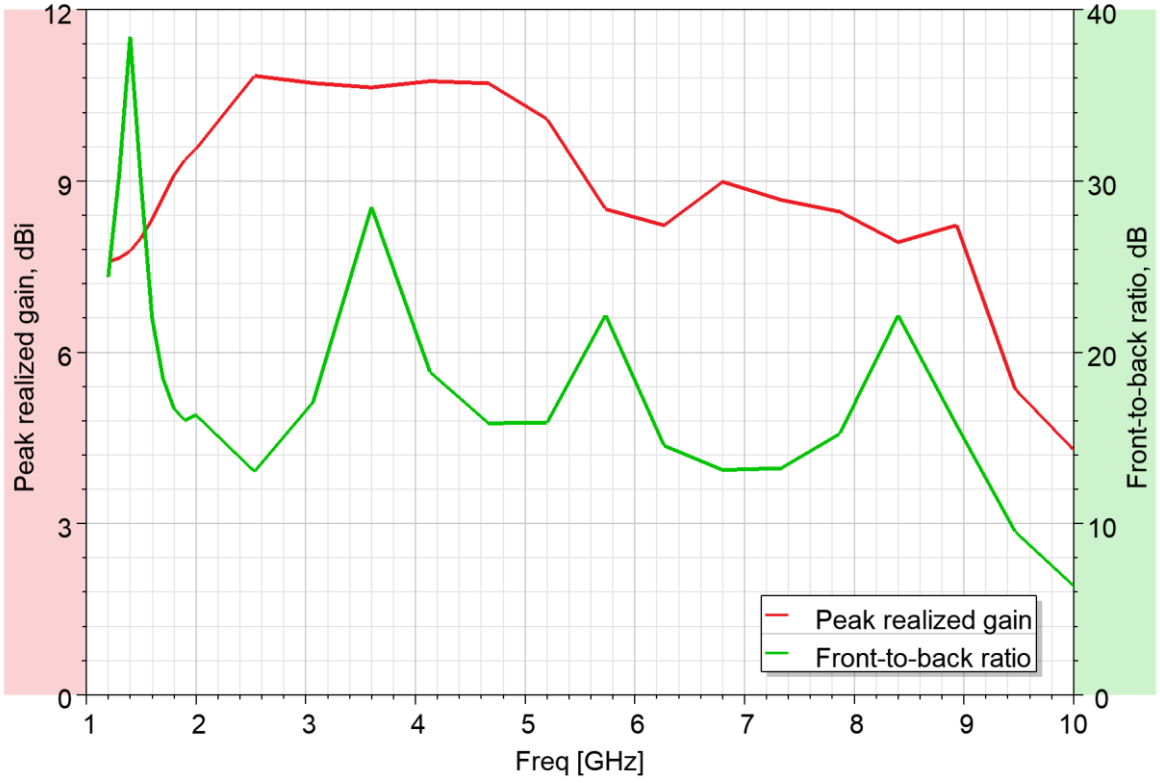
Sevskiy GmbH, CEO: Dr. Sergey Sevskiy
Office: Schatzbogen 43, Munich, Germany

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

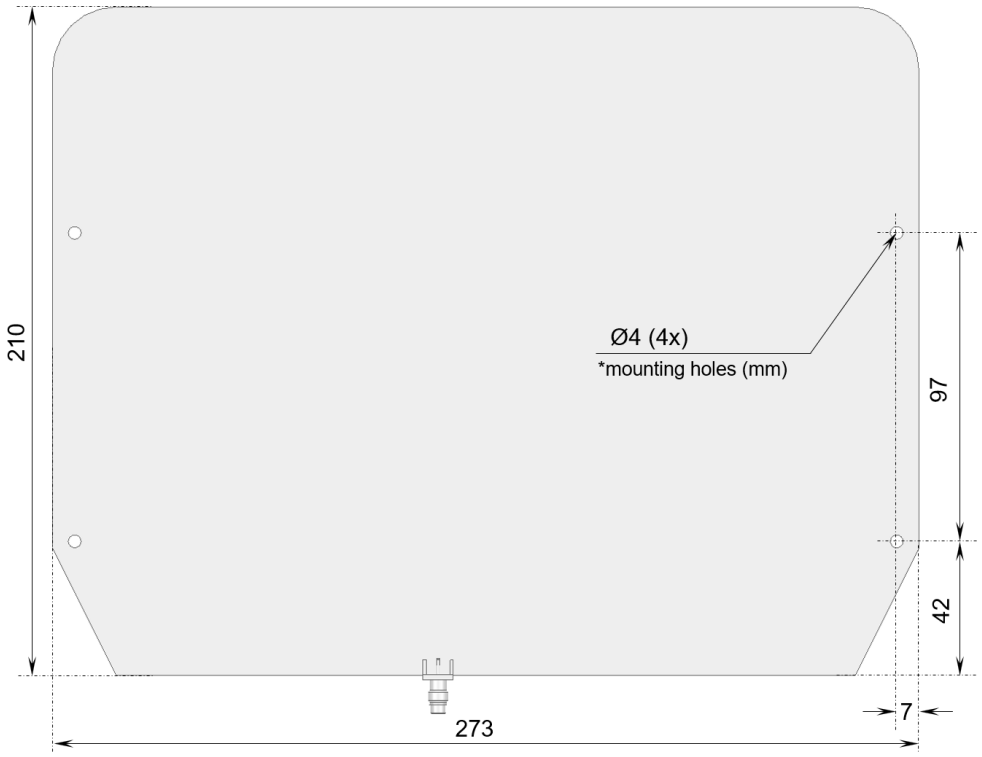
E-Mail: sergey@sevskiy.de
Internet: www.sevskiy.com

