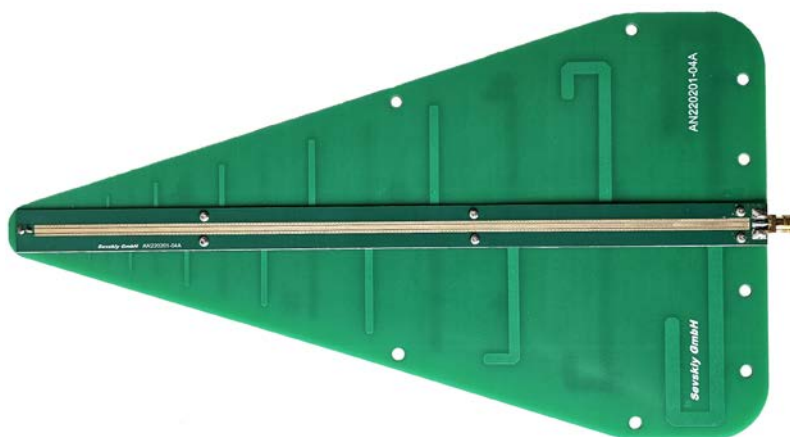


750...8000 MHz UWB log-periodic antenna (5G, LTE, ISM, UMTS, GSM, UWB)

General information

The AN220201-04A is a planar ultra-wideband log-periodic antenna designed to provide stable directional performance over a very wide frequency range from 750 to 8000 MHz. The antenna supports multiple wireless standards and services, LTE, GSM, UMTS, ISM, UWB, and sub-6 GHz 5G, making it suitable for modern broadband communication and measurement applications.

The log-periodic architecture provides broadband impedance matching and predictable radiation behavior across the entire operating band. Its directional radiation pattern enhances signal discrimination, reduces susceptibility to unwanted interference, and supports reliable operation in dense and challenging RF environments. Typical applications include spectrum monitoring systems, RF measurement and calibration equipment, EMC/EMI testing, laboratory instrumentation, wireless communication testing, industrial RF diagnostics, research and development platforms, as well as UAV communication and control applications. The planar PCB construction with an SMA connector allows straightforward integration into test setups, monitoring devices, and compact RF systems.

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]	750...2000	2000...8000
Return loss [dB]	-10	-10
Peak gain [dBi]	2.5...6	4...6
Radiation efficiency [%]	70...75	65...70
Nominal input impedance [Ohm]	50	
Polarization	linear	
Radiation pattern	directional	
Maximum input power [W]	5	

Mechanical data

Antenna dimensions [mm]	265 x 150 x 1.6
Connector type ¹⁾	SMA Female ¹⁾
Material	FR-4, PTFE Teflon
Weight [g]	90

