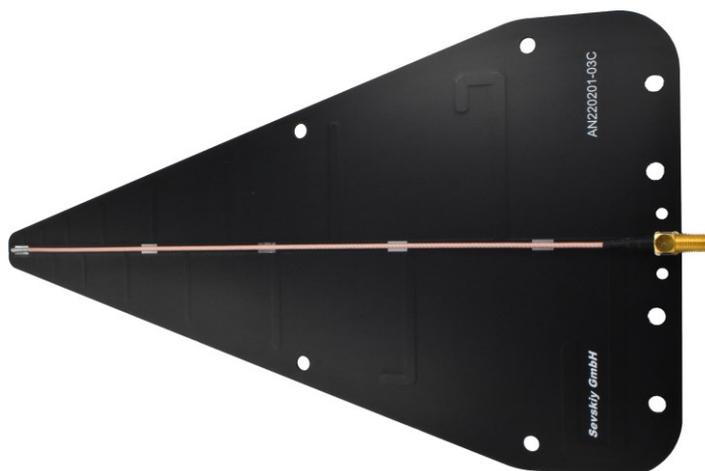


750 MHz / 9000 MHz UWB log-periodic antenna



General information

Planar ultra-wideband log-periodic antenna is used for various applications including laboratory measurements, spectrum monitoring etc.

Typical applications

ISM, RFID, IoT (Sigfox, LoRa), LP-WAN, Smart meters, LTE, 5G, UMTS, GSM, UWB, drone control

Electrical data

Antenna type	Log-periodic antenna	
5G bands	1, 2, 3, 5, 8, 18, 25, 26, 34, 39, 65, 66, 70, 80 - 82, 84, 86, 89, 95, 98	
4G bands	1 - 6, 8 -10, 18 - 20, 23, 25 - 27, 33 - 37, 39, 65, 66, 70	
Frequency range [MHz]	790...1500	1500...9000
Return loss [dB]	-8	-7
Peak gain [dBi]	1.5...5	5...6
Radiation efficiency [%]	65...75	45...65
Nominal input impedance [Ohm]	50	
Polarization	linear	
Radiation pattern	directional	
Maximum input power [W]	5	

