

AT-HL-2.8-4.2-N



Key Specifications

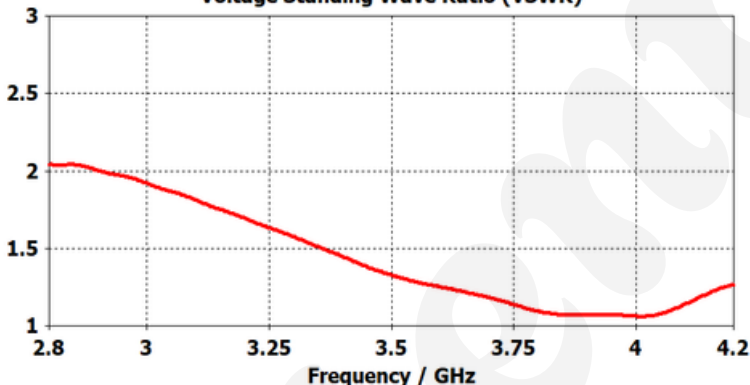
Operating frequency band	2.8 - 4.2 GHz
Connector	N type female
VSWR	< 2:1
Gain	> 9 dBi
3dB Beamwidth	25-60 degrees
Polarization	circular polarization
Size	length 28cm, width 15cm
Axial Ratio	< 2dbi

This circularly polarised helical antenna operates across 2.8–4.2 GHz frequency range and provides compact directional coverage for S-band and lower C-band RF applications. Its high-gain helical structure, radome enclosure, and stable axial-ratio behaviour support telemetry, UAV communication, tracking links, wireless video transmission, and aerospace-related RF platforms requiring dependable circular polarisation over a broad operating band.

Please contact AntennaTec for a full interface control drawing.

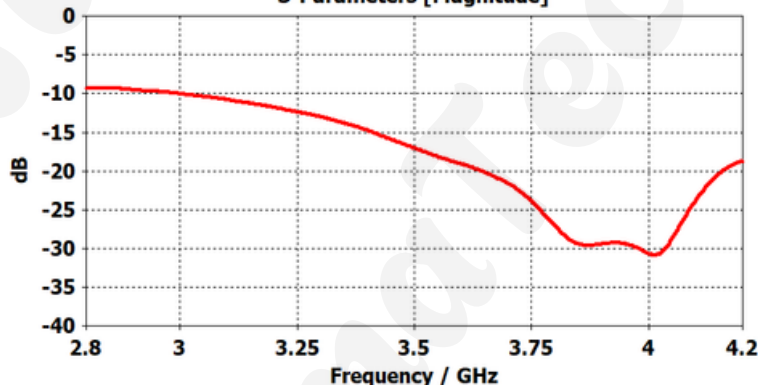
VSWR

Voltage Standing Wave Ratio (VSWR)



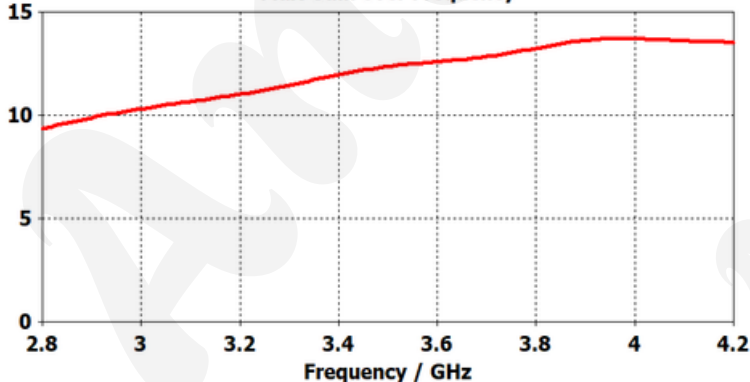
S11

S-Parameters [Magnitude]



