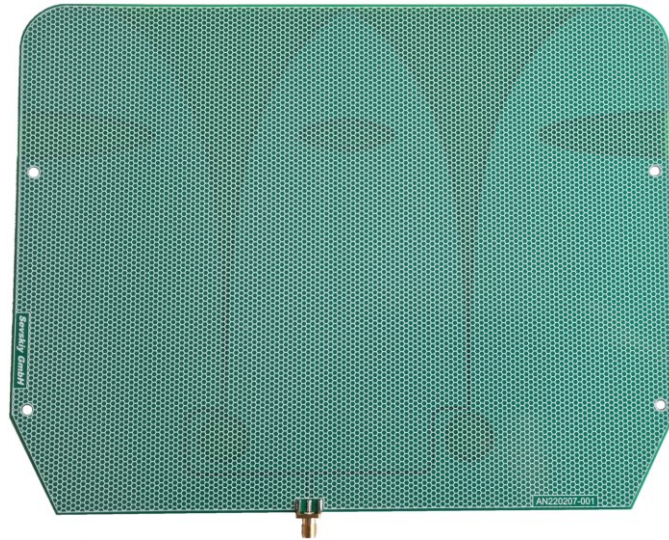


1200 MHz / 9000 MHz UWB Vivaldi E-plane antenna array



General information

Ultra-wideband Vivaldi antenna array is used for various applications including laboratory measurements, spectrum monitoring, remote sensing etc.

Typical applications

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

Electrical data

Antenna type	UWB Vivaldi antenna array	
Frequency range [MHz]	1200...2000	2000...9000
Return loss [dB]	-12	-10
Peak gain [dBi]	7...9	8...11
Radiation efficiency [%]	85...90	40...80
Nominal input impedance [Ohm]	50	
Polarization	linear	
Radiation pattern	directional	
Maximum input power [W]	5	

Mechanical data

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

Environmental data

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

Additional information

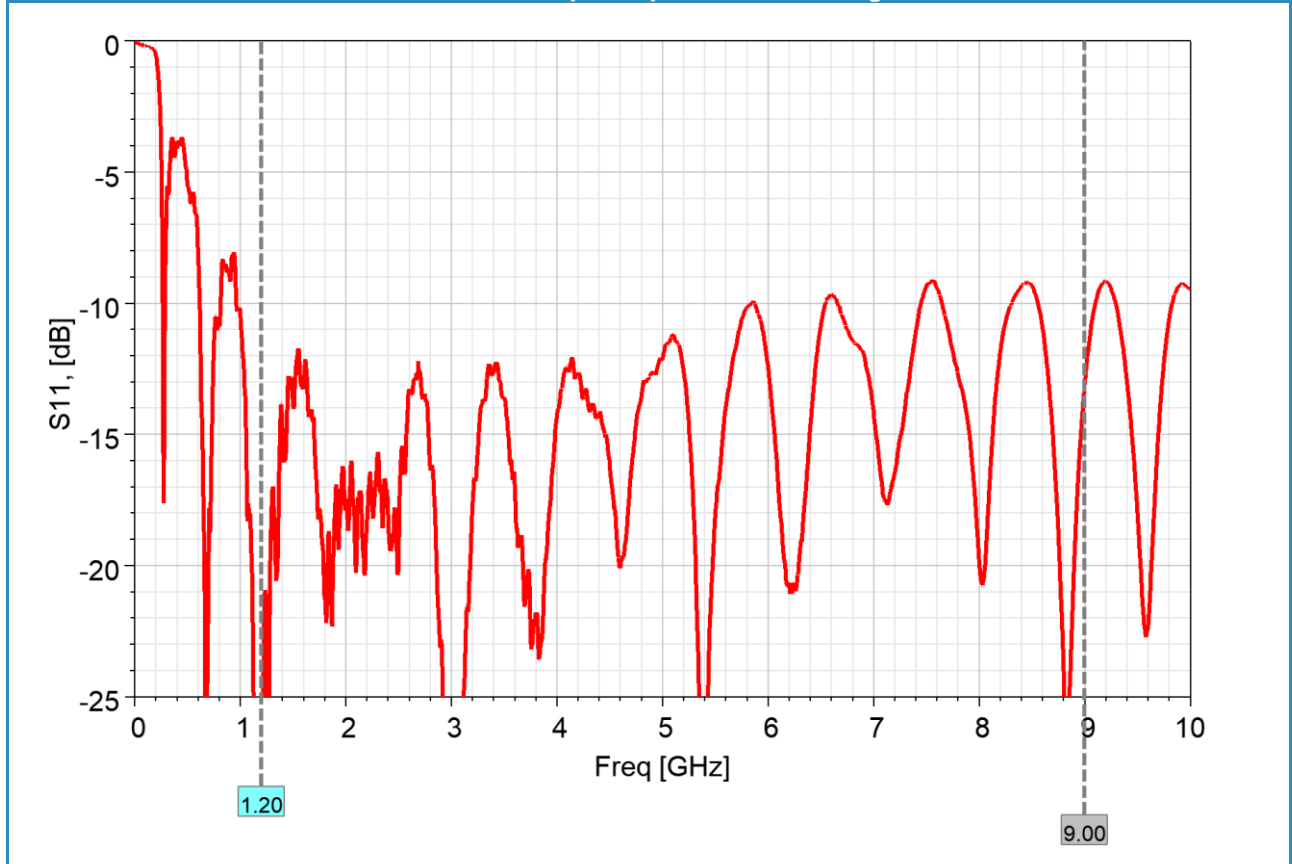
Other mechanical designs, materials or frequency bands are possible on request.