Mechanical data

Antenna dimensions [mm]	262 x 150 x 1.6
Connector type	SMA Female
Weight [g]	85

Environmental data

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

Additional information

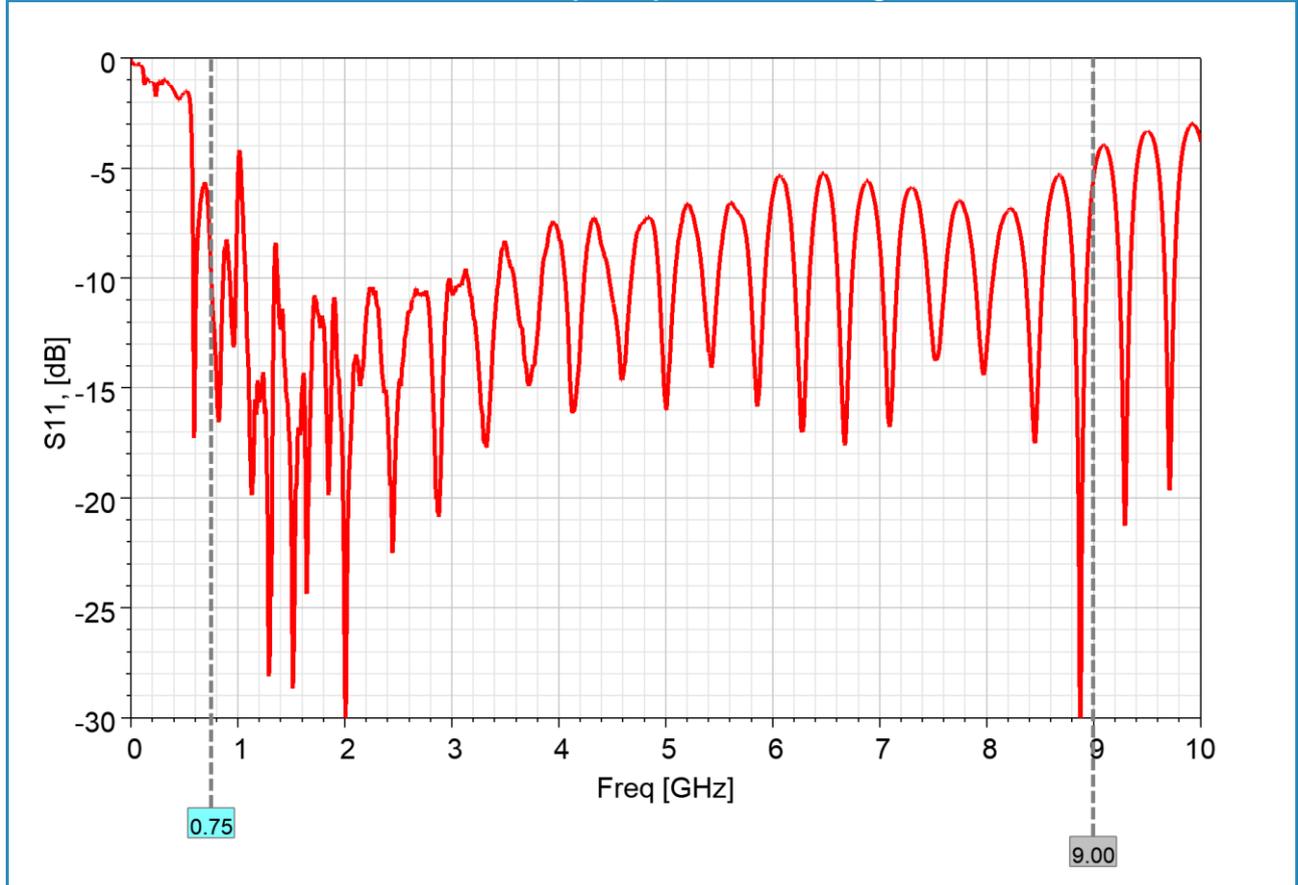
