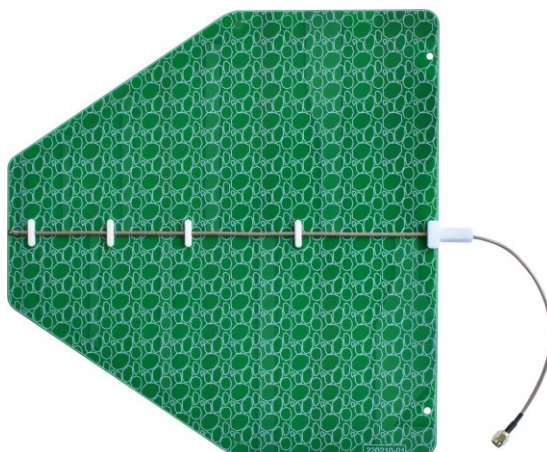


**370 MHz / 1000 MHz Wideband log-periodic antenna**



**General information**

Planar 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, drone control

**Electrical data**

Antenna type	Log-periodic antenna
5G bands	5, 8, 12 - 14, 18, 20, 26, 28, 29, 71, 81 - 83, 89
4G bands	5, 6, 8, 12 - 14, 17 - 20, 26 - 29, 31, 44, 67, 68, 71 - 73, 85 - 88
Frequency range [MHz]	370...1000
Return loss [dB]	-10
Peak gain [dBi]	4.5...5
Radiation efficiency [%]	70...80
Nominal input impedance [Ohm]	50
Polarization	linear
Radiation pattern	directional
Maximum input power [W]	5

**Mechanical data**

Antenna dimensions [mm]	287 x 296 x 1.6
Connector type <sup>1)</sup>	SMA male
Cable type and thickness [mm]	RG178, 2.5
Weight [g]	240

**Environmental data**

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

**Additional information**

<sup>1)</sup> Other connector types can be offered on request.

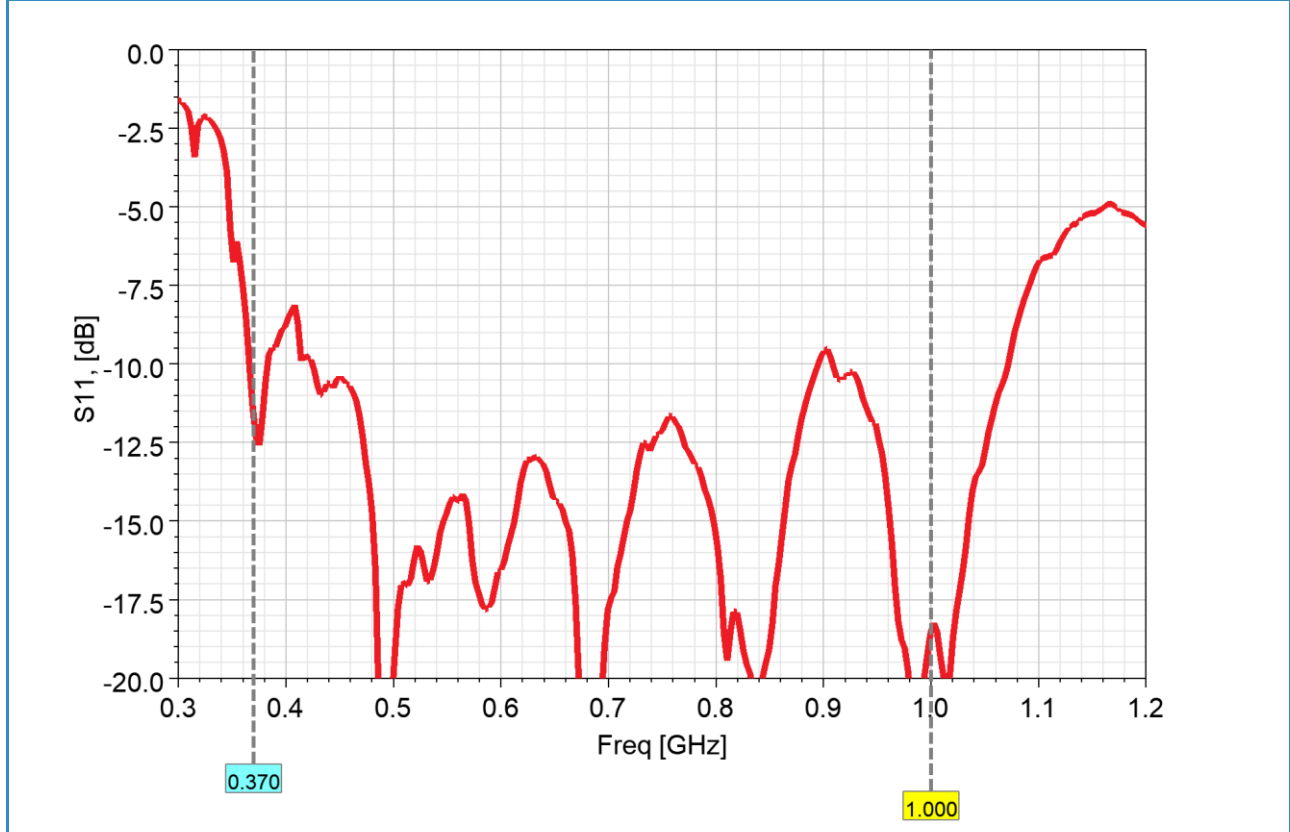
Other mechanical designs, materials or frequency bands are possible on request.