Additional information

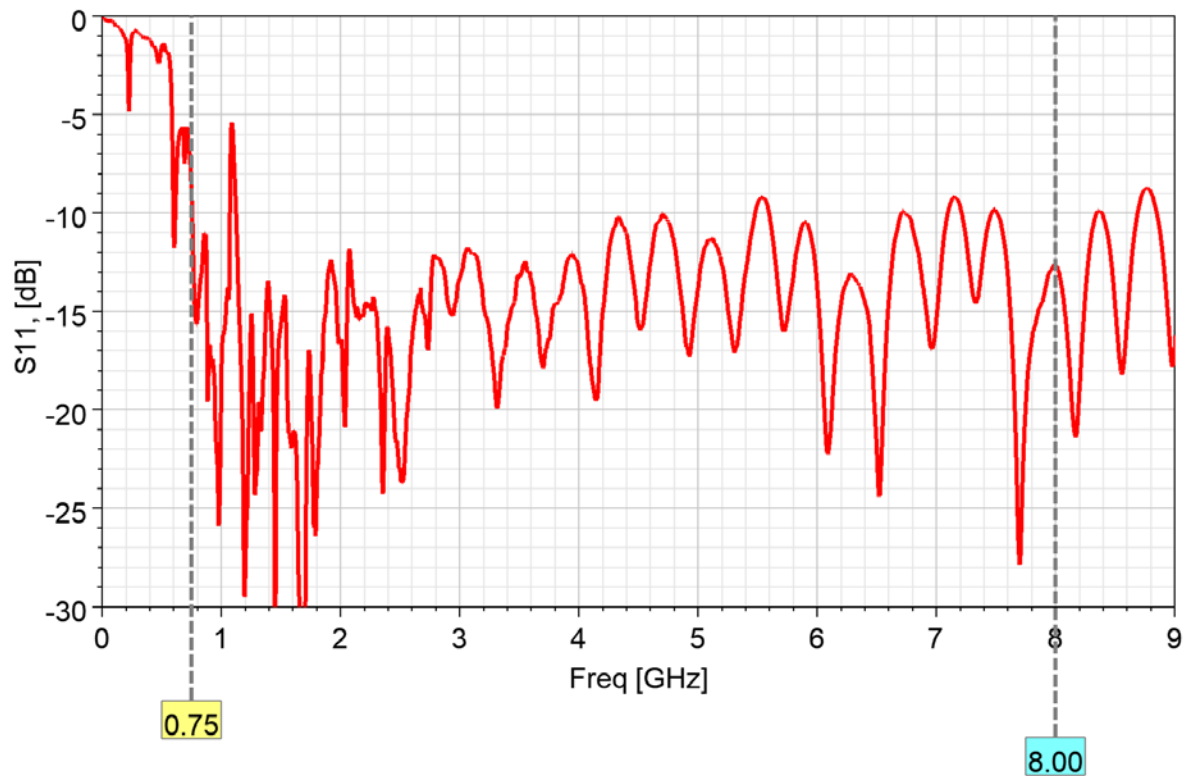
¹⁾ Other connector types can be offered on request.

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

