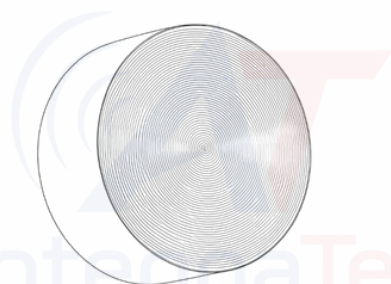


AT-S-1-18-S



AntennaTec
HIGH-PERFORMANCE ANTENNA SOLUTIONS

Please contact AntennaTec for a full interface control drawing.

1-18 GHz circularly polarized spiral antenna fitted with an SMA connector

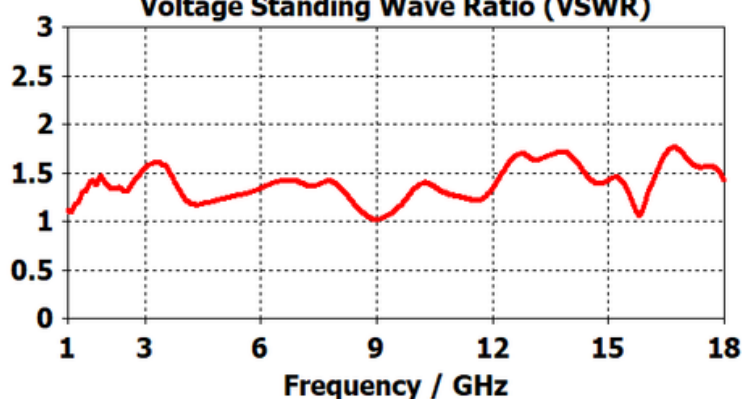
Key Specifications

Operating frequency band	1 - 18 GHz
Connector	SMA female
VSWR	< 2:1
3dB Beamwidth	60-100 degrees
Polarization	circular polarization
Size	height 75mm, dia 100mm
Axial Ratio	< 2dbi
Gain	-10 to 5 dBi

This ultra-wideband spiral antenna operates across 1–18 GHz frequency range and provides circularly polarised coverage for broadband RF monitoring and measurement applications. Its wide frequency span, compact circular aperture, and stable radiation behaviour make it suitable for spectrum monitoring, direction finding, RF testing, surveillance systems, telemetry links, UAV payloads, and broadband wireless reception where polarisation flexibility is required.

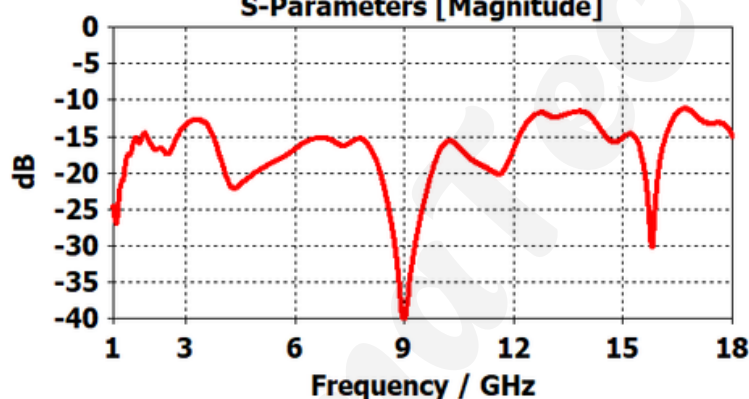
VSWR

Voltage Standing Wave Ratio (VSWR)



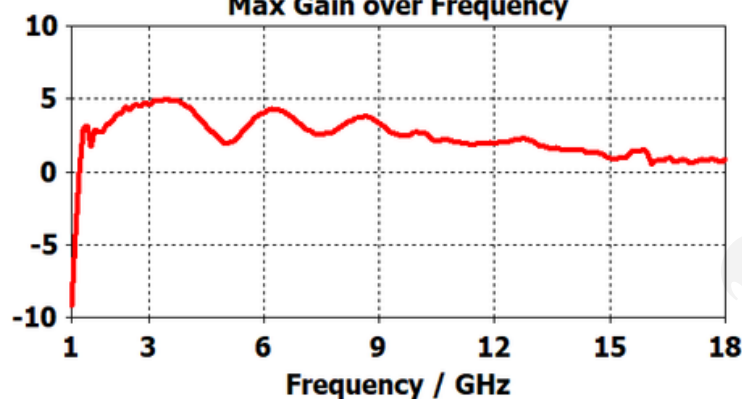
S11

S-Parameters [Magnitude]



