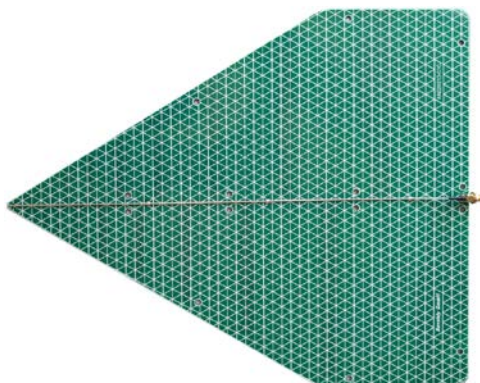


370...6000 MHz Ultra-wideband log-periodic antenna (5G, LTE, ISM, IoT, UMTS, GSM, UWB)



General information

The AN220213-01C is a planar ultra-wideband log-periodic PCB antenna designed for directional operation over a wide frequency range from 370 MHz to 6 GHz. Its log-periodic architecture ensures stable impedance matching and consistent radiation characteristics across a wide multi-octave frequency range, making it suitable for broadband wireless and monitoring applications.

The antenna supports a wide variety of wireless technologies, including LTE, GSM, UMTS, ISM-band systems, IoT connectivity, UWB communications, and sub-6 GHz 5G services. The broad frequency coverage also enables use in spectrum monitoring, RF surveillance, and experimental wideband communication platforms operating in the VHF, UHF, and microwave bands.

Featuring linear polarization and a directional radiation pattern, the antenna provides improved link budget, enhanced interference rejection, and controlled spatial coverage. Typical applications include laboratory measurements, EMC/EMI testing, spectrum analysis equipment, telemetry and remote sensing systems, wireless test benches, and research and development environments.

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...5.5
Radiation efficiency [%]	50...85
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 male
Cable type and thickness [mm]	RG316, 2.5
Weight [g]	278

Additional information

¹⁾ Other connector types can be offered on request.

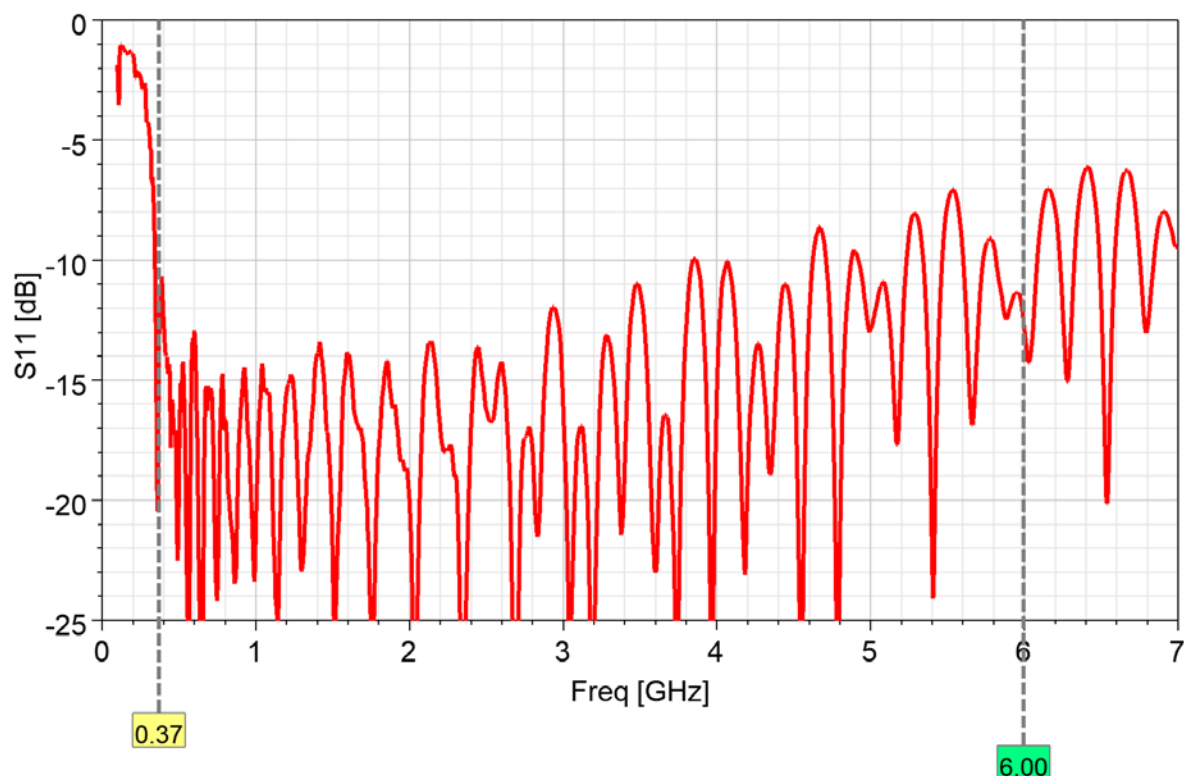
Other mechanical designs, materials or frequency bands are possible on request.