Other mechanical designs, materials or frequency bands are possible on request.

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

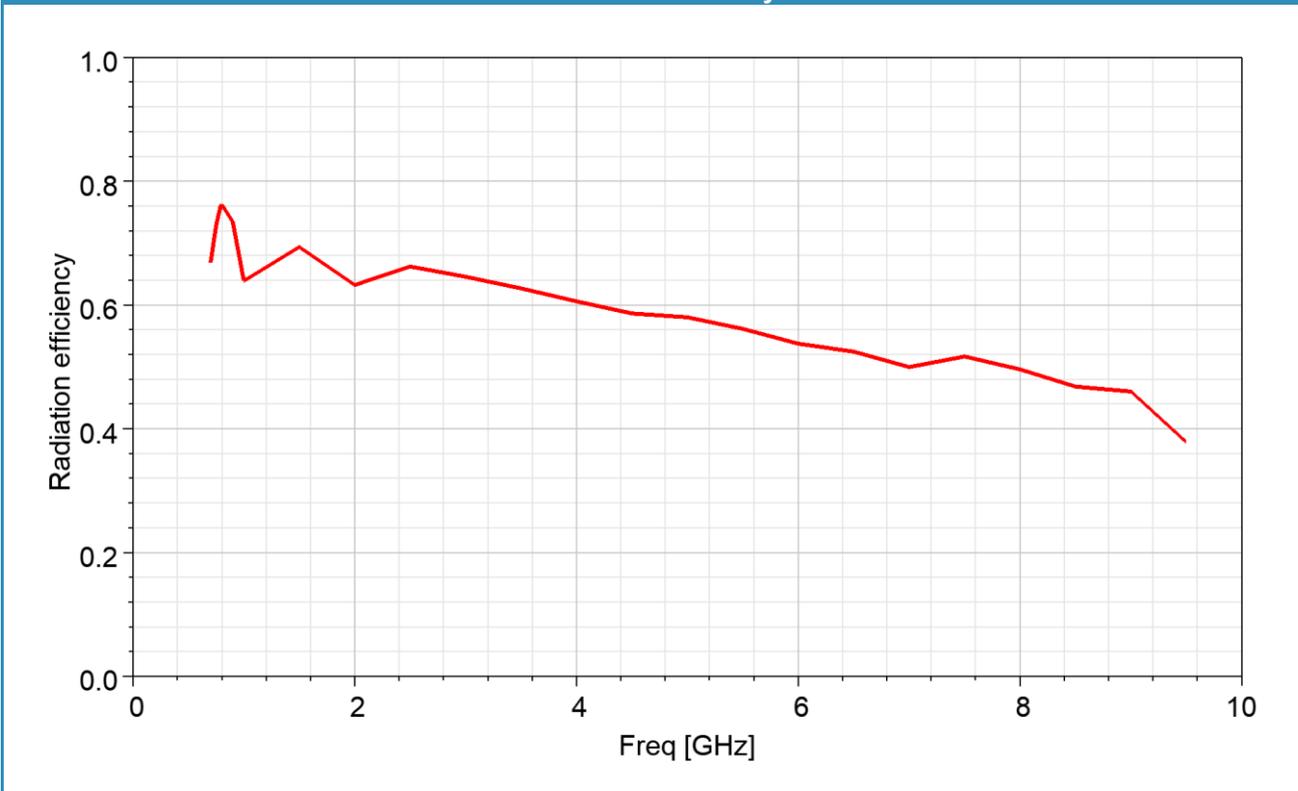
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750 MHz / 9000 MHz UWB log-periodic antenna