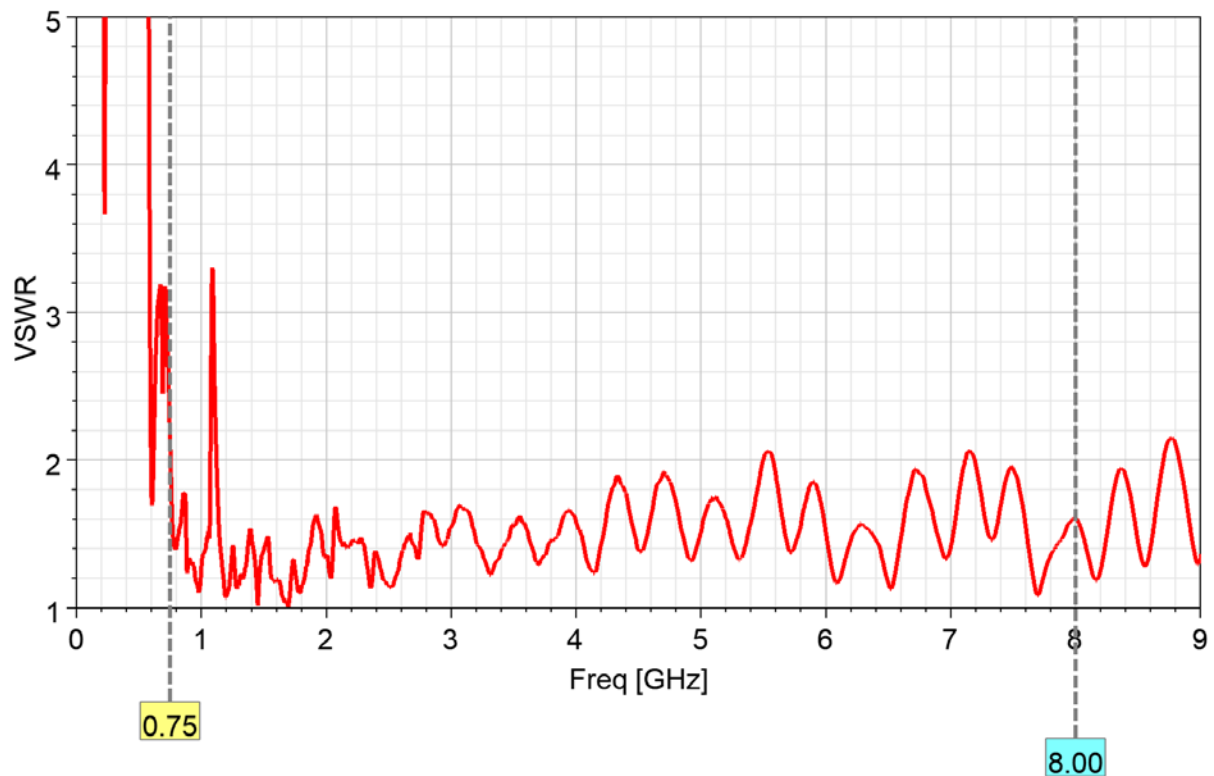
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Measured input impedance matching



