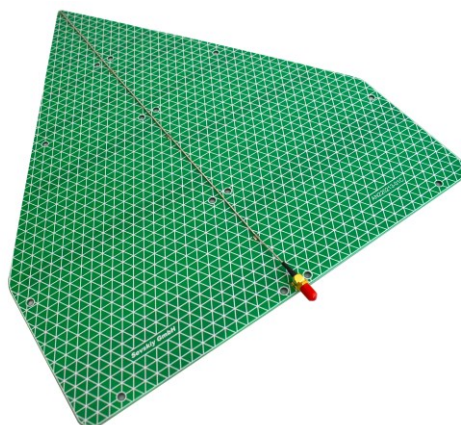


370...6000 MHz Ultra-wideband log-periodic antenna



General information

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

Typical applications

ISM, RFID, IoT (Sigfox, LoRa), LP-WAN, Smart meters, LTE, 5G, GNSS

Electrical data

Antenna type	Log-periodic antenna
5G bands	1 - 3, 5, 7, 8, 12 - 14, 18, 20, 25, 26, 28 - 30, 34, 38 - 41, 46 - 48, 50 - 53, 65, 66, 70, 71, 74 - 84, 86, 89 - 98
4G bands	1 - 14, 17 - 53, 65 - 76, 85, 87, 88
Frequency range [MHz]	370...6000
Return loss [dB]	-10
Peak gain [dBi]	4.5...5
Radiation efficiency [%]	65...80
Nominal input impedance [Ohm]	50
Polarization	linear
Radiation pattern	directional
Maximum input power [W]	5

Mechanical data

Antenna dimensions [mm]	380 x 330 x 1.6
Connector type ¹⁾	SMA female
Cable type and thickness [mm]	RG178, 2.5
Weight [g]	278

Environmental data

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

Additional information

¹⁾ Other connector types can be offered on request.

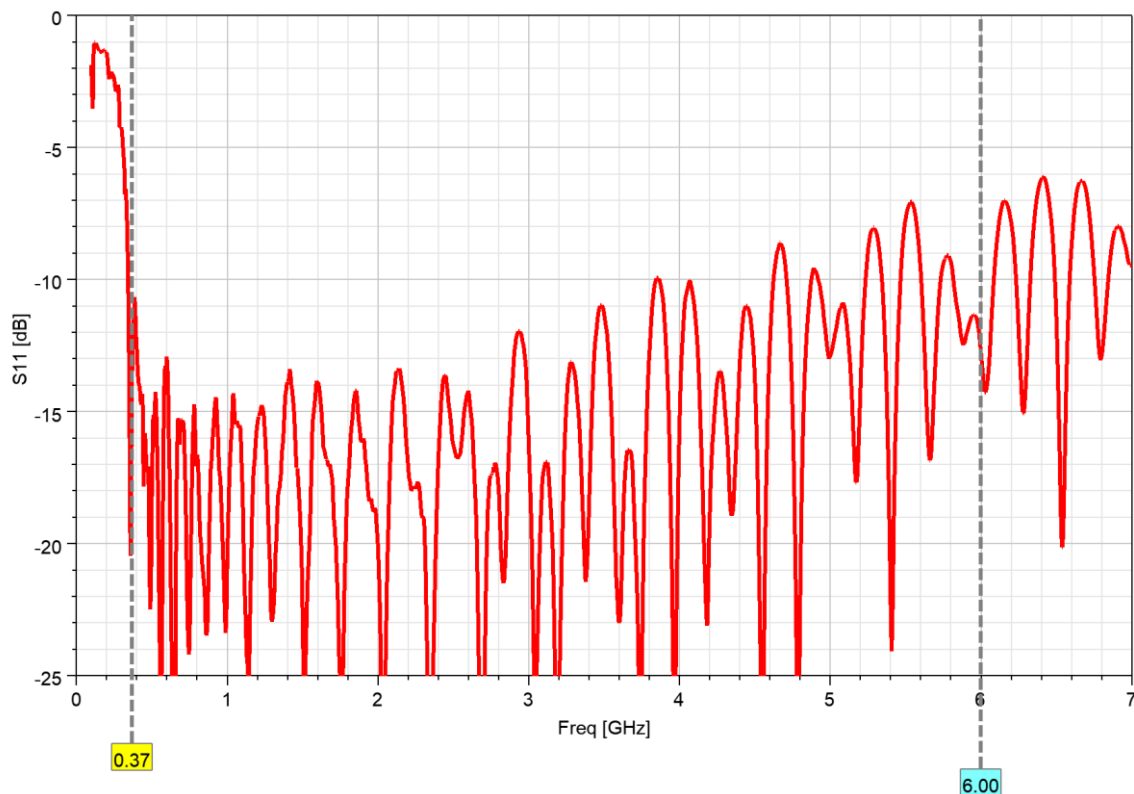
Other mechanical designs, materials or frequency bands are possible on request.

