

1.1-1.7 GHz circularly polarized helical antenna fitted with an N type connector and radome

AT-HL-1.1-1.7-N



Key Specifications

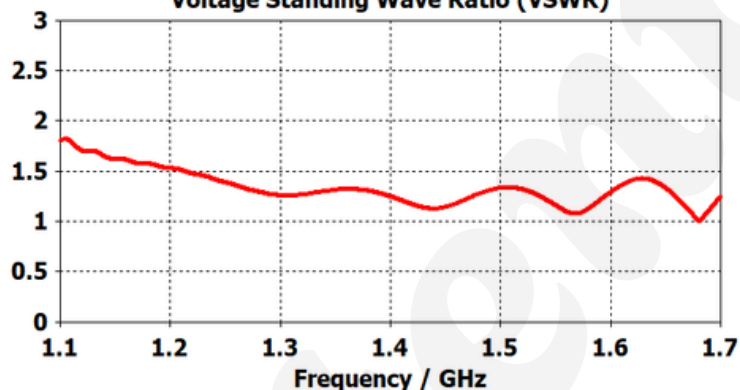
Operating frequency band	1.1 - 1.7 GHz
Connector	N type female
VSWR	< 2:1
Gain	> 10 dBi
3dB Beamwidth	30-60 degrees
Polarization	circular polarization
Size	length 50cm, dia 24cm
Axial Ratio	< 1.5dbi

This circularly polarized helical antenna designed for reliable long-range wireless communication across 1.1–1.62 GHz frequency range. Featuring directional gain greater than 10 dBi, a durable radome enclosure, it delivers strong signal performance, reduced sensitivity to antenna orientation, and excellent polarization characteristics. This antenna is ideal for UAV communications, tracking systems, remote sensing, and other RF applications requiring stable and efficient wireless links.

Please contact AntennaTec for a full interface control drawing.

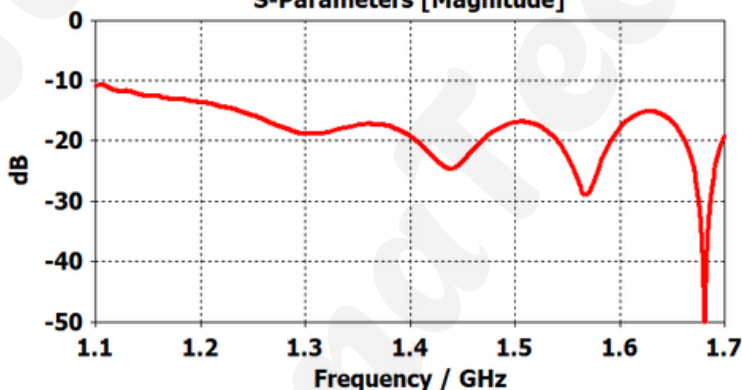
VSWR

Voltage Standing Wave Ratio (VSWR)



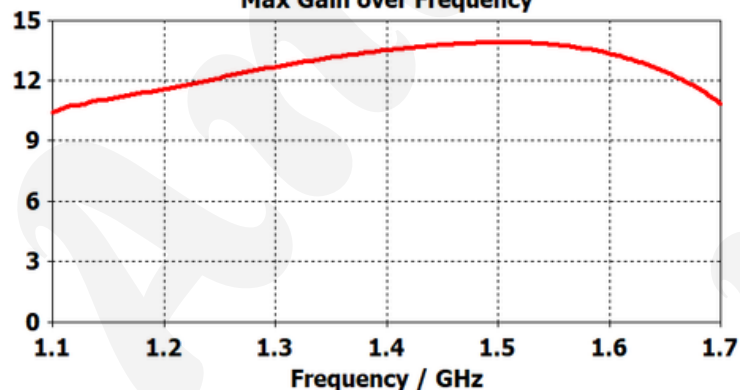
S11

S-Parameters [Magnitude]