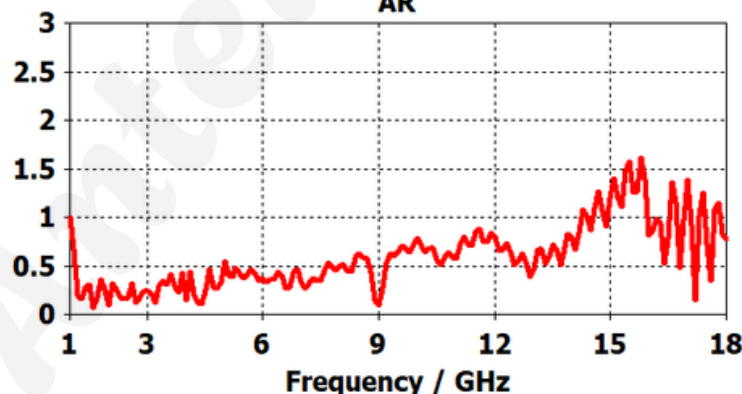
Gain

Max Gain over Frequency



Axial Ratio

AR

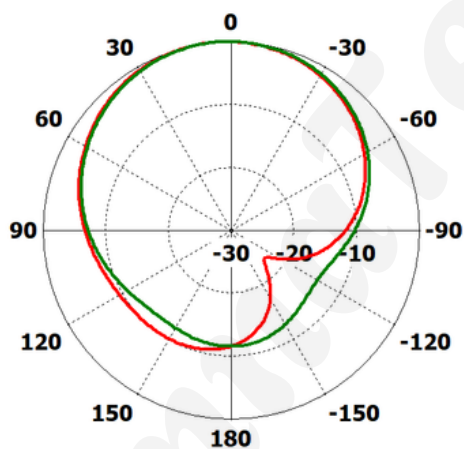


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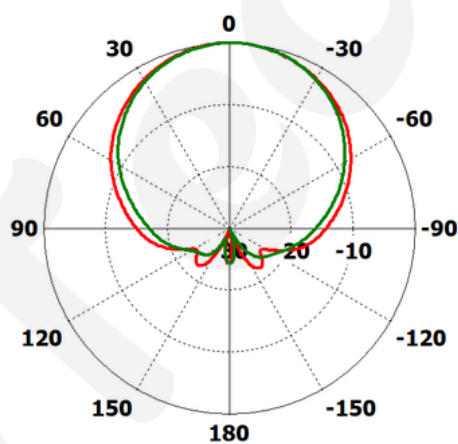


Radiation Patterns: Red = Phi 0; Green = Phi 90

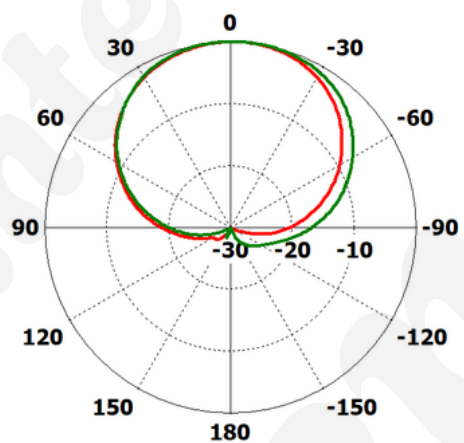
1GHz



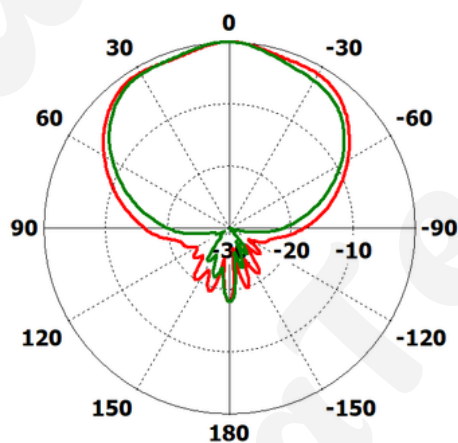
4GHz



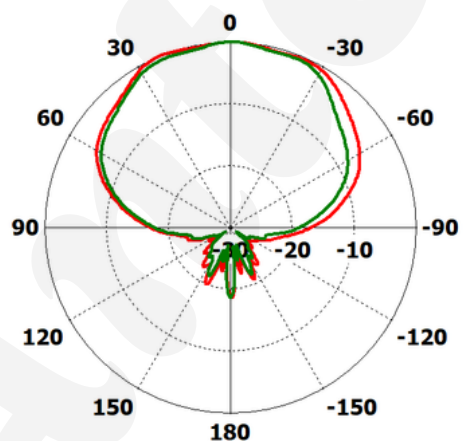
6GHz



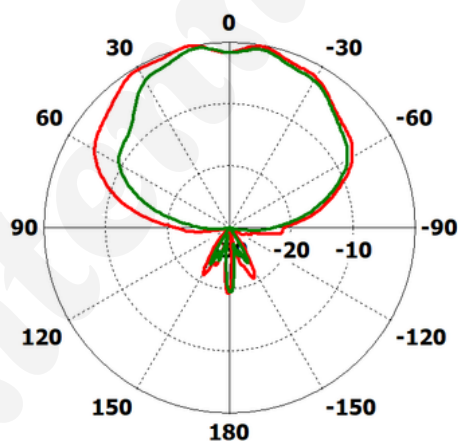
10GHz



14GHz



18GHz



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