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

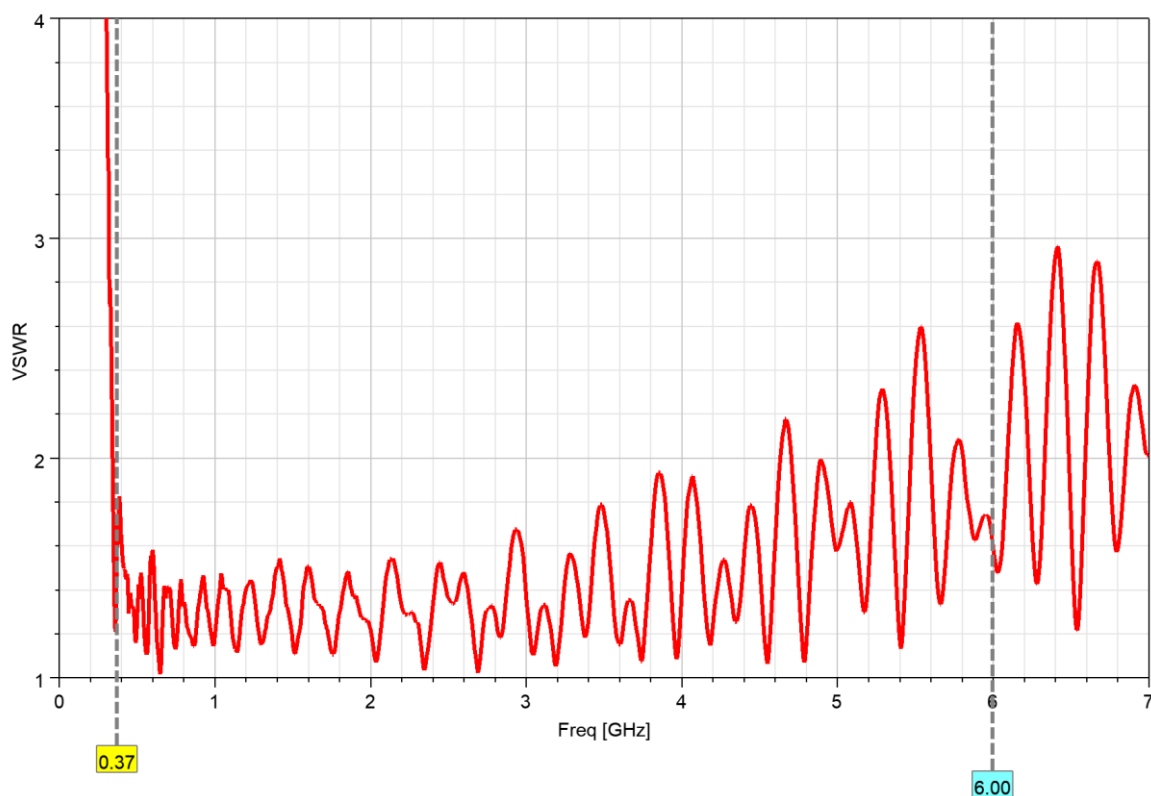
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370...6000 MHz Ultra-wideband log-periodic antenna