Measured input impedance matching



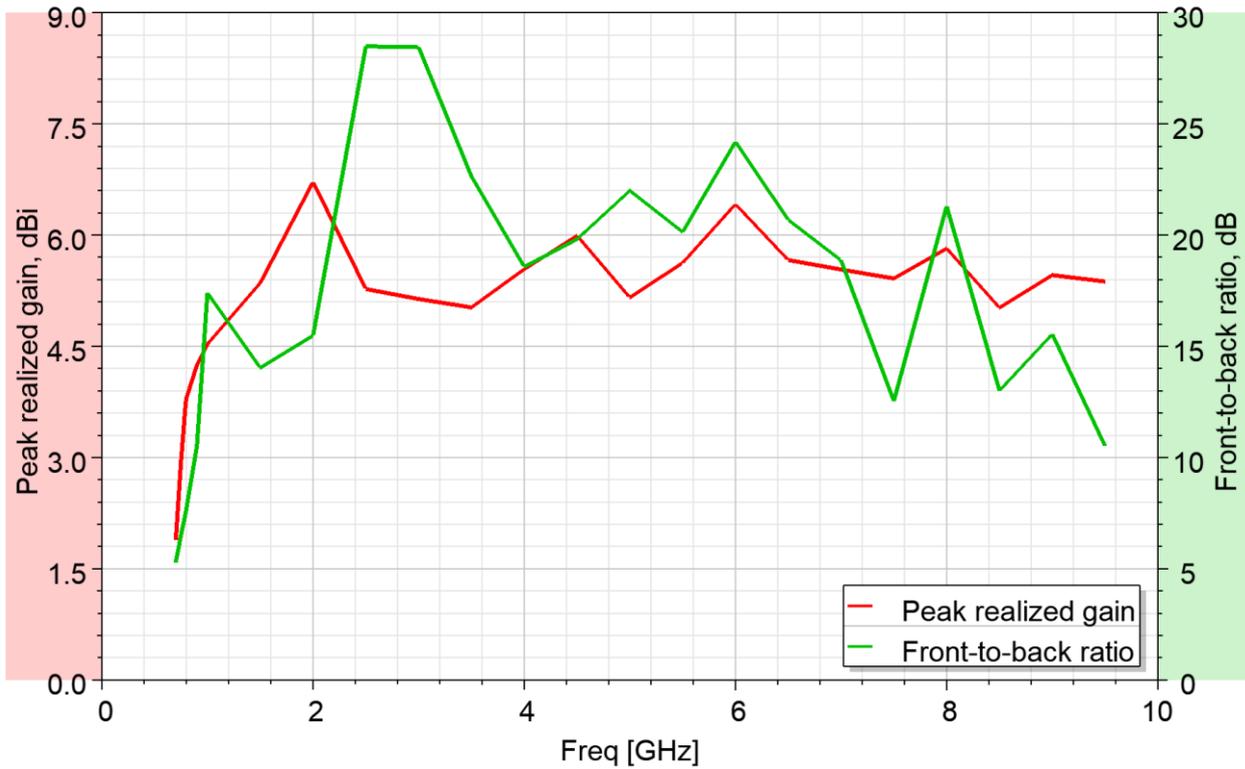
Radiation efficiency



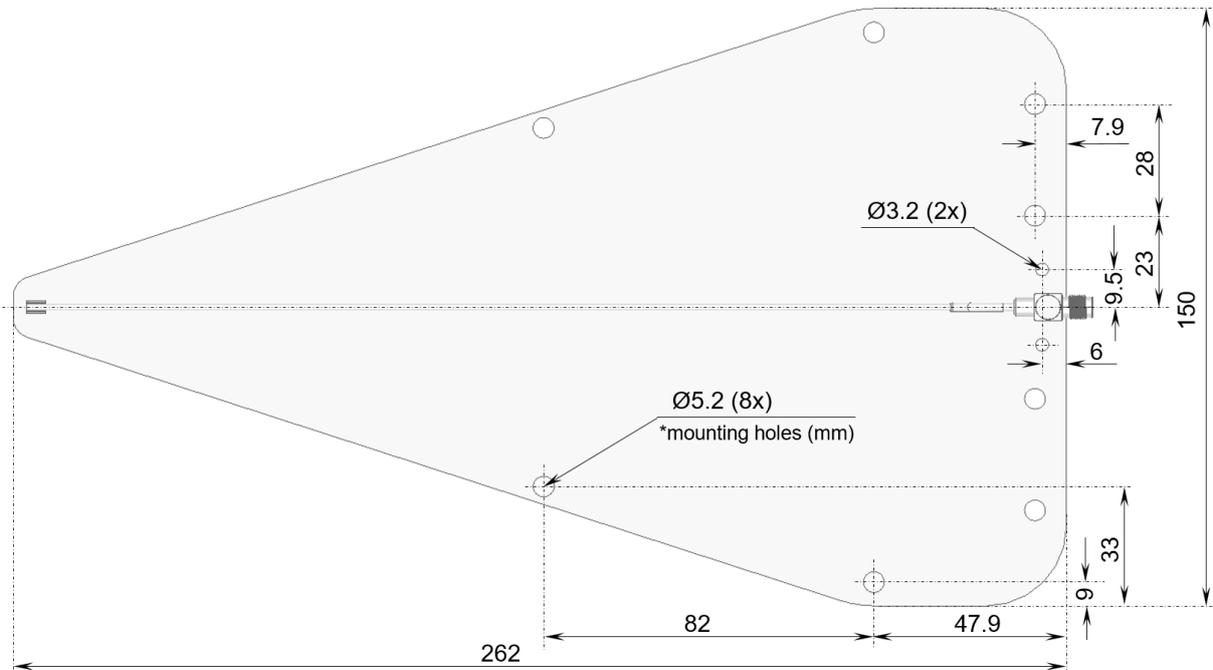
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750 MHz / 9000 MHz UWB log-periodic antenna