1200 MHz … 9000 MHz UWB Vivaldi E-plane antenna array

Peak realized gain and front-to-back ratio



Product dimensions

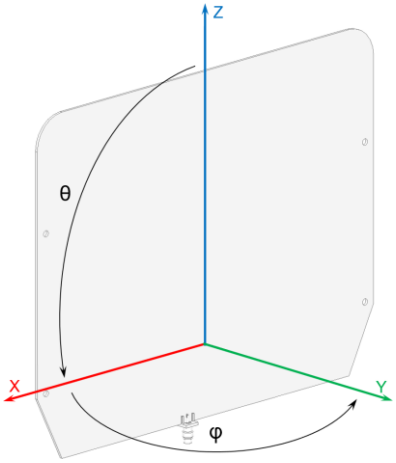


All information (including technical data and pictures) presented in this document is typical and subject to change without notice. Sevskiy is a registered trade mark of Sevskiy GmbH. Copyright © 2009 – 2024 Sevskiy GmbH. All rights reserved. No warranties.

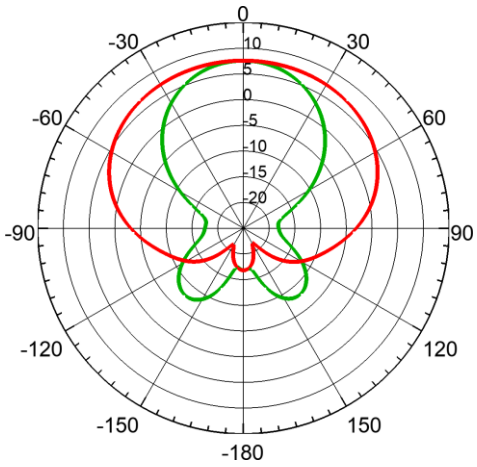
Sevskiy GmbH, CEO: Dr. Sergey Sevskiy
Office: Schatzbogen 43, Munich, Germany
Tel.: +49 89 38-90-7229
Fax: +49 89 38-90-7230
E-Mail: sergey@sevskiy.de
Internet: www.sevskiy.com

1200 MHz … 9000 MHz UWB Vivaldi E-plane antenna array

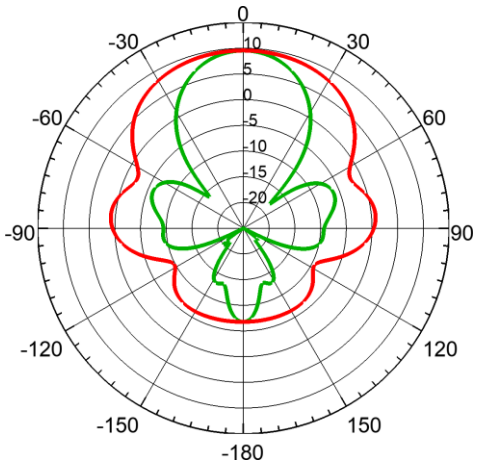
Radiation pattern (total realized gain)



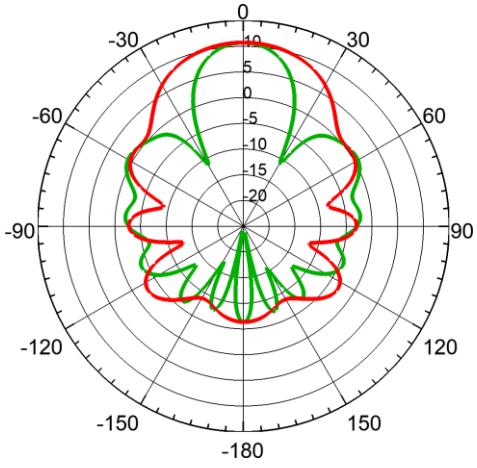
Phi=0°, plane XZ, green curve
Phi=90°, plane YZ, red curve



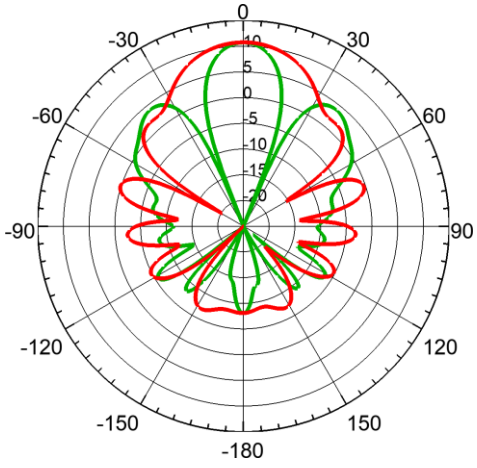
f = 1200 MHz



f = 2000 MHz



f = 3000 MHz



f = 4000 MHz

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 – 2024 Sevskiy GmbH. All rights reserved. No warranties.