Measured input impedance matching



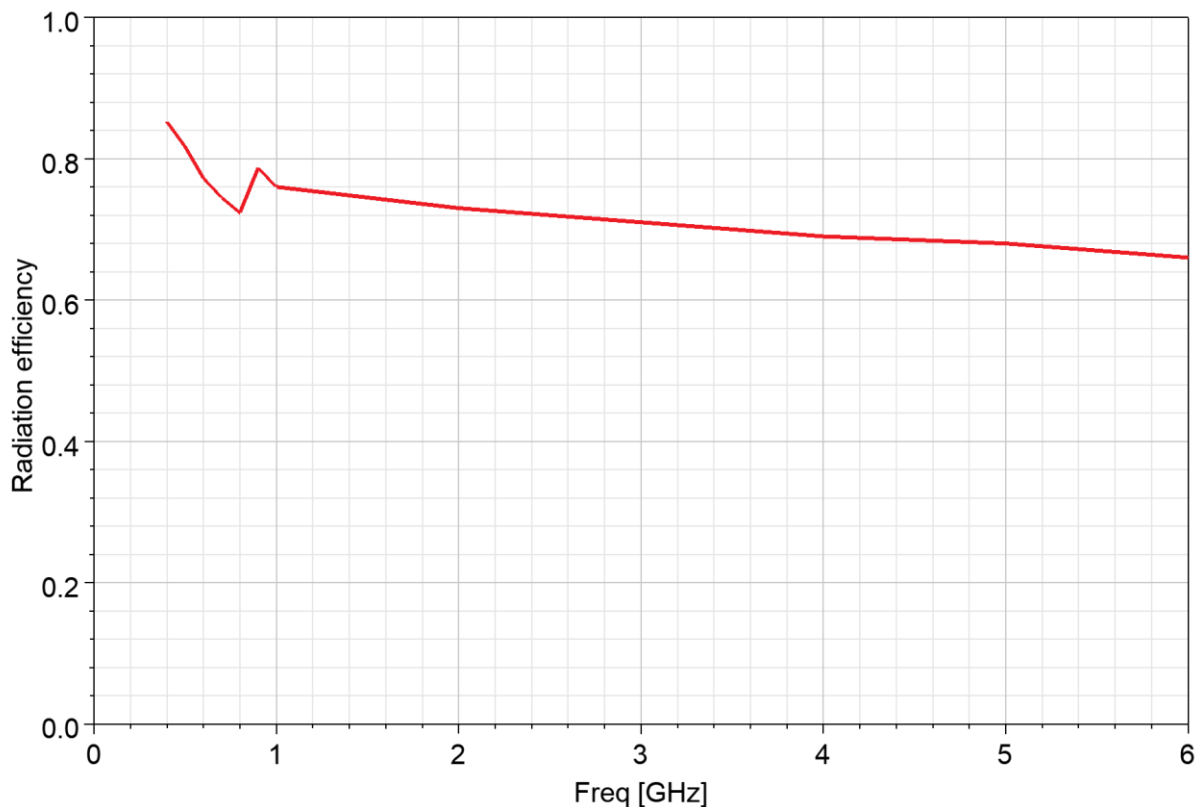
VSWR