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

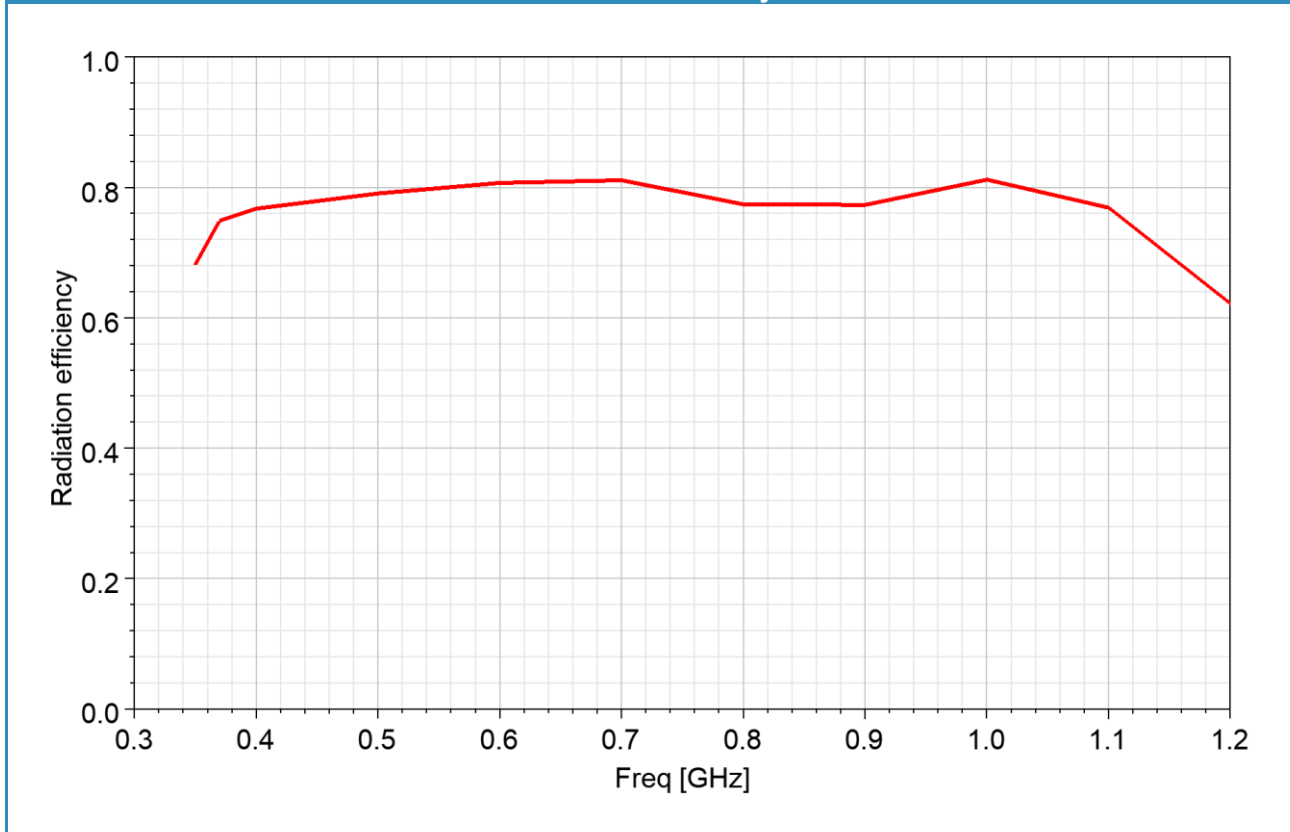
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370 MHz / 1000 MHz Wideband log-periodic antenna

