

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

Optimised for operation in free space.



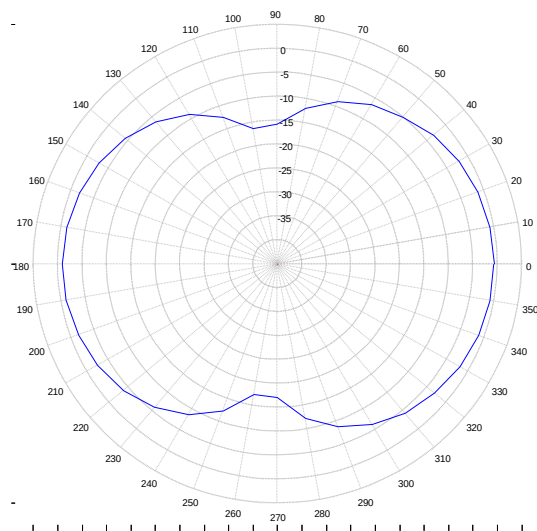
Specifications

Part Number	ZZ45659
Description	CWS Flex 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	133mm ± 3mm
Cable Loss	0.3 /0.4 dB
Peak Gain*	2.3 /3 dBi
Peak Gain with cable loss*	2.0 /2.6 dBi
Antenna PCB dimensions	48mm x 16mm x 1mm
Antenna element dimensions	~43.9mm x 12mm
PCB Material	FR4 TG ≥ 140

*Typical values when measured in free space.

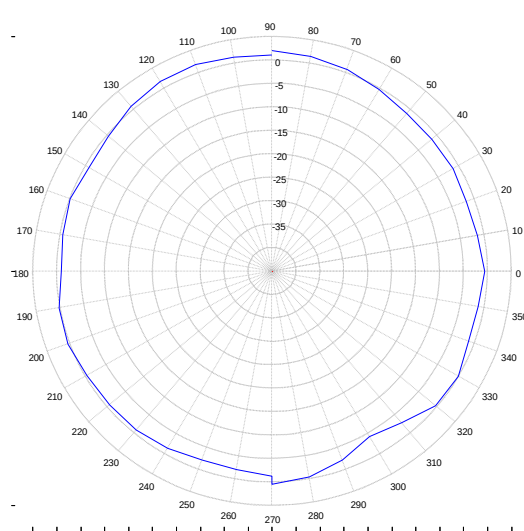
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Data Sheet



Name: .
Date/Time = 06/02/2024 12:50:32
Plot Scale: 5 dB/Div
Beamwidth: 86.55 Degrees

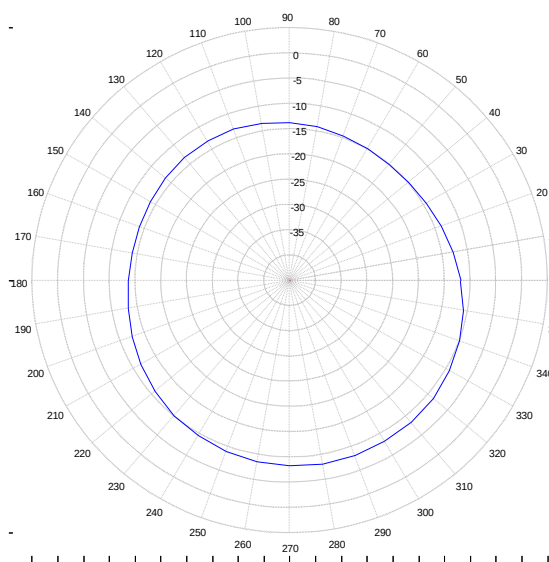
Frequency: 2449.723618090452 MHz
MAX dB= -0.642 @ 0 Deg.
MIN dB= -17.35 @ 260 Deg.
dB Min/Max Delta = 16.713 dB



Name: .
Date/Time = 06/02/2024 12:56:57
Plot Scale: 5 dB/Div
Beamwidth: 182.5 Degrees