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

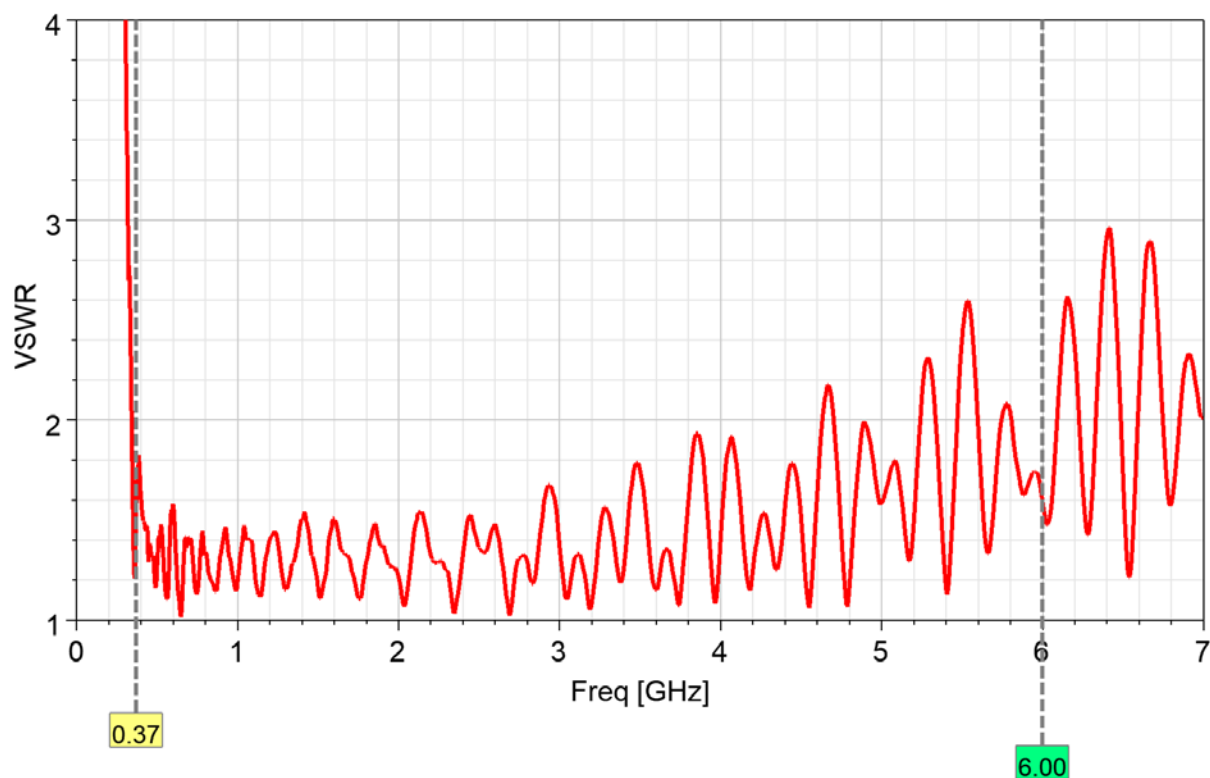
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Measured input impedance matching