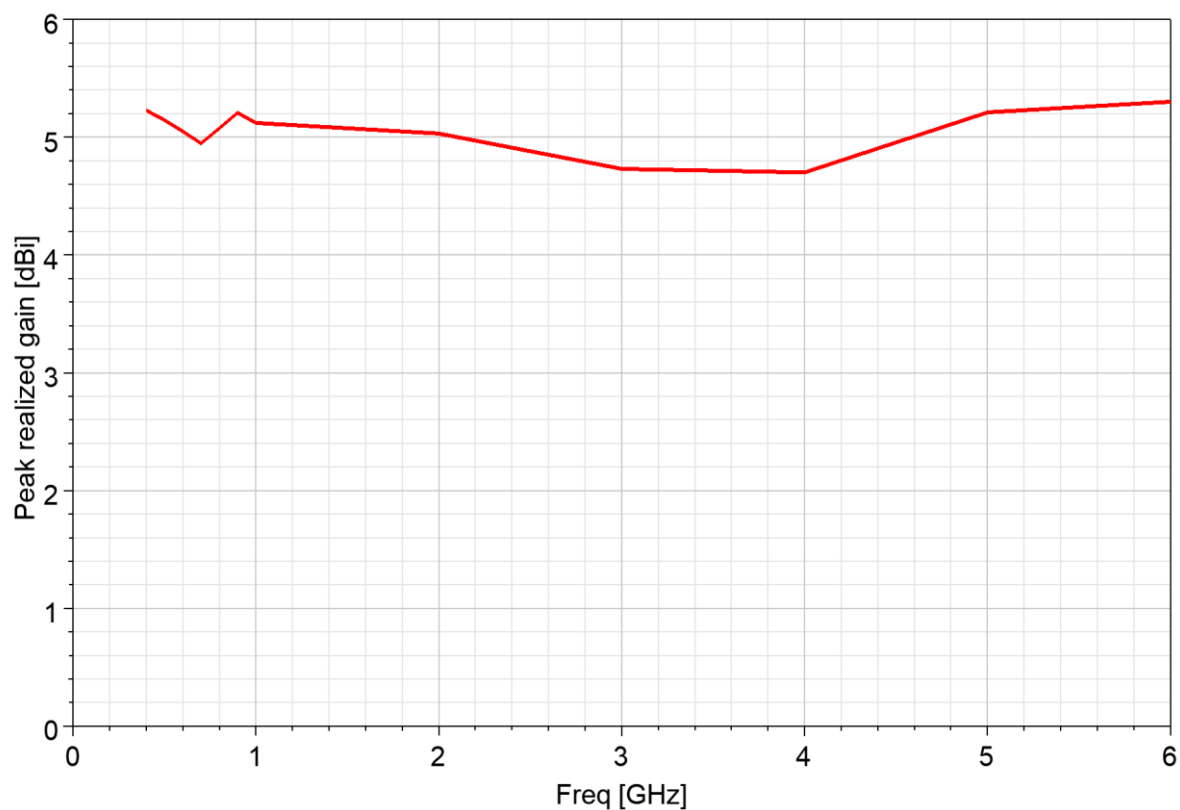
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Radiation efficiency