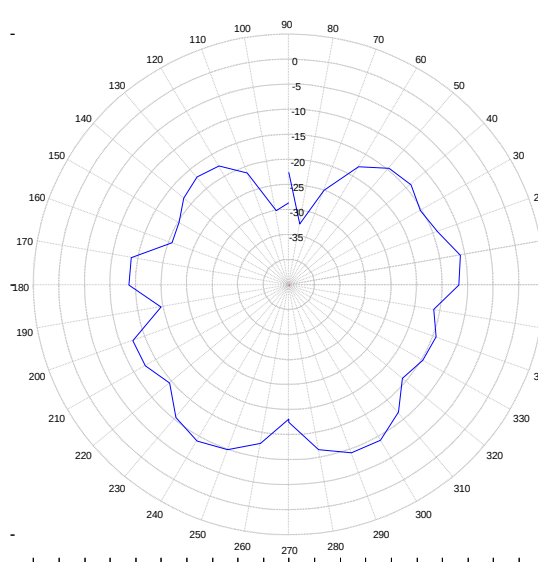
Frequency: 2449.723618090452 MHz
MAX dB= 1.9463 @ 90 Deg.
MIN dB= -4.247 @ -60 Deg.
dB Min/Max Delta = 6.1935 dB

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



Name: .
Date/Time = 06/02/2024 12:57:59
Plot Scale: 5 dB/Div
Beamwidth: 136.4 Degrees

Frequency: 2449.723618090452 MHz
MAX dB= -8.120 @ 280 Deg.
MIN dB= -15.09 @ 50 Deg.
dB Min/Max Delta = 6.9766 dB



Name: .
Date/Time = 06/02/2024 12:59:40
Plot Scale: 5 dB/Div
Beamwidth: 31.25 Degrees

Frequency: 2449.723618090452 MHz
MAX dB= -9.052 @ -120 Deg.
MIN dB= -32.66 @ 80 Deg.
dB Min/Max Delta = 23.607 dB

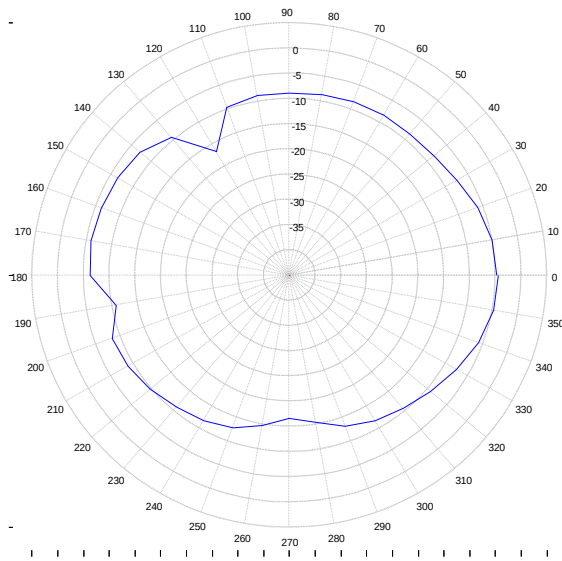
2445MHz LEFT: AZIMUTH CUT @ 0° ELEVATION, RIGHT: ELEVATION CUT @ 0° AZIMUTH - VERTICAL POLARIZATION

Radtenna Ltd. 26 Merley Lane, Wimborne, Dorset, BH21 1RY, UK
Company Number 10071667

www.radtenna.com

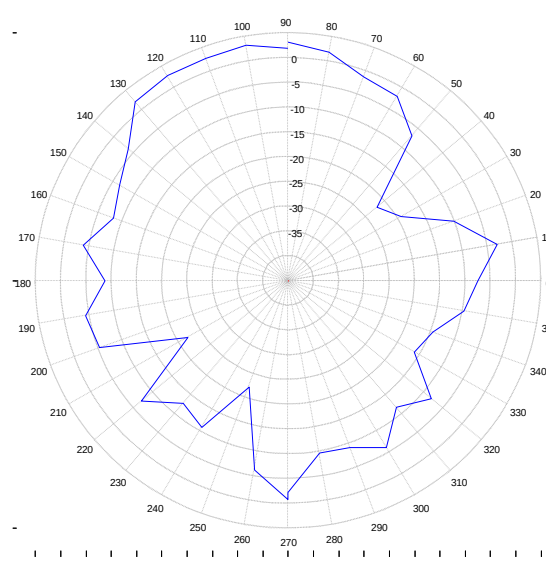
DS-RAD-FH-2465-R4

Data Sheet



Name: .
Date/Time = 06/02/2024 13:31:04
Plot Scale: 5 dB/Div
Beamwidth: 58.71 Degrees

