Data Sheet

Bowers & Wilkins ZZ45667

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

Optimised for operation in free space.

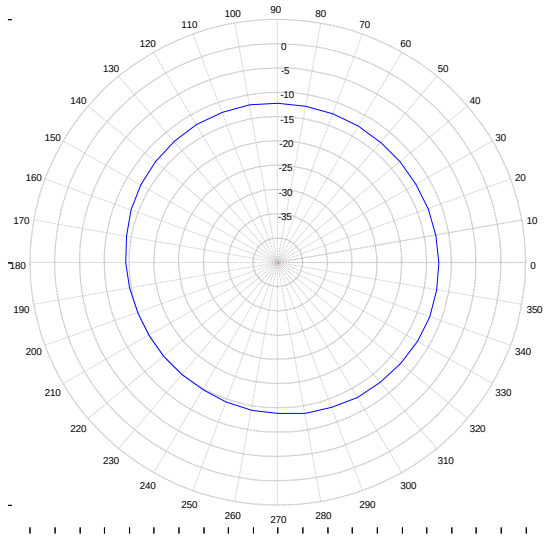
Specifications

Part Number	ZZ45667
Description	CWS Flex Antenna 3
Antenna type	Dipole
Connector Type	Hirose U.FL(A)-LP(P)-088
Cable Type	Ø 1.37 Low loss
Impedance	50 Ohms
Polarization	Linear - Vertical
Radiation Pattern	Omnidirectional
Center Frequency	2.44/6.5GHz
VSWR	< 2
Cable Length	123 ± 3mm
Cable Loss	0.3/.4 dB
Peak Gain*	2.1/2.4 dBi
Peak Gain with cable loss*	1.8/2.0 dBi
Antenna PCB dimensions	48mm x 16mm x 1mm
Antenna element dimensions	~13mm x 45mm
PCB Material	FR4 TG ≥ 140

*Typical values when measured in free space.

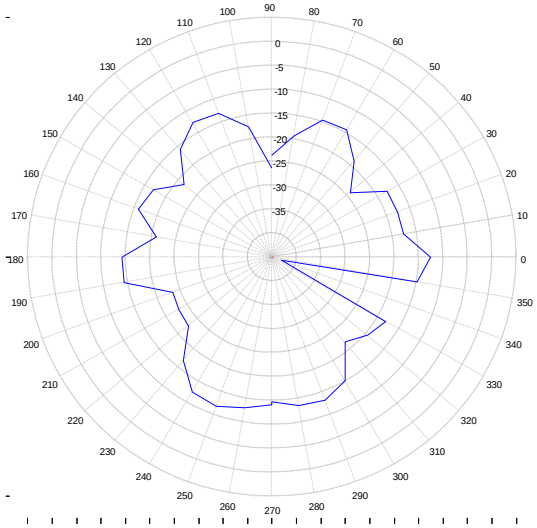
Data Sheet

RADTENNA LTD



Name: .
Date/Time = 06/02/2024 13:10:47
Plot Scale: 5 dB/Div
Beamwidth: 360 Degrees

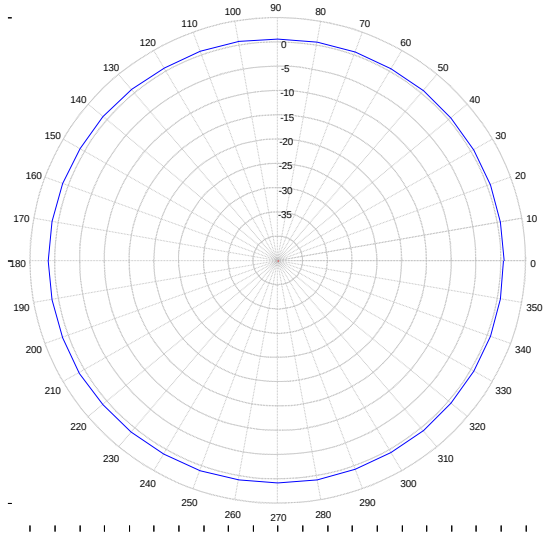
Frequency: 2449.723618090452 MHz
MAX dB= -12.08 @ 110 Deg.
MIN dB= -14.97 @ 220 Deg.
dB Min/Max Delta = 2.8924 dB



Name: .
Date/Time = 06/02/2024 13:13:18
Plot Scale: 5 dB/Div
Beamwidth: 73.56 Degrees

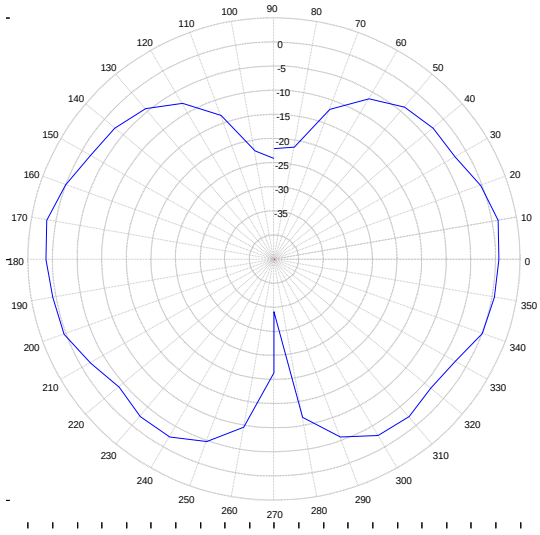
Frequency: 2449.723618090452 MHz
MAX dB= -11.76 @ -110 Deg.
MIN dB= -51.07 @ -20 Deg.
dB Min/Max Delta = 39.302 dB