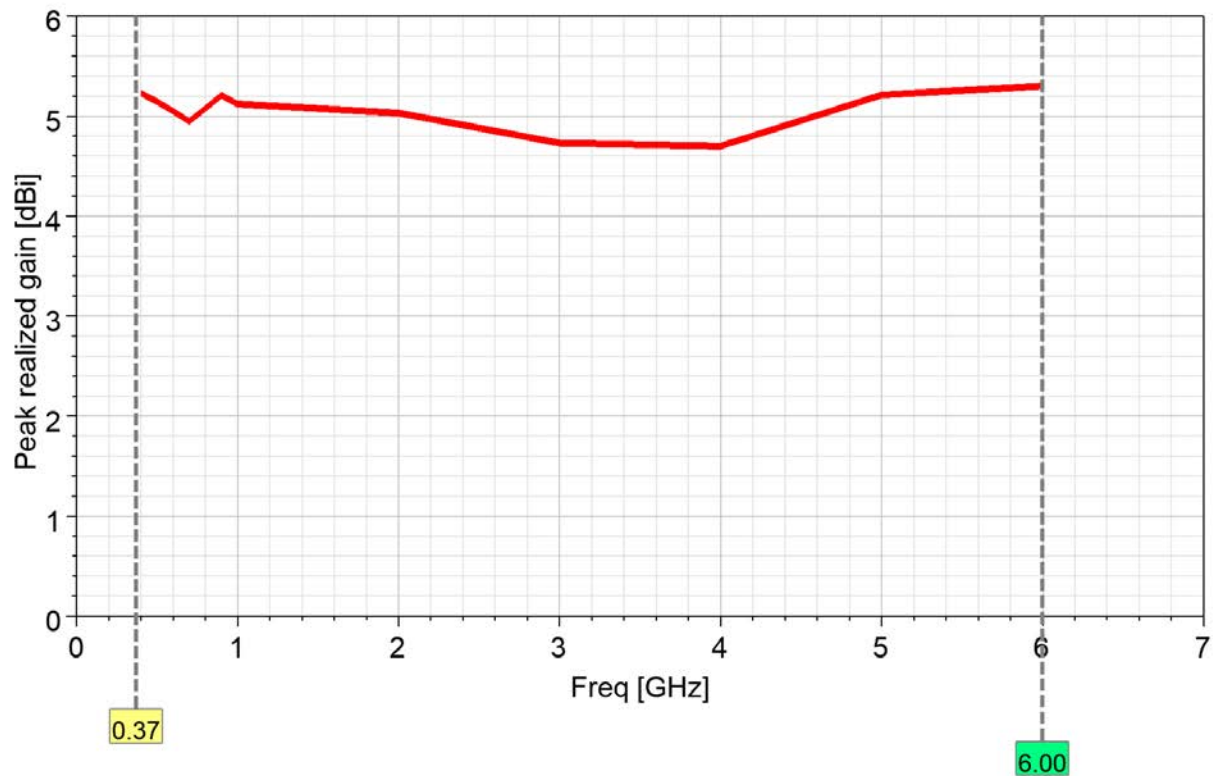
VSWR



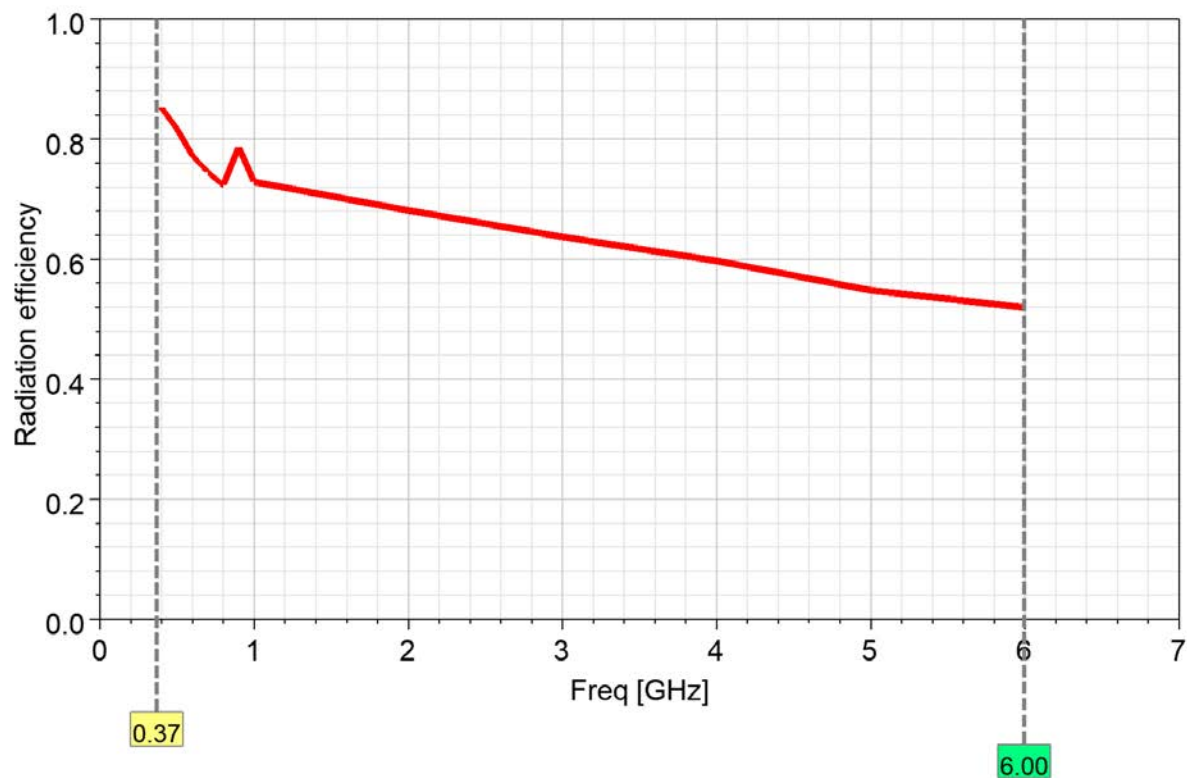
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Peak realized gain