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

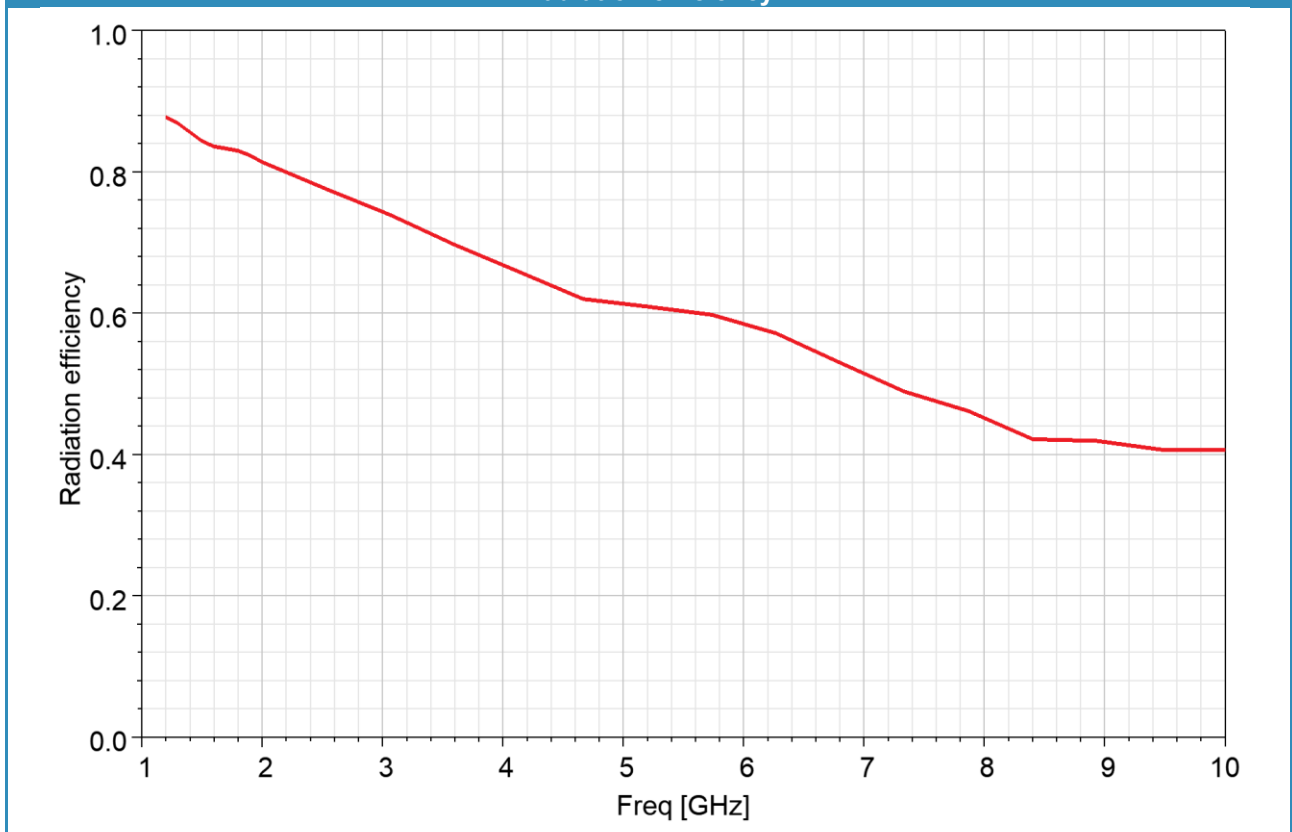
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Measured input impedance matching