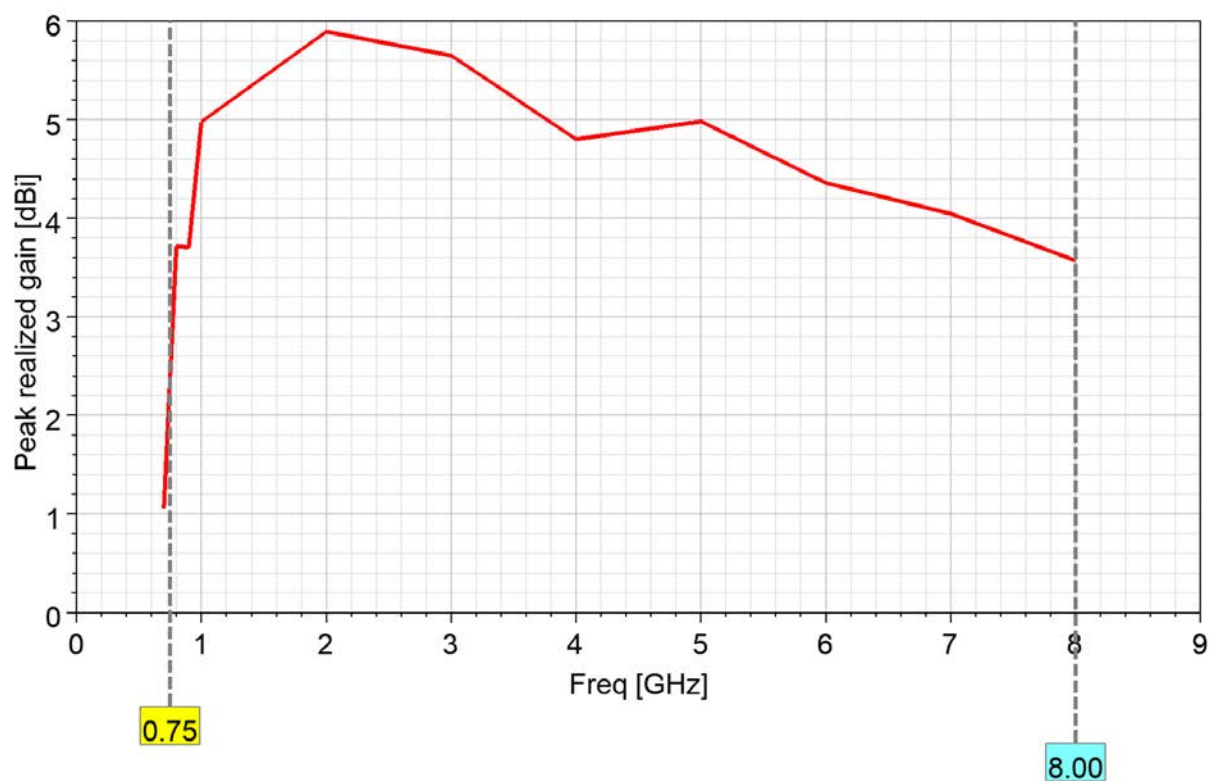
VSWR



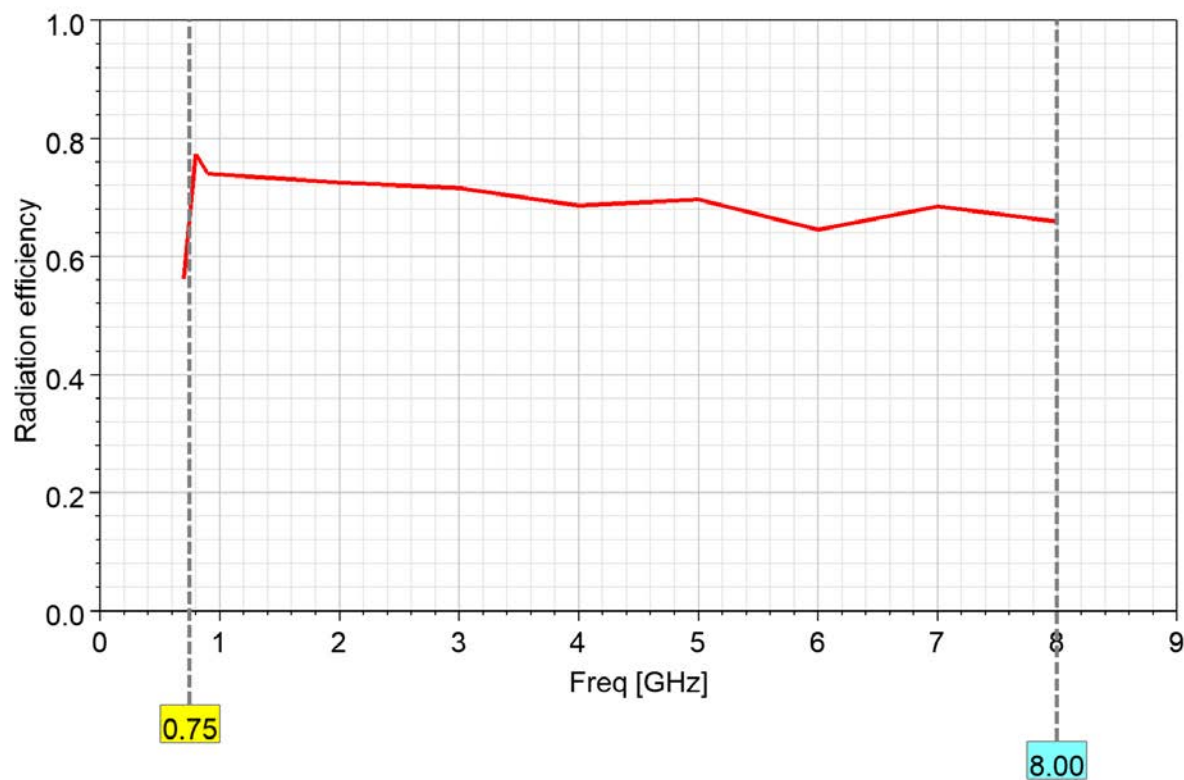
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Peak realized gain