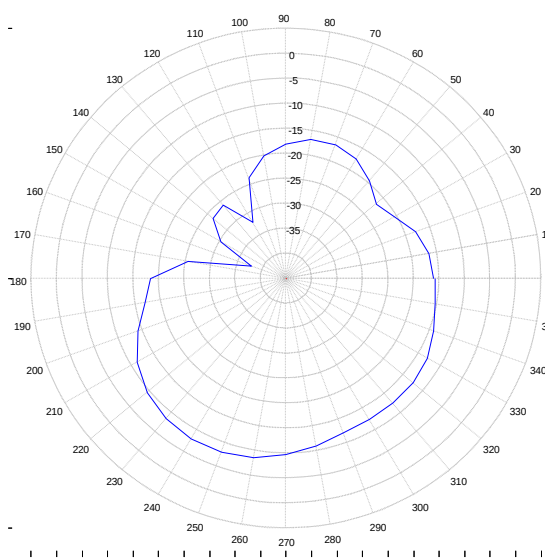
Frequency: 6525 MHz
MAX dB= -4.425 @ 360 Deg.
MIN dB= -16.66 @ 270 Deg.
dB Min/Max Delta = 12.238 dB



Name: .
Date/Time = 06/02/2024 13:32:42
Plot Scale: 5 dB/Div
Beamwidth: 58.28 Degrees

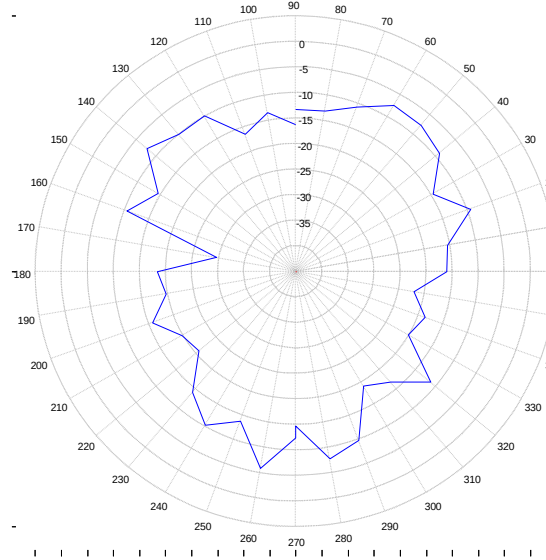
Frequency: 6525 MHz
MAX dB= 3.2233 @ -260 Deg.
MIN dB= -22.16 @ -110 Deg.
dB Min/Max Delta = 25.387 dB

6500MHZ LEFT: AZIMUTH CUT @ 0° ELEVATION, RIGHT: ELEVATION CUT @0° AZIMUTH - VERTICAL POLARIZATION



Name: .
Date/Time = 06/02/2024 13:33:54
Plot Scale: 5 dB/Div
Beamwidth: 67.17 Degrees

Frequency: 6525 MHz
MAX dB= -7.903 @ 240 Deg.
MIN dB= -37.69 @ 160 Deg.
dB Min/Max Delta = 29.791 dB



Name: .
Date/Time = 06/02/2024 13:37:15
Plot Scale: 5 dB/Div
Beamwidth: 3.800 Degrees

Frequency: 6525 MHz
MAX dB= -5.915 @ -100 Deg.
MIN dB= -29.54 @ -190 Deg.
dB Min/Max Delta = 23.625 dB

6500MHZ LEFT: AZIMUTH CUT @ 0° ELEVATION, RIGHT: ELEVATION CUT @0° AZIMUTH - VERTICAL POLARIZATION