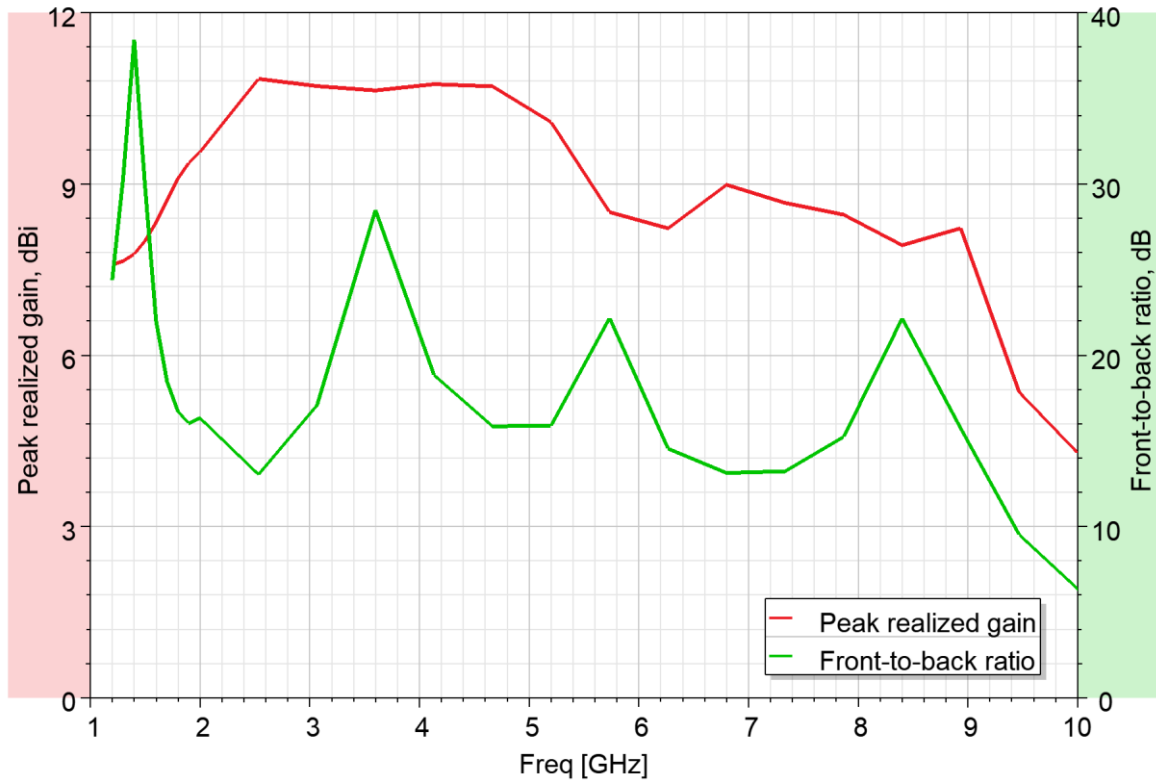
Radiation efficiency



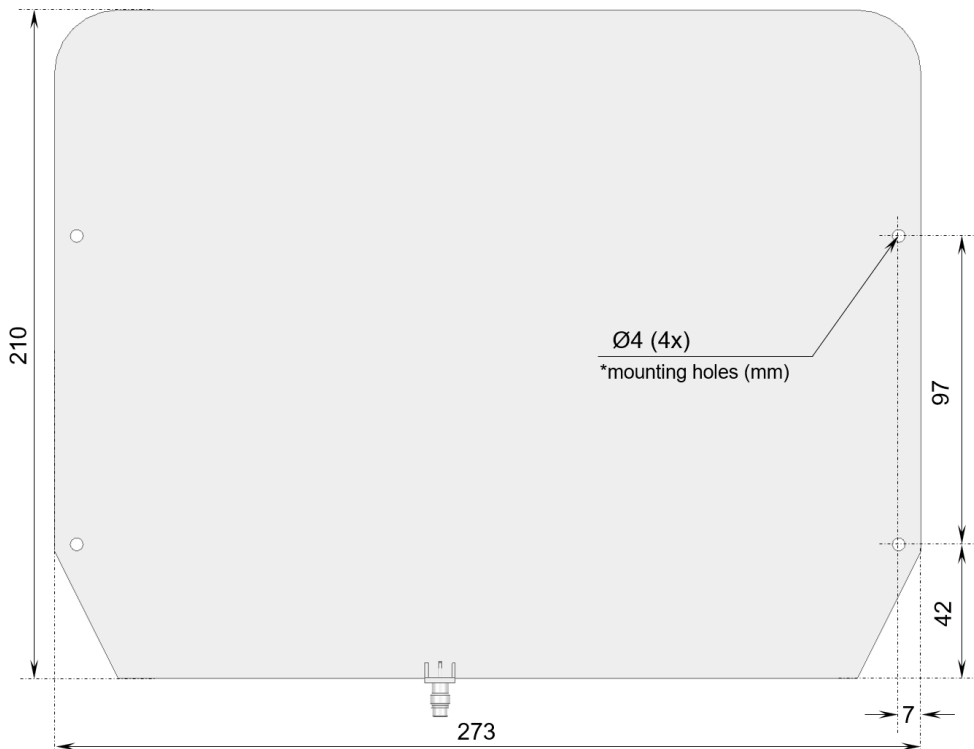
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Peak realized gain and front-to-back ratio