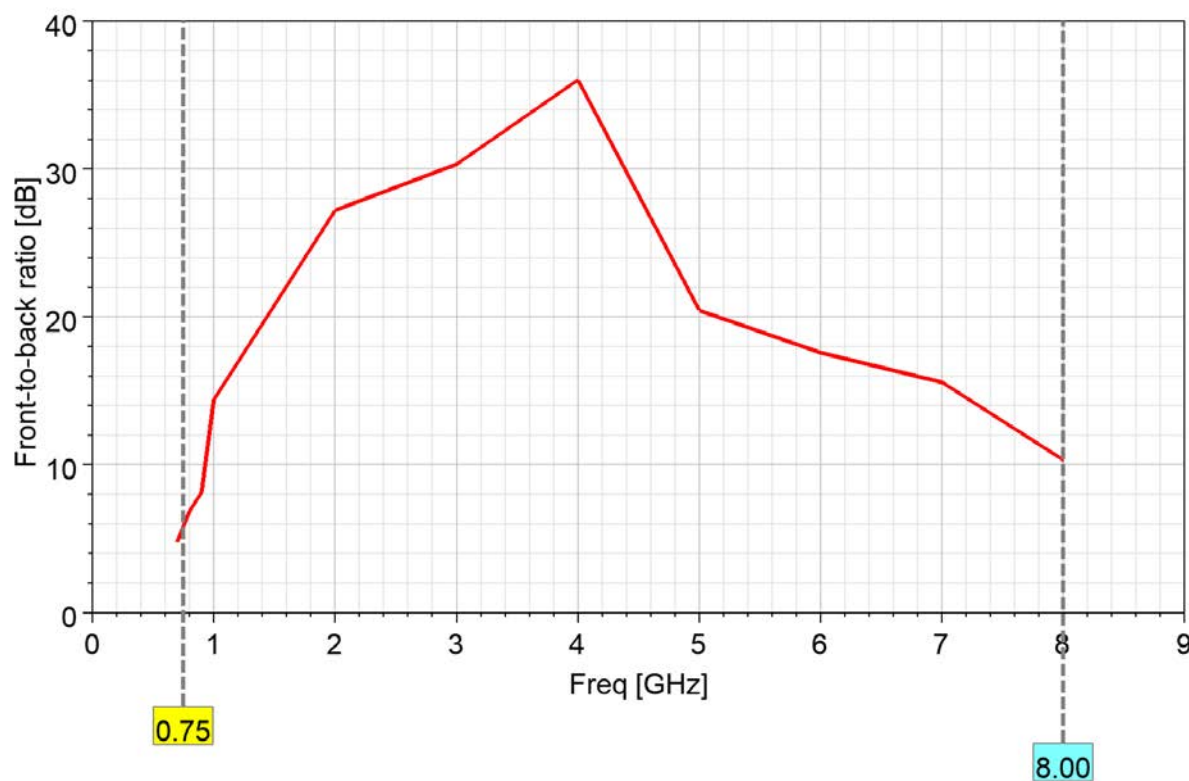
Radiation efficiency



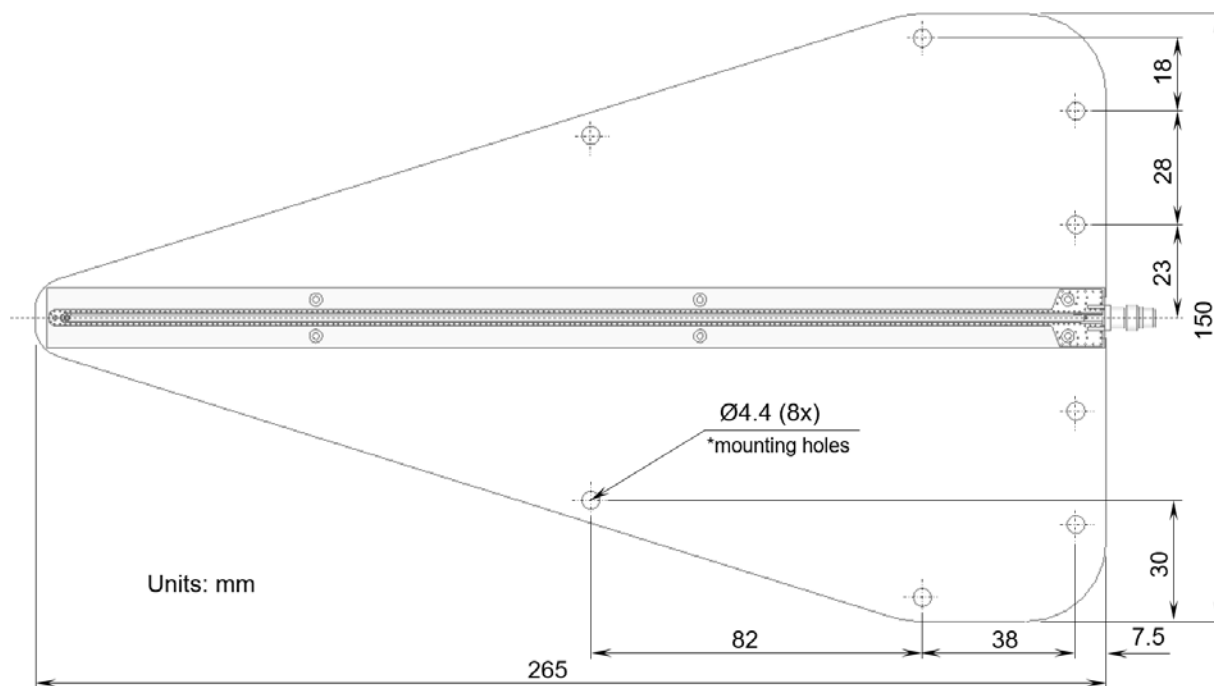
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Front-to-back ratio



