

Ground independent, horizontally polarized 2.4/6.5GHz dipole antenna for WLAN applications.

Optimised for operation in free space.



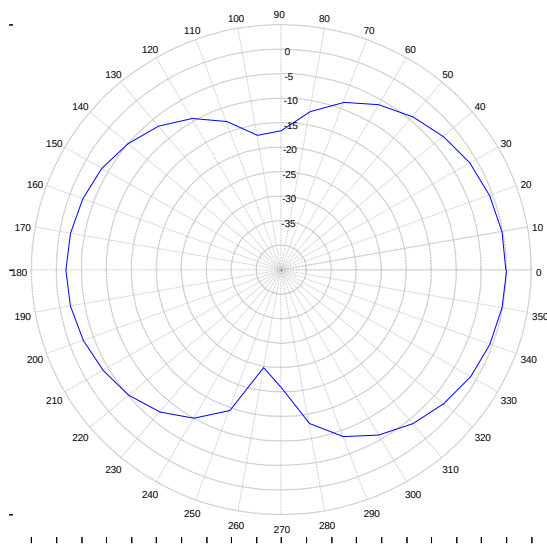
Specifications

Part Number	ZZ44806
Description	CWS Bass Antenna 2
Antenna type	Dipole
Connector Type	Hirose U.FL(A)-LP(P)-088
Cable Type	Ø 1.37 Low loss
Impedance	50 Ohms
Polarization	Linear - Horizontal
Radiation Pattern	Omnidirectional
Center Frequency	2.44/6.5GHz
VSWR	< 2
Cable Length	460 ±5mm
Cable Loss	0.6 /1 dB
Peak Gain*	2.3 /3 dBi
Peak Gain with cable loss*	1.7 /2 dBi
Antenna PCB dimensions	52mm x 52mm x 1mm
Antenna element dimensions	~44.5mm x 13mm
PCB Material	FR4 TG ≥ 140

*Typical values when measured in free space.

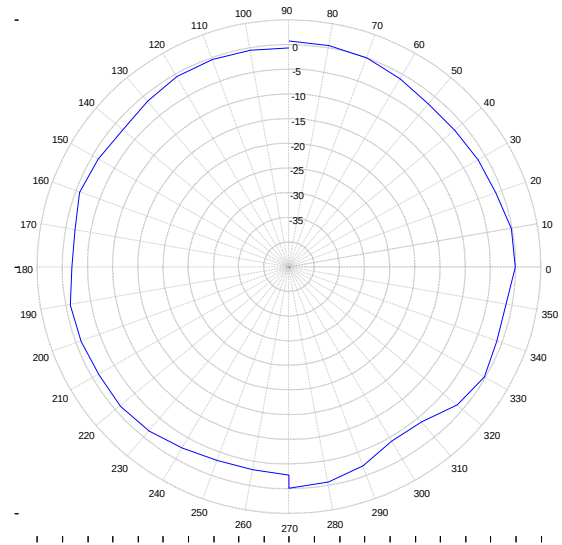
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Data Sheet



Name: .
Date/Time = 19/07/2023 09:09:45
Plot Scale: 5 dB/Div
Beamwidth: 85.98 Degrees

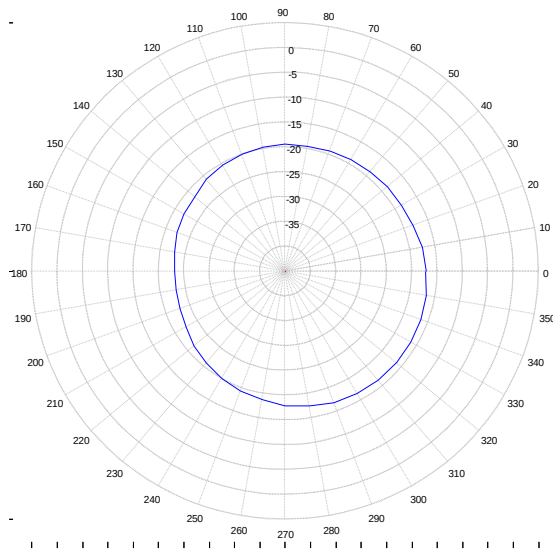
Frequency: 2439.718592964824 MHz
MAX dB= -0.070 @ 360 Deg.
MIN dB= -24.69 @ 260 Deg.
dB Min/Max Delta = 24.623 dB