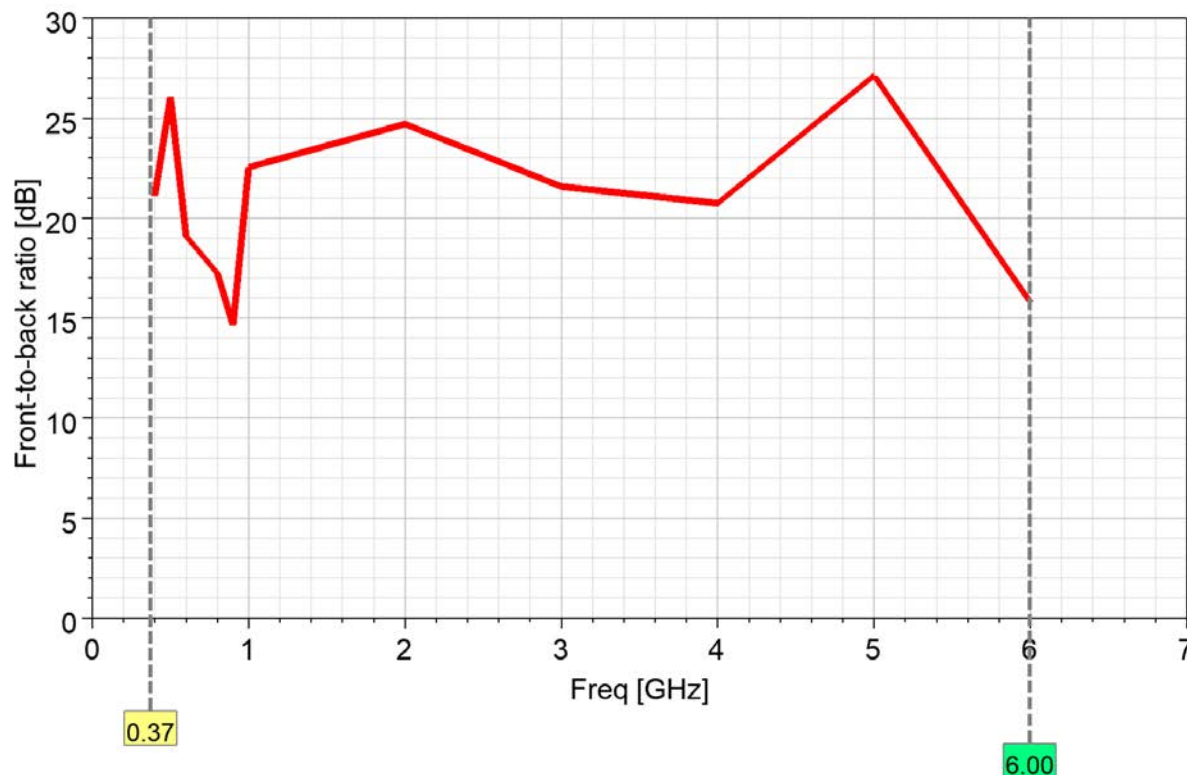
Radiation efficiency



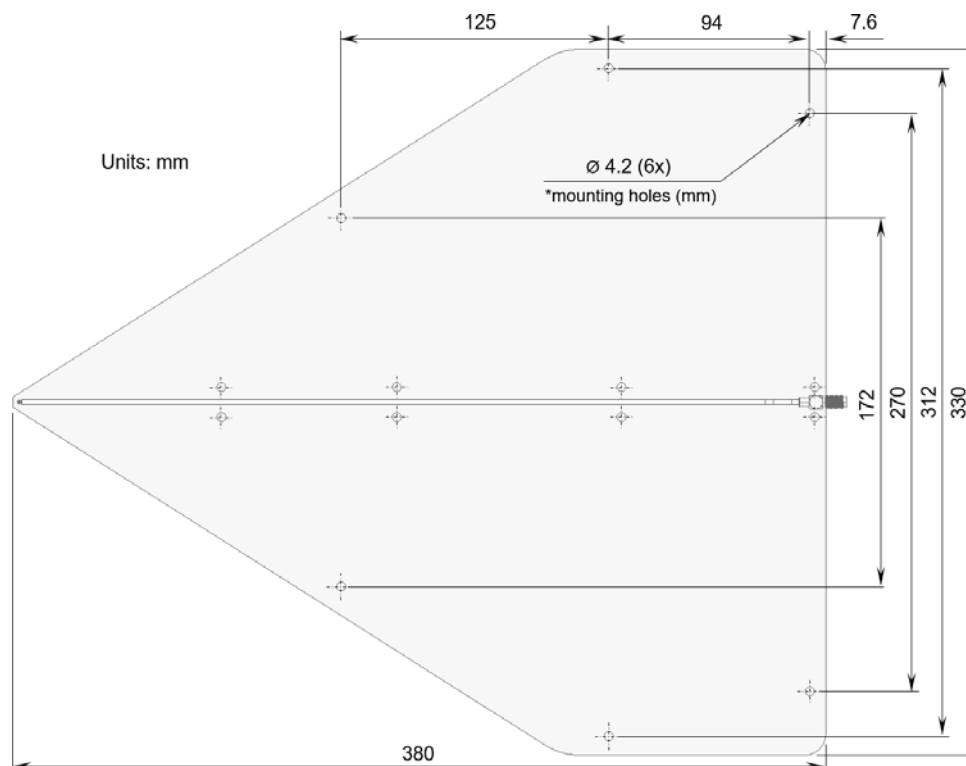
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Front-to-back ratio