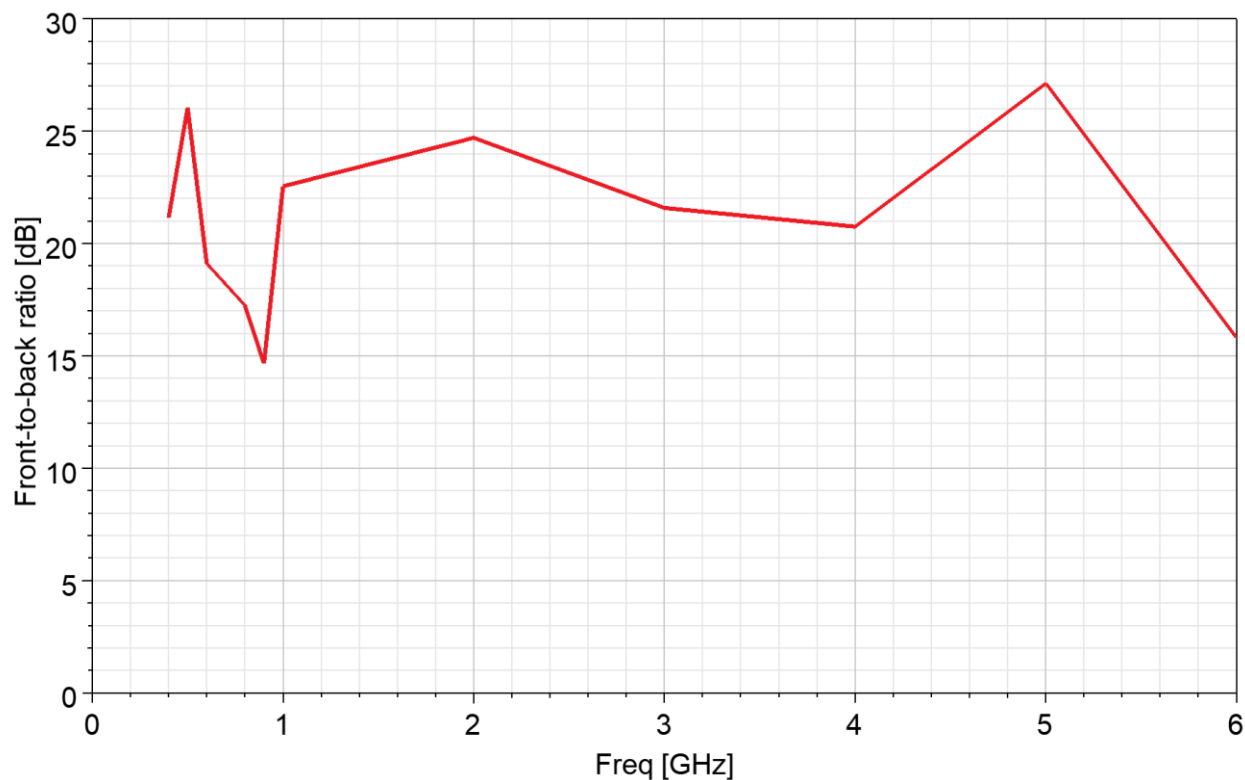
Peak realized gain



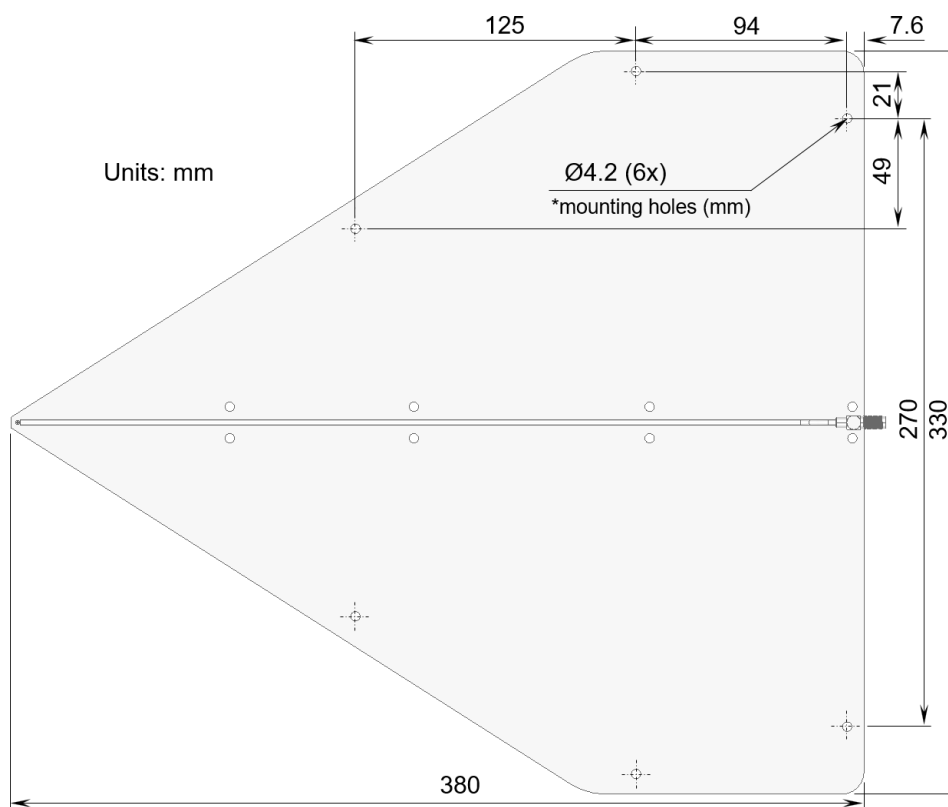
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Front-to-back ratio