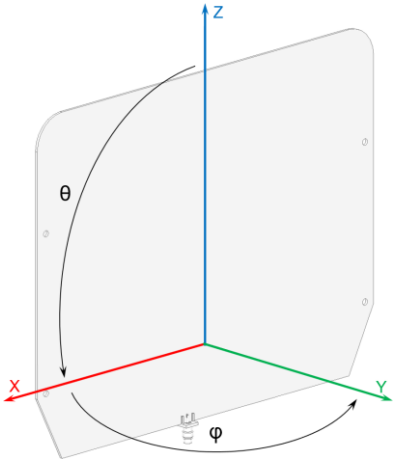
Sevskiy GmbH, CEO: Dr. Sergey Sevskiy
Office: Schatzbogen 43, Munich, Germany

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

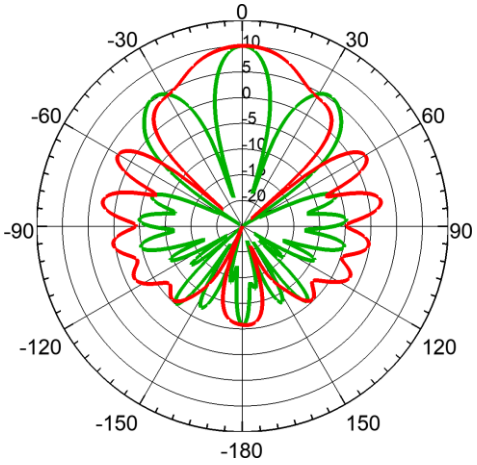
E-Mail: sergey@sevskiy.de
Internet: www.sevskiy.com

1200 MHz … 9000 MHz UWB Vivaldi E-plane antenna array

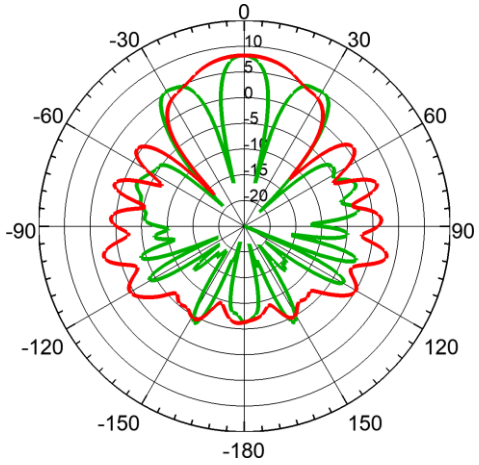
Radiation pattern (total realized gain)



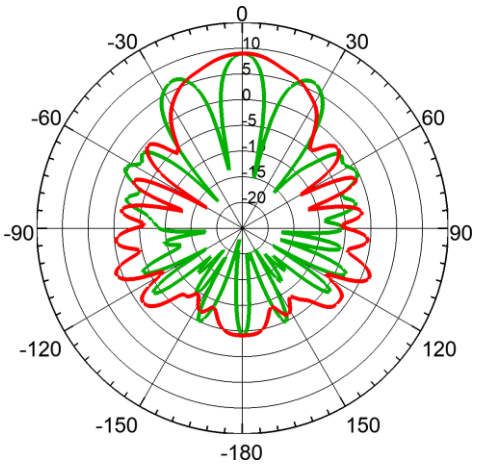
Phi=0°, plane XZ, green curve
Phi=90°, plane YZ, red curve



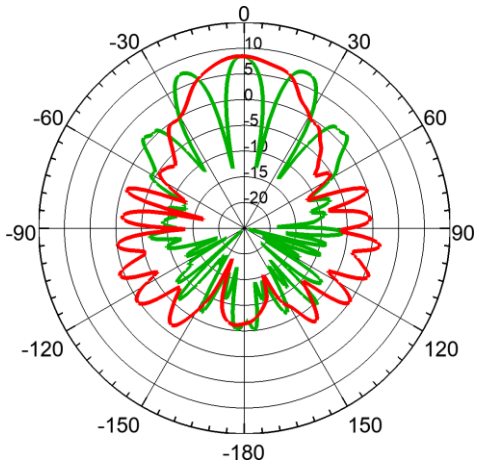
f = 5000 MHz



f = 6000 MHz



f = 7000 MHz



f = 8000 MHz

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 – 2024 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