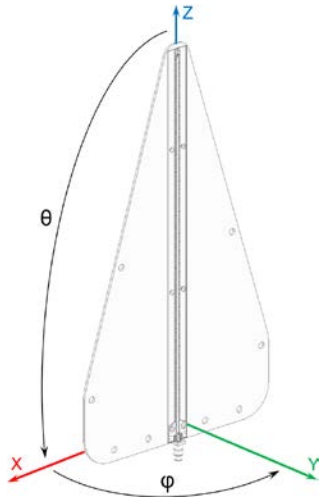
Product dimensions



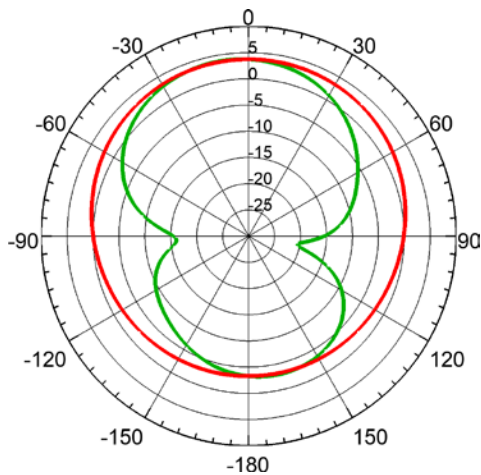
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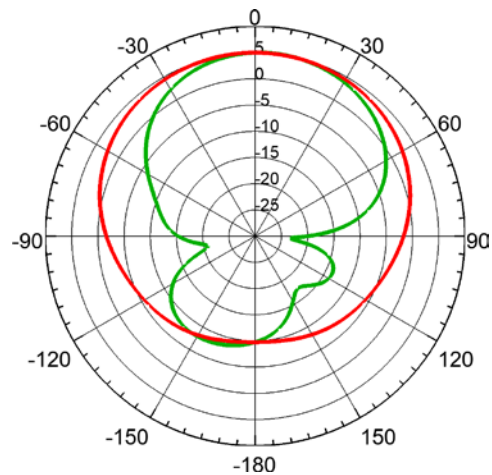
Radiation pattern



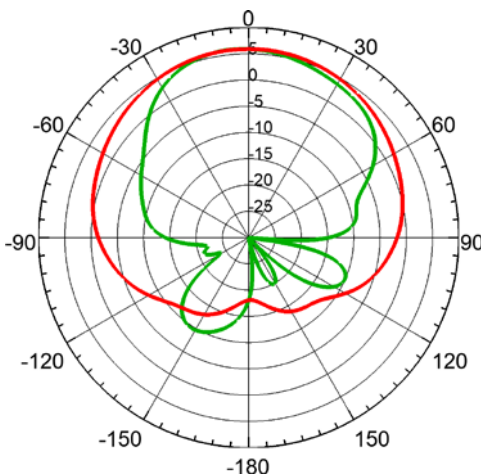
Total realized gain [dBi]
Phi=0°, plane XZ, green curve
Phi=90°, plane YZ, red curve