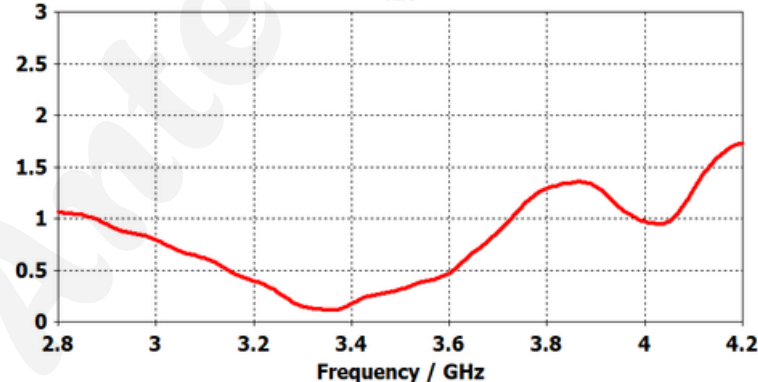
Gain

Max Gain over Frequency



Axial Ratio

AR

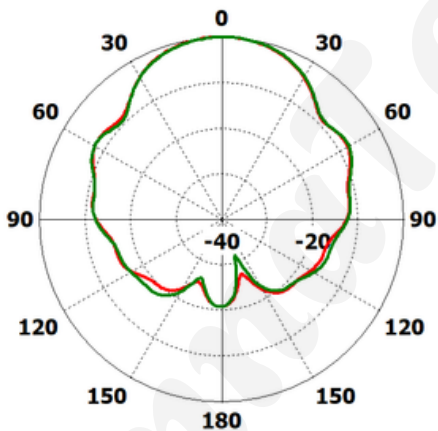


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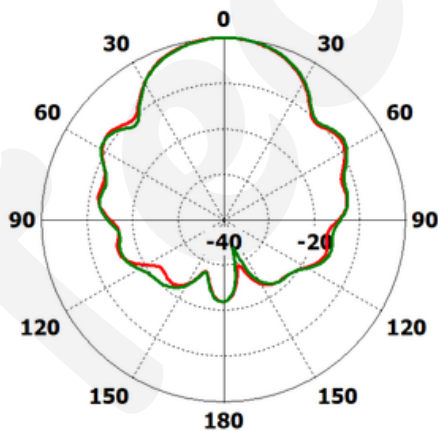


Radiation Patterns: Red = Phi 0; Green = Phi 90

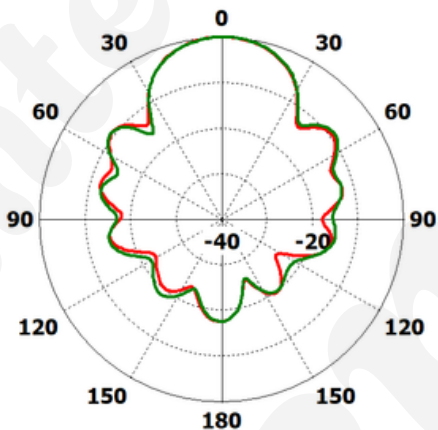
2.8GHz



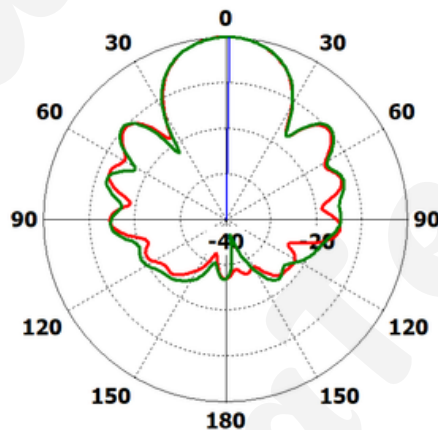
3GHz



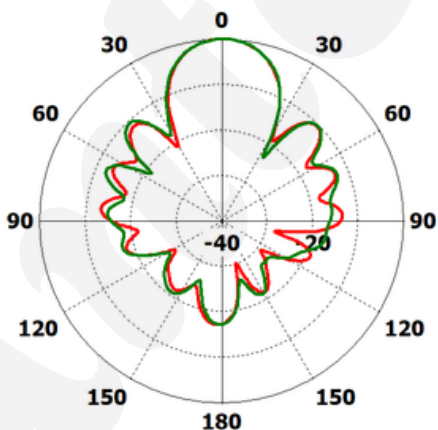
3.3GHz



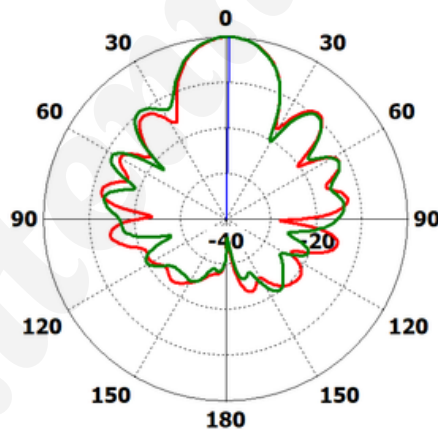
3.6GHz



3.9GHz



4.2GHz



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