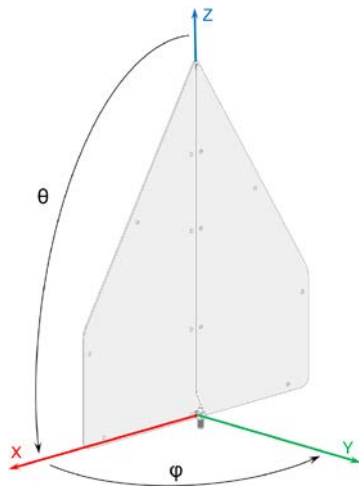
Product dimensions



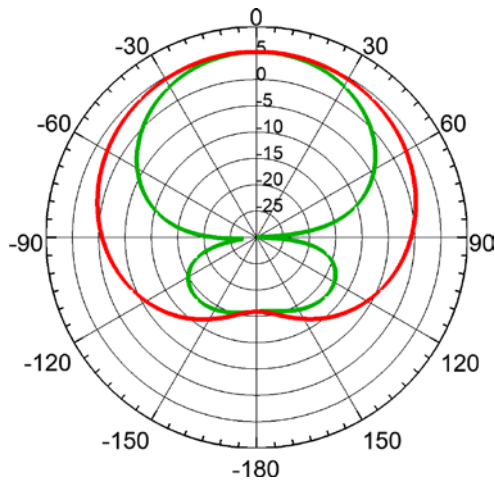
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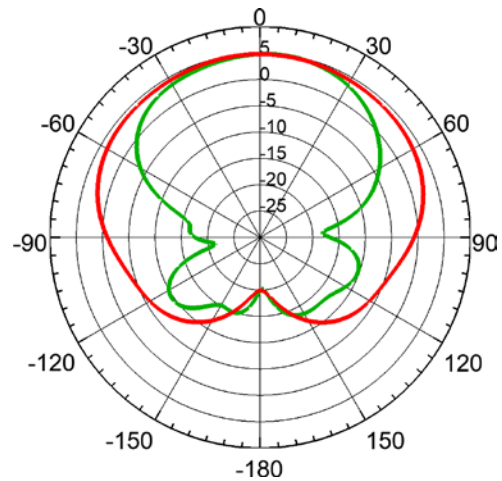
Radiation pattern



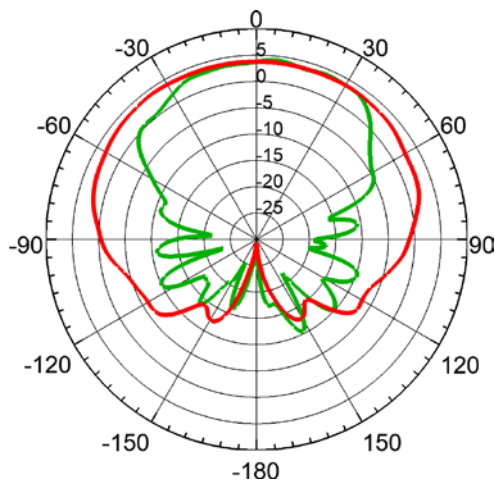
Total realized gain [dBi]
Phi=0°, plane XZ, green curve
Phi=90°, plane YZ, red curve



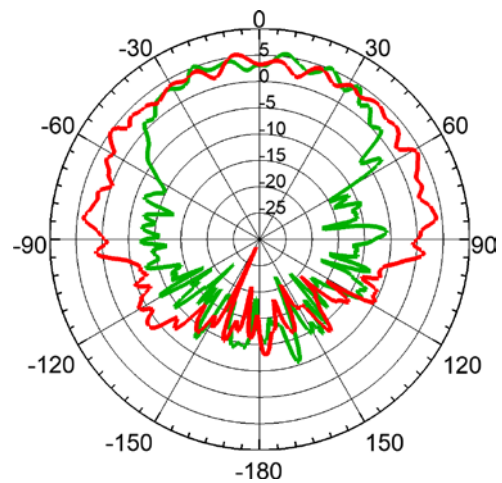
400 MHz



1000 MHz



3000 MHz



6000 MHz

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