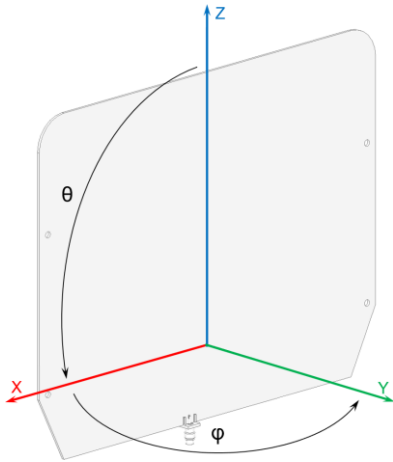
Product dimensions



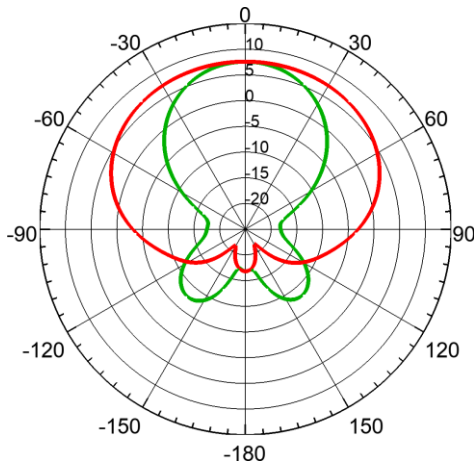
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1200 MHz / 9000 MHz UWB Vivaldi E-plane antenna array

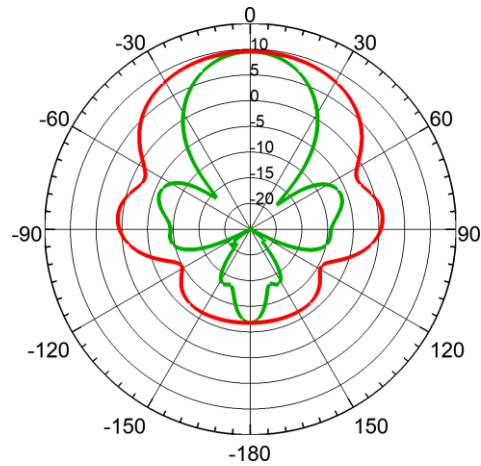
Radiation pattern (total realized gain)



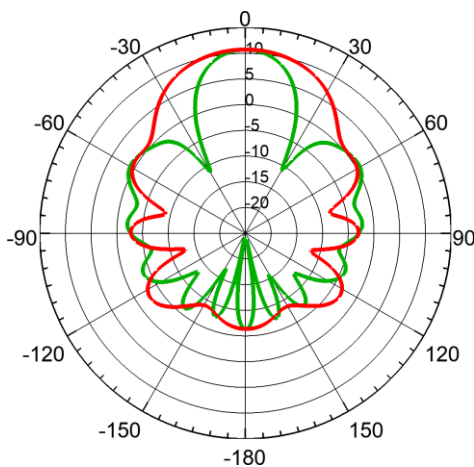
Phi=0°, plane XZ, green curve
Phi=90°, plane YZ, red curve