Name: .
Date/Time = 19/07/2023 09:10:48
Plot Scale: 5 dB/Div
Beamwidth: 279.2 Degrees

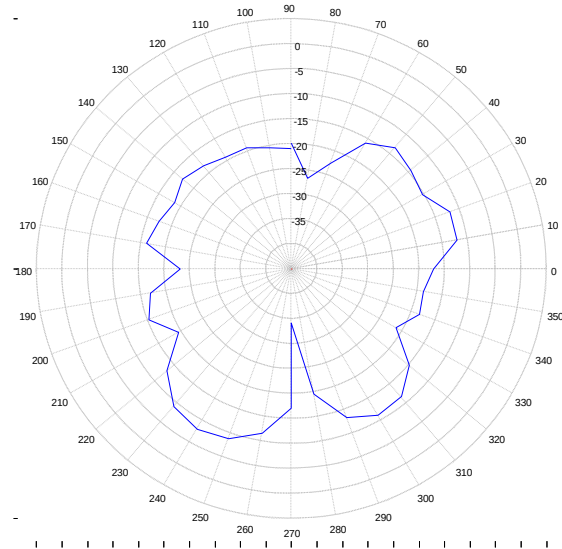
Frequency: 2439.718592964824 MHz
MAX dB= 0.7331 @ 90 Deg.
MIN dB= -4.279 @ -60 Deg.
dB Min/Max Delta = 5.0122 dB

2445MHZ LEFT: AZIMUTH CUT @ 0° ELEVATION, RIGHT: ELEVATION CUT @0° AZIMUTH - HORIZONTAL POLARIZATION



Name: .
Date/Time = 19/07/2023 09:11:50
Plot Scale: 5 dB/Div
Beamwidth: 185.0 Degrees

Frequency: 2439.718592964824 MHz
MAX dB= -16.34 @ 320 Deg.
MIN dB= -23.15 @ 190 Deg.
dB Min/Max Delta = 6.8144 dB

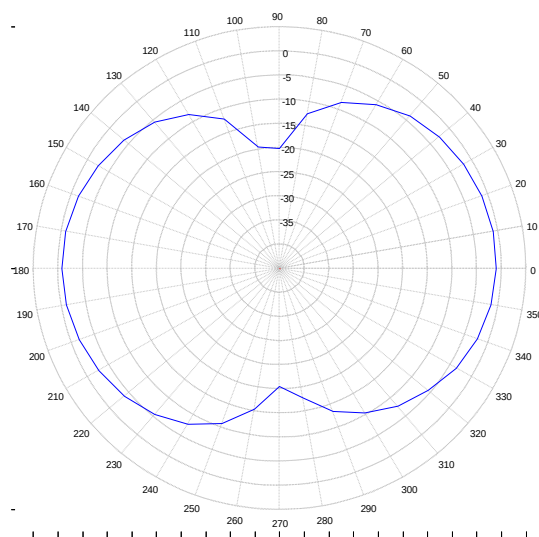


Name: .
Date/Time = 19/07/2023 09:12:41
Plot Scale: 5 dB/Div
Beamwidth: 32.39 Degrees

Frequency: 2439.718592964824 MHz
MAX dB= -7.980 @ -120 Deg.
MIN dB= -34.07 @ -90 Deg.
dB Min/Max Delta = 26.095 dB

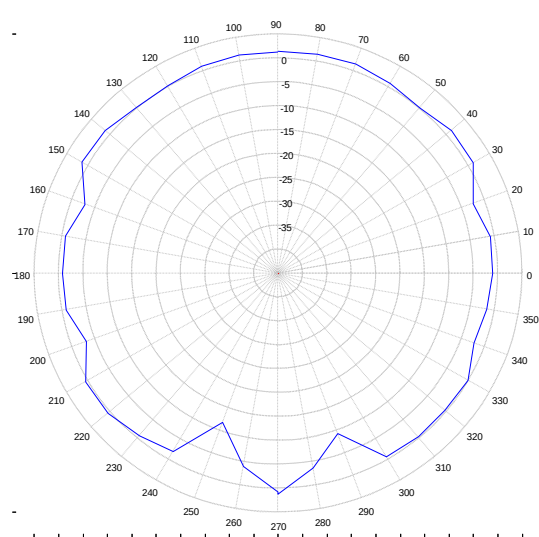
2445MHZ LEFT: AZIMUTH CUT @ 0° ELEVATION, RIGHT: ELEVATION CUT @0° AZIMUTH - VERTICAL POLARIZATION