Measured input impedance matching



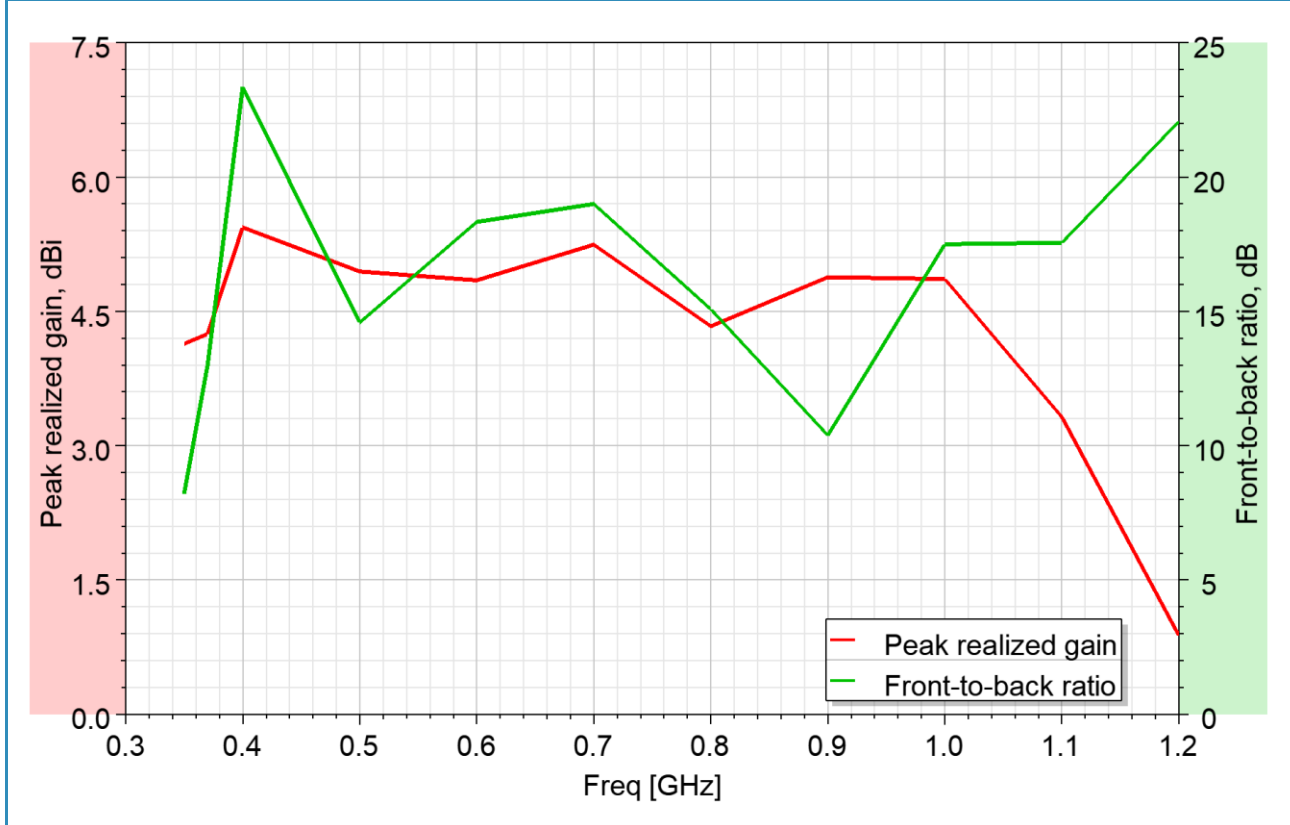
Radiation efficiency



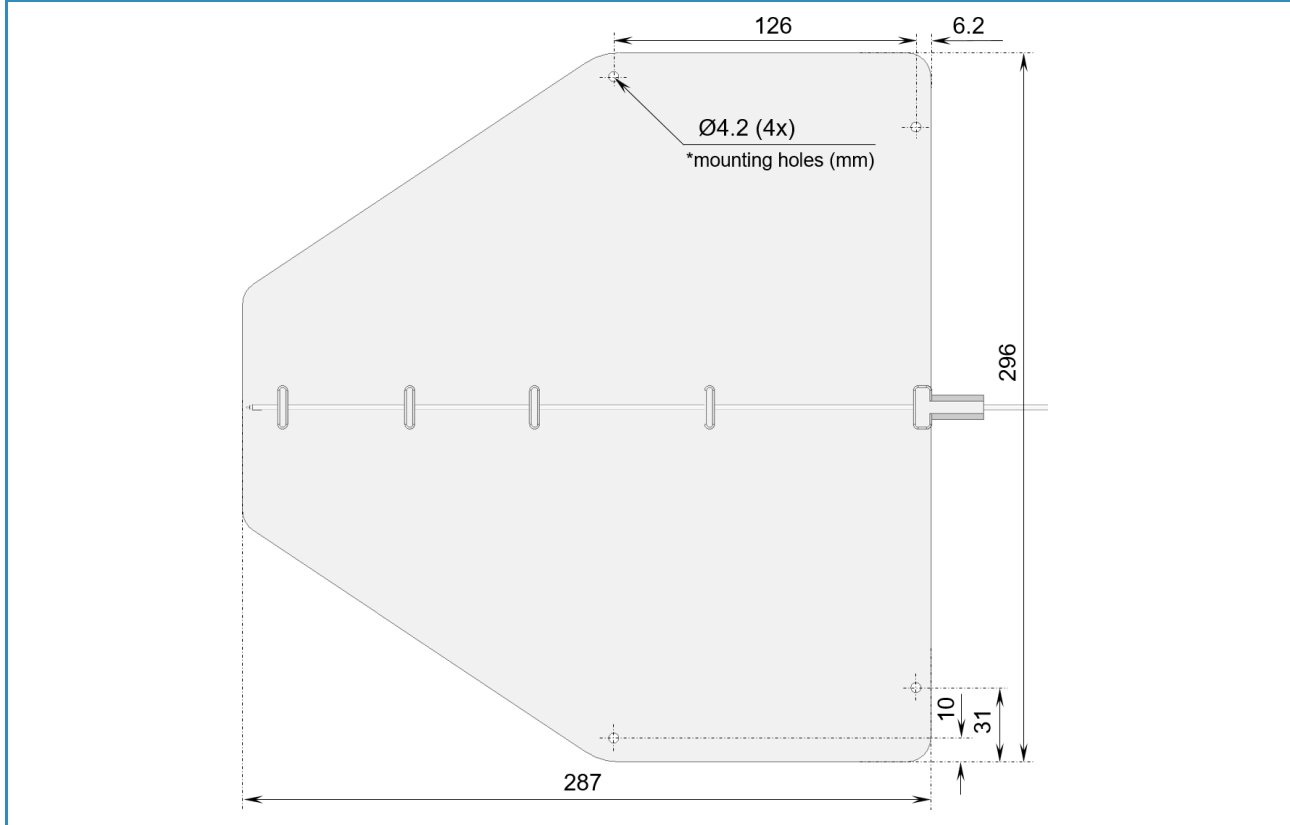
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**370 MHz / 1000 MHz Wideband log-periodic antenna**

