

AT-HL-1.1-1.8-N



Key Specifications

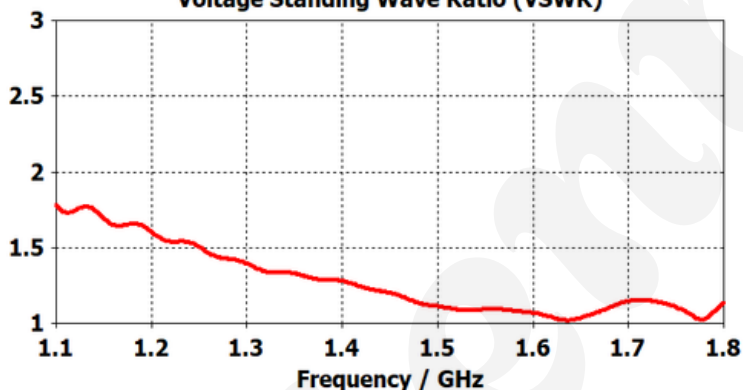
Operating frequency band	1.1 - 1.8 GHz
Connector	N type female
VSWR	< 2:1
Gain	> 9 dBi
3dB Beamwidth	25-60 degrees
Polarization	circular polarization
Size	length 57cm, width 18cm
Axial Ratio	< 2dbi

This circularly polarised helical antenna operates across 1.1–1.8 GHz frequency range and provides directional gain for long-range wireless and telemetry links. Its radome-based structure, controlled axial-ratio response, and more than 9 dBi gain make it suitable for UAV communication, tracking systems, airborne links, remote sensing platforms, and RF applications requiring stable circular polarisation and reduced sensitivity to antenna orientation.

Please contact AntennaTec for a full interface control drawing.

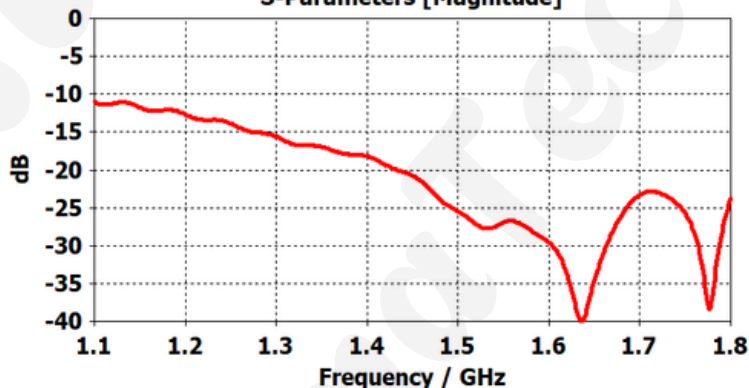
VSWR

Voltage Standing Wave Ratio (VSWR)



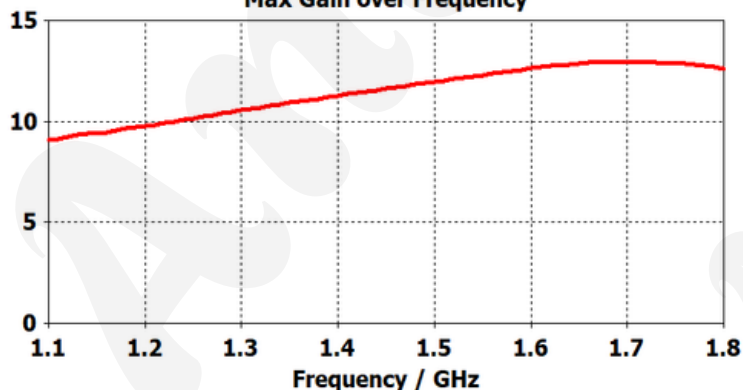
S11

S-Parameters [Magnitude]