Peak realized gain and front-to-back ratio



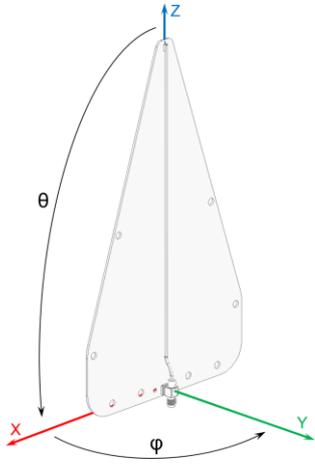
Product dimensions



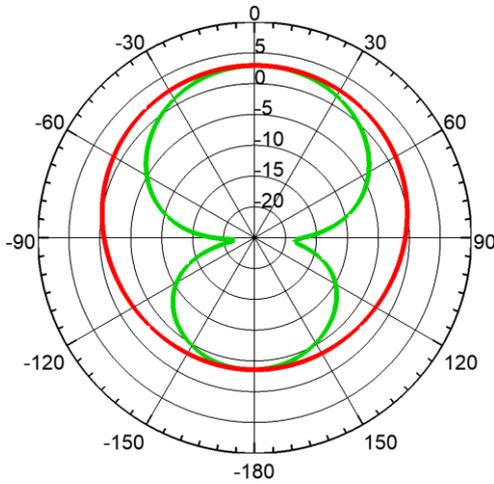
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750 MHz / 9000 MHz UWB log-periodic antenna

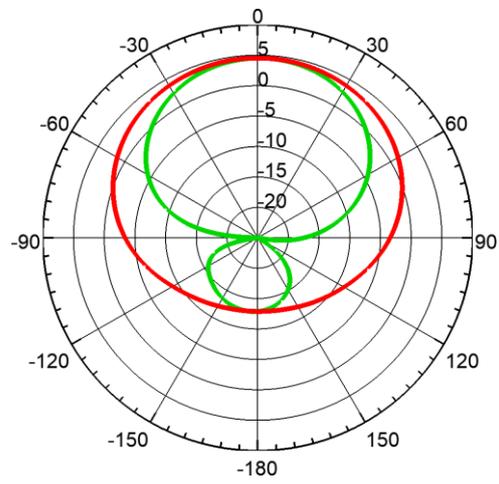
Radiation pattern (total realized gain)



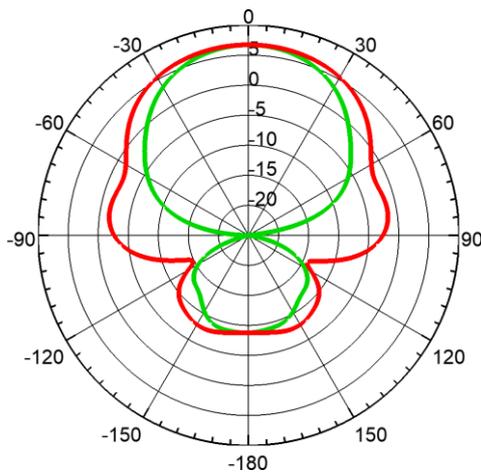
Phi=0°, plane XZ, green curve
Phi=90°, plane YZ, red curve