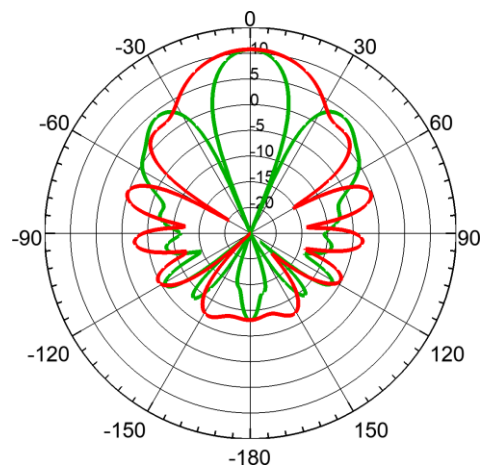
f = 1200 MHz



f = 2000 MHz



f = 3000 MHz

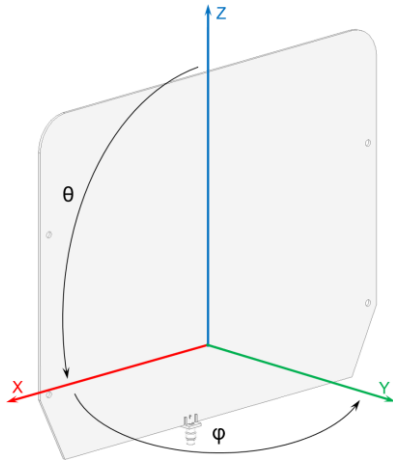


f = 4000 MHz

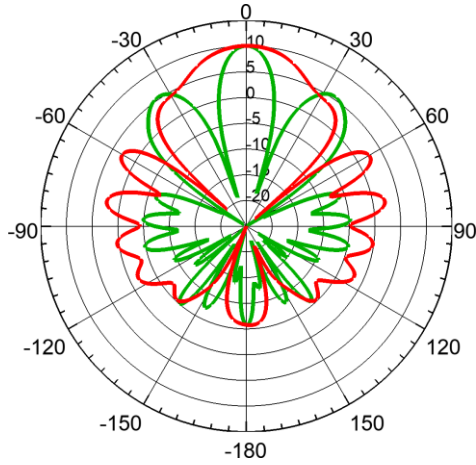
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1200 MHz / 9000 MHz UWB Vivaldi E-plane antenna array

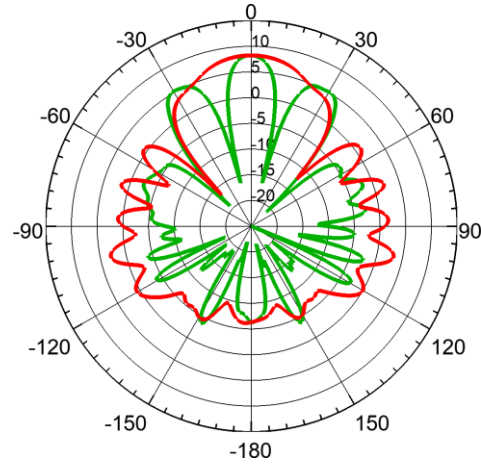
Radiation pattern (total realized gain)



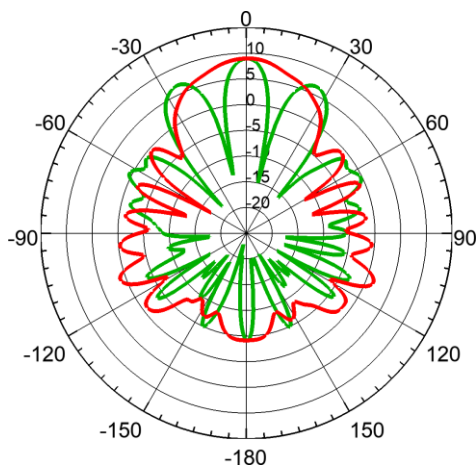
Phi=0°, plane XZ, green curve
Phi=90°, plane YZ, red curve



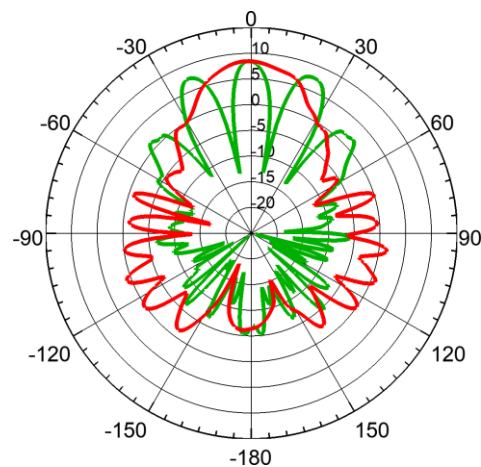
f = 5000 MHz



f = 6000 MHz



f = 7000 MHz



f = 8000 MHz

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