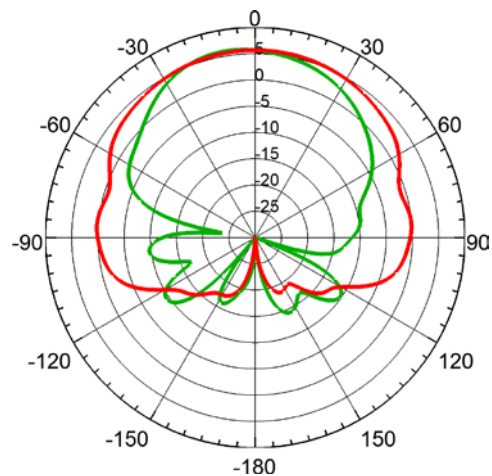
800 MHz



1000 MHz



2000 MHz

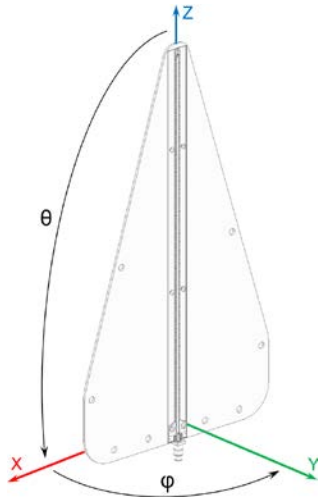


3000 MHz

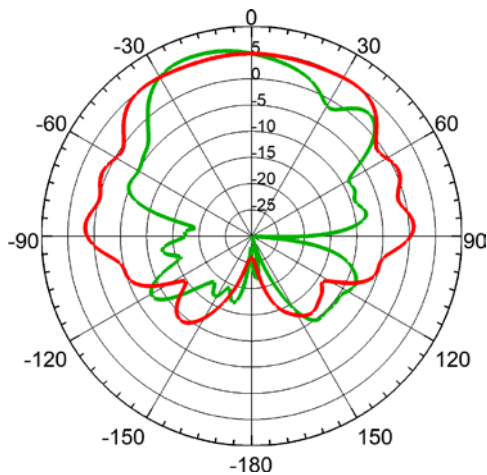
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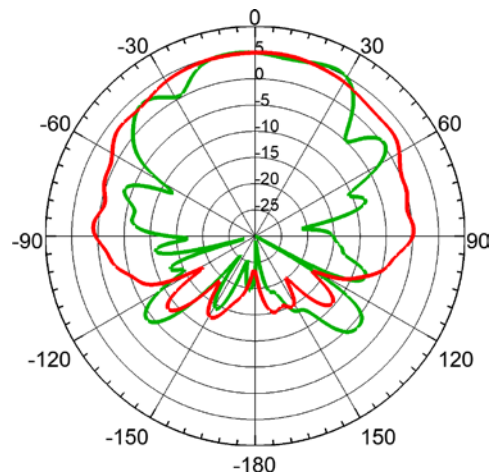
Radiation pattern



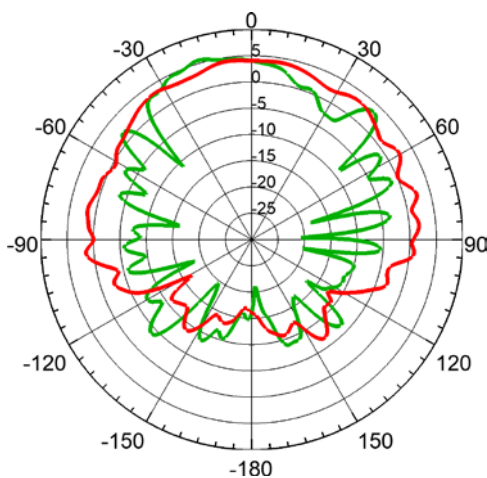
Total realized gain [dBi]
Phi=0°, plane XZ, green curve
Phi=90°, plane YZ, red curve



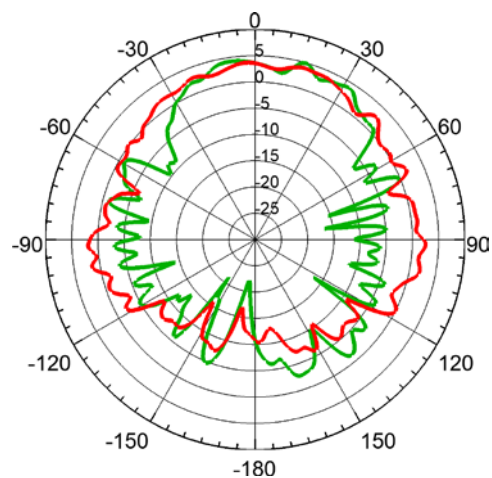
4000 MHz



5000 MHz



7000 MHz



8000 MHz

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