**Peak realized gain and front-to-back ratio**



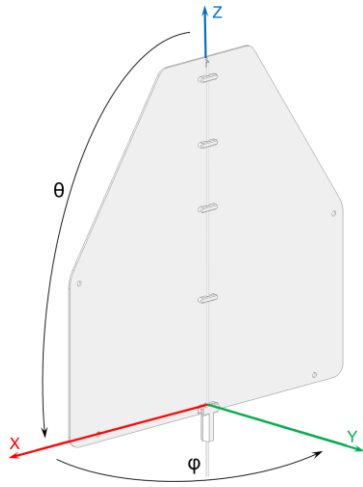
**Product dimensions**



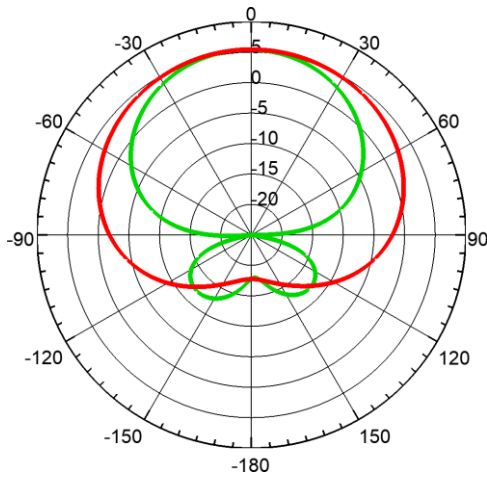
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**370 MHz / 1000 MHz Wideband log-periodic antenna**

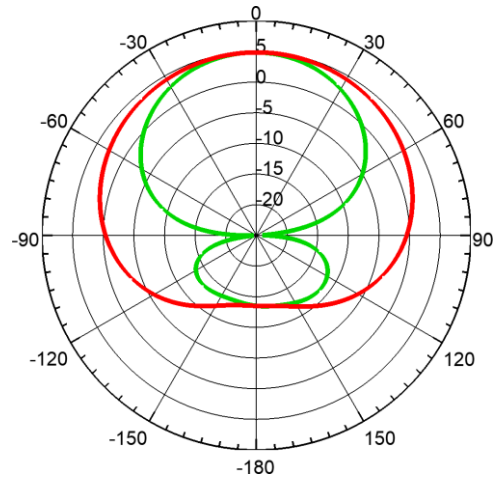
**Radiation pattern (total realized gain)**



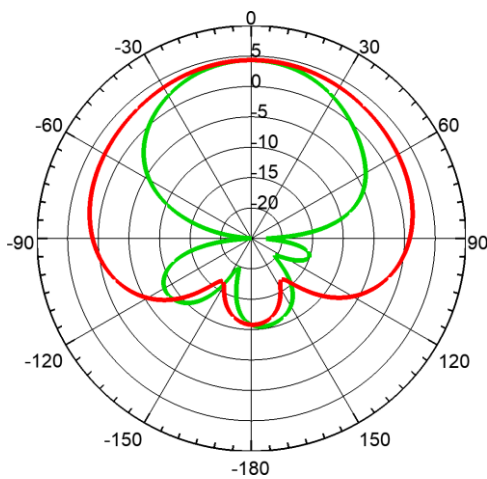
Phi=0°, plane XZ, green curve  
Phi=90°, plane YZ, red curve



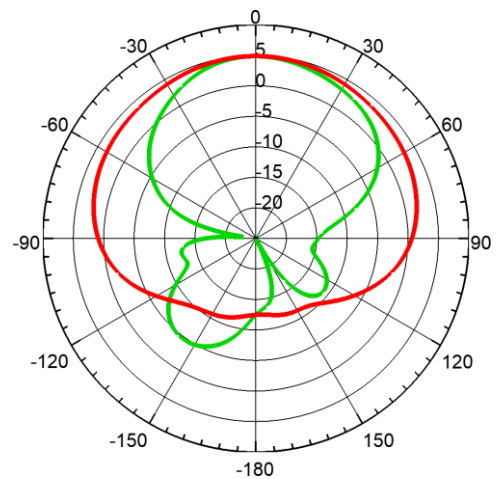
f = 400 MHz



f = 600 MHz



f = 800 MHz



f = 1000 MHz

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