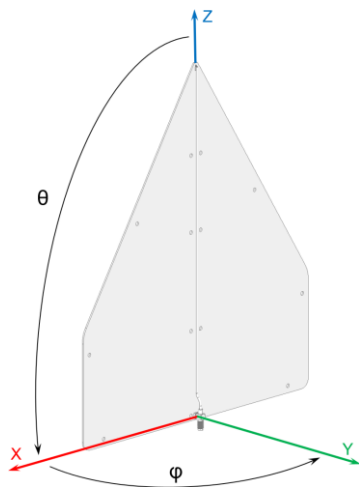
Product dimensions



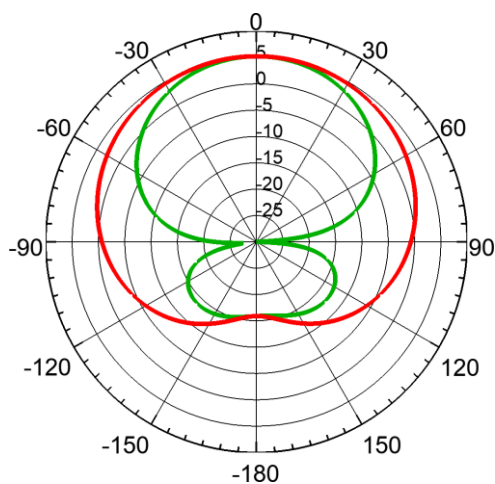
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370...6000 MHz Ultra-wideband log-periodic antenna

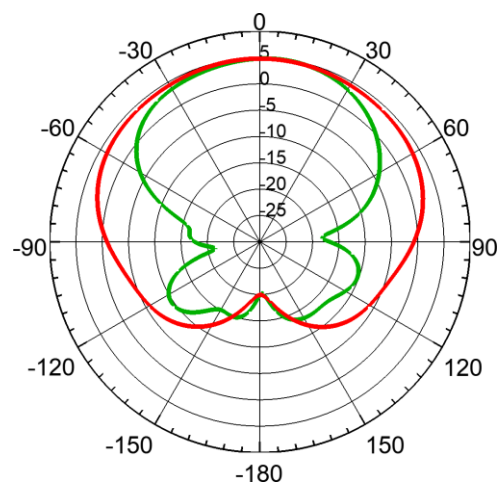
Radiation pattern (total realized gain)



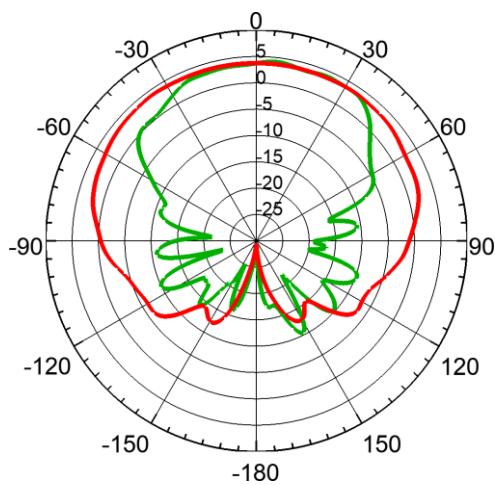
Phi=0°, plane XZ, green curve
Phi=90°, plane YZ, red curve



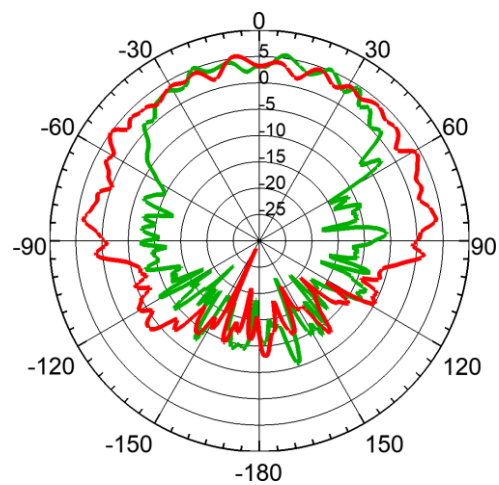
f = 400 MHz



f = 1000 MHz



f = 3000 MHz



f = 6000 MHz

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