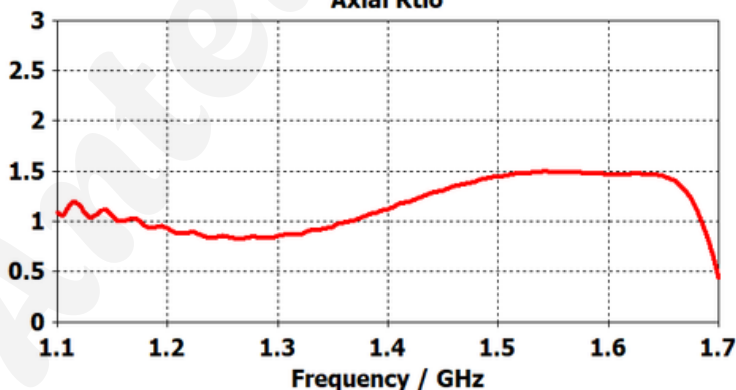
Gain

Max Gain over Frequency



Axial Ratio

Axial Ratio

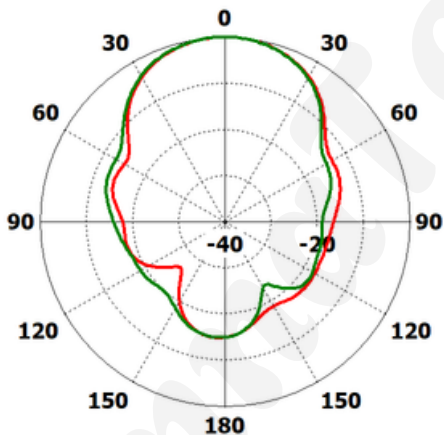


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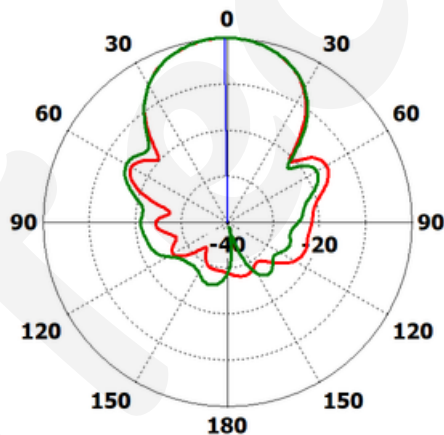


Radiation Patterns: Red = Phi 0; Green = Phi 90

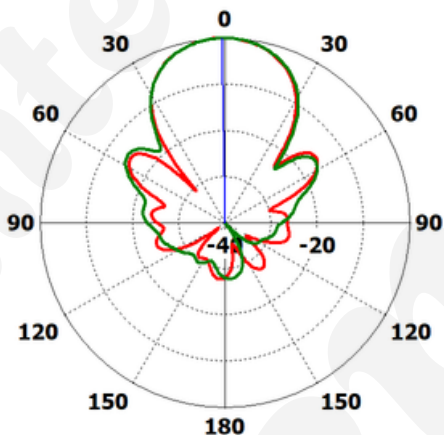
1.1GHz



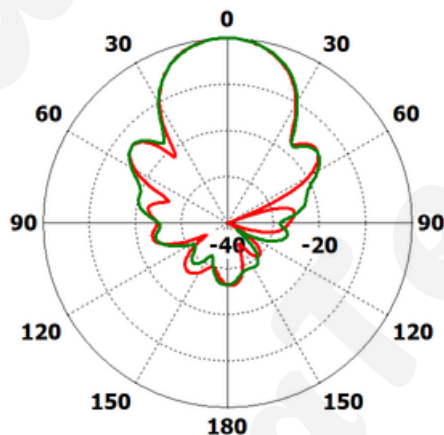
1.3GHz



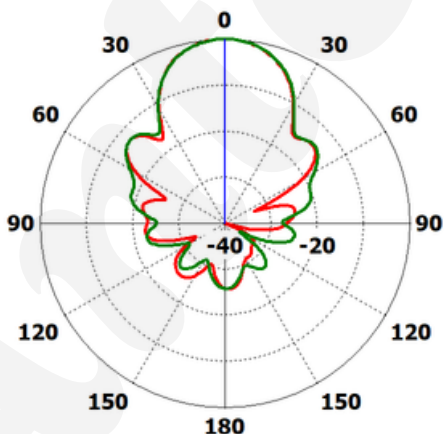
1.42GHz



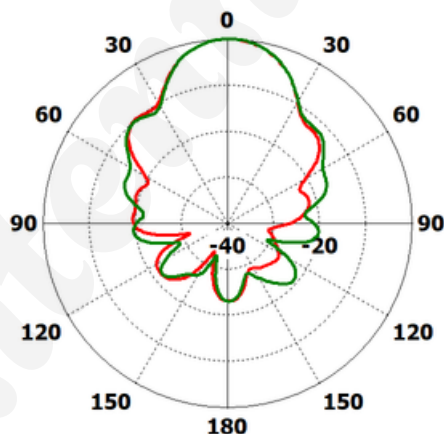
1.5GHz



1.54GHz



1.62GHz



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