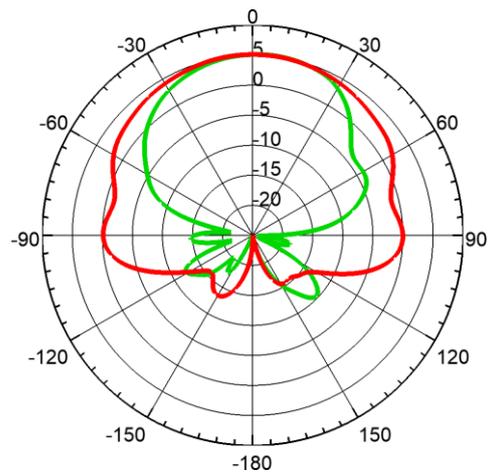
f = 750 MHz



f = 1000 MHz



f = 2000 MHz

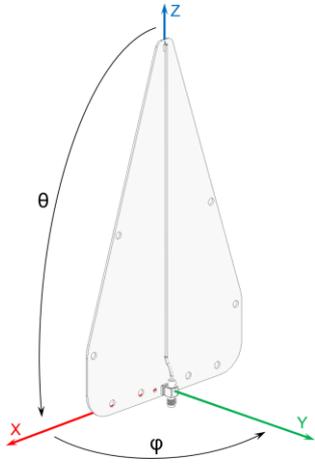


f = 3000 MHz

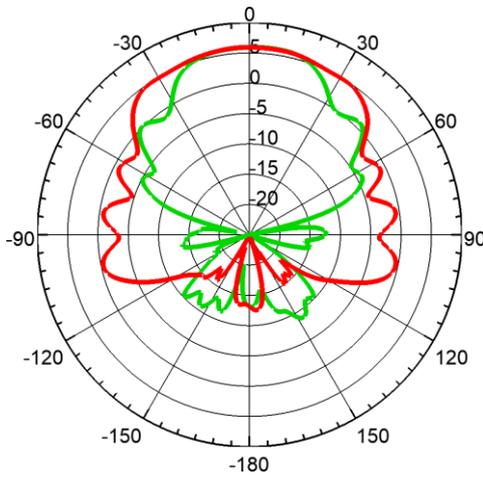
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750 MHz / 9000 MHz UWB log-periodic antenna

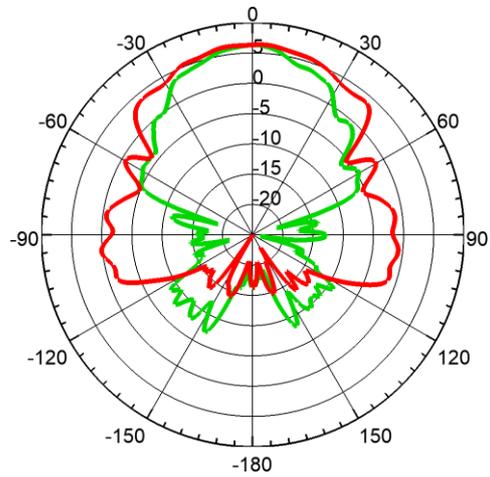
Radiation pattern (total realized gain)



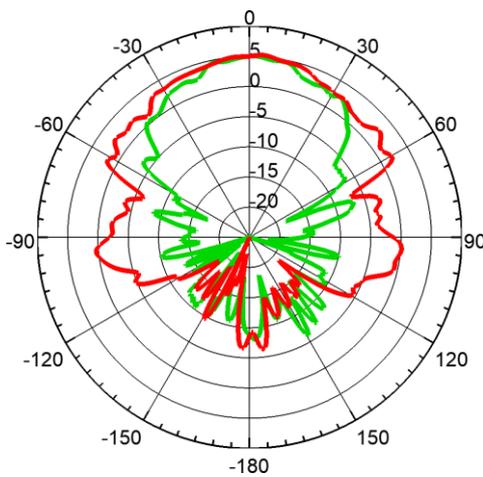
Phi=0°, plane XZ, green curve
Phi=90°, plane YZ, red curve



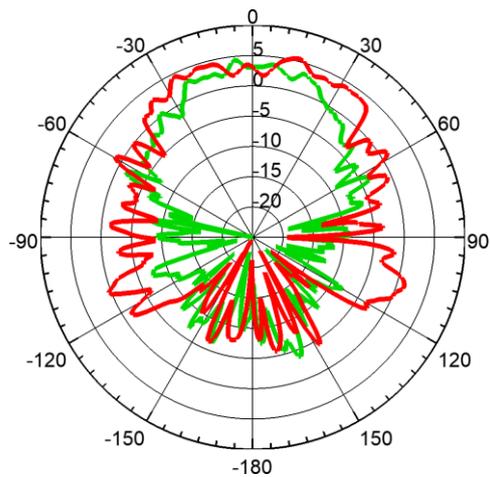
f = 4500 MHz



f = 6000 MHz



f = 7500 MHz



f = 9000 MHz

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