2445MHz Left: Azimuth cut @ 0° Elevation, Right: Elevation cut @0° Azimuth - Horizontal Polarization



Name: .
Date/Time = 06/02/2024 13:14:37
Plot Scale: 5 dB/Div
Beamwidth: 360 Degrees

Frequency: 2449.723618090452 MHz
MAX dB= 1.3388 @ 190 Deg.
MIN dB= 0.5239 @ 360 Deg.
dB Min/Max Delta = 0.8148 dB



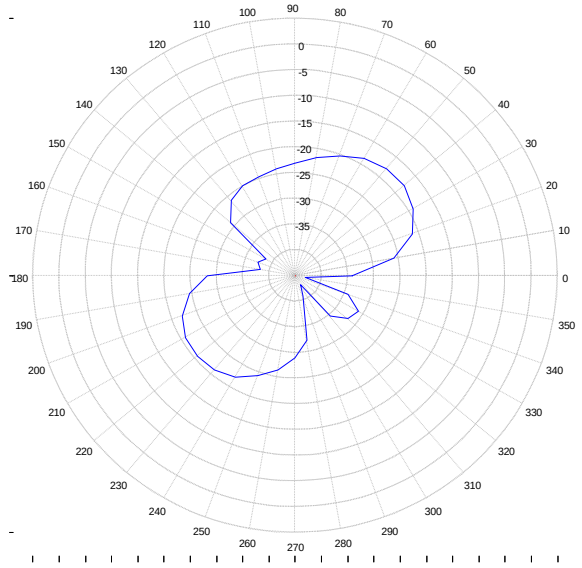
Name: .
Date/Time = 06/02/2024 13:15:14
Plot Scale: 5 dB/Div
Beamwidth: 52.60 Degrees

Frequency: 2449.723618090452 MHz
MAX dB= 1.8607 @ -190 Deg.
MIN dB= -34.15 @ -90 Deg.
dB Min/Max Delta = 36.019 dB

2445MHz Left: Azimuth cut @ 0° Elevation, Right: Elevation cut @0° Azimuth - Vertical Polarization

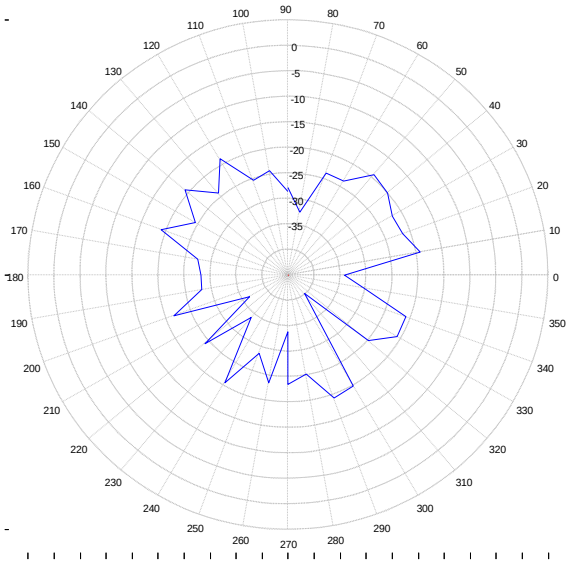
Data Sheet

RADTENNA LTD



Name: .
Date/Time = 06/02/2024 13:44:36
Plot Scale: 5 dB/Div
Beamwidth: 52.72 Degrees

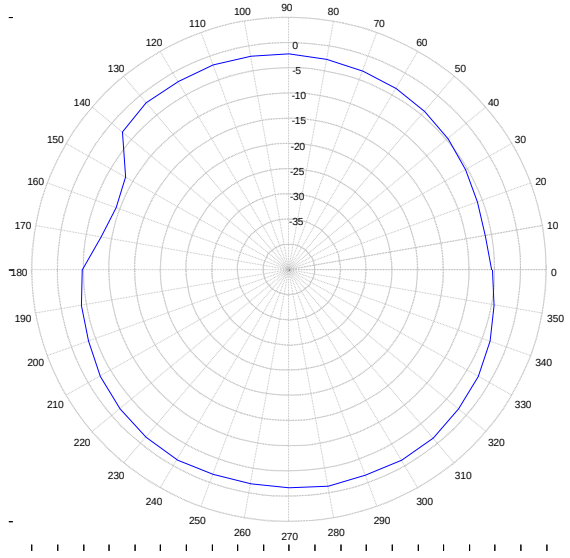
Frequency: 6525 MHz
MAX dB= -17.90 @ 50 Deg.
MIN dB= -45.39 @ 350 Deg.
dB Min/Max Delta = 27.490 dB



Name: .
Date/Time = 06/02/2024 13:45:19
Plot Scale: 5 dB/Div
Beamwidth: 4.549 Degrees