Data Sheet



Name: .
Date/Time = 19/07/2023 10:20:23
Plot Scale: 5 dB/Div
Beamwidth: 79.48 Degrees

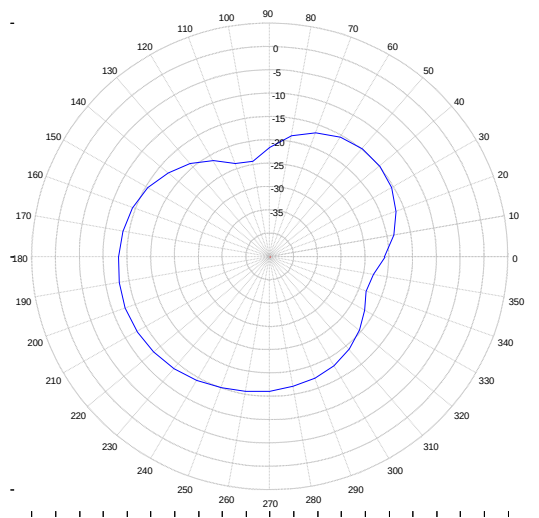
Frequency: 5670 MHz
MAX dB= -0.795 @ 180 Deg.
MIN dB= -20.47 @ 270 Deg.
dB Min/Max Delta = 19.679 dB



Name: .
Date/Time = 19/07/2023 10:22:59
Plot Scale: 5 dB/Div
Beamwidth: 133.7 Degrees

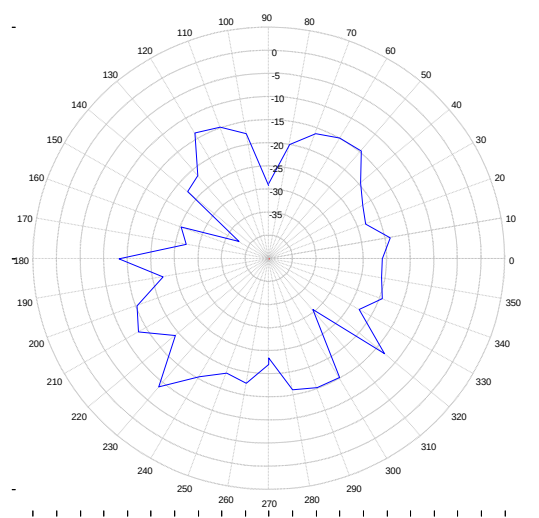
Frequency: 5670 MHz
MAX dB= 1.5384 @ 80 Deg.
MIN dB= -11.77 @ -110 Deg.
dB Min/Max Delta = 13.313 dB

5670MHZ LEFT: AZIMUTH CUT @ 0° ELEVATION, RIGHT: ELEVATION CUT @0° AZIMUTH - HORIZONTAL POLARIZATION



Name: .
Date/Time = 19/07/2023 10:24:11
Plot Scale: 5 dB/Div
Beamwidth: 110.5 Degrees

Frequency: 5670 MHz
MAX dB= -12.69 @ 200 Deg.
MIN dB= -24.21 @ 100 Deg.
dB Min/Max Delta = 11.514 dB



Name: .
Date/Time = 19/07/2023 10:25:25
Plot Scale: 5 dB/Div
Beamwidth: 2.921 Degrees

Frequency: 5670 MHz
MAX dB= -6.756 @ -130 Deg.
MIN dB= -37.70 @ -210 Deg.
dB Min/Max Delta = 28.946 dB

5670MHZ LEFT: AZIMUTH CUT @ 0° ELEVATION, RIGHT: ELEVATION CUT @0° AZIMUTH – VERTICAL POLARIZATION

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