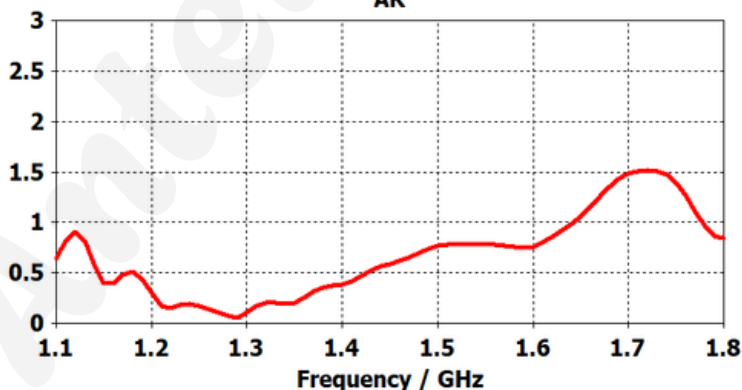
Gain

Max Gain over Frequency



Axial Ratio

AR

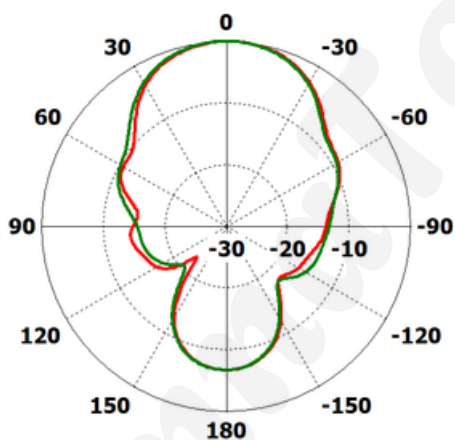


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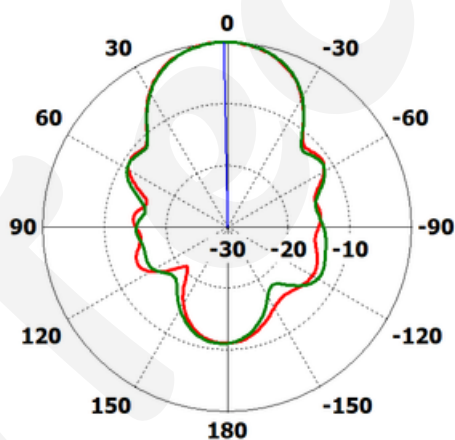


Radiation Patterns: Red = Phi 0; Green = Phi 90

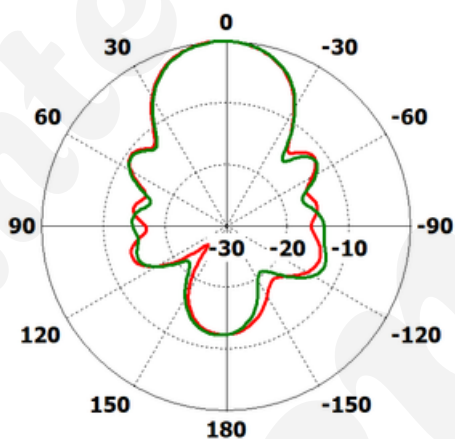
1.1GHz



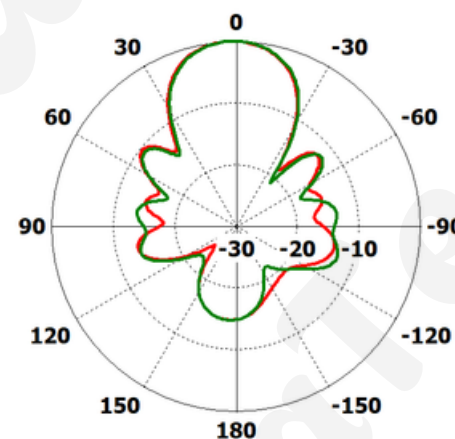
1.3GHz



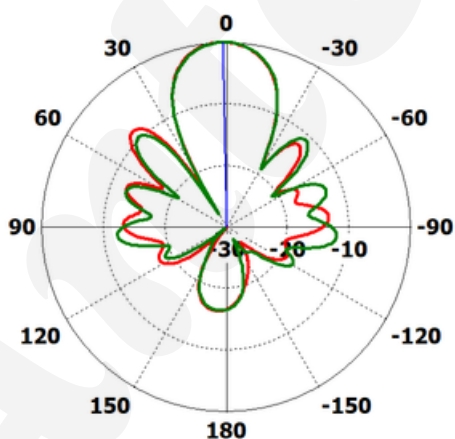
1.4GHz



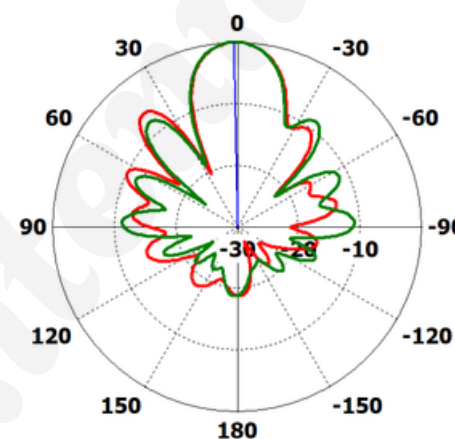
1.5GHz



1.7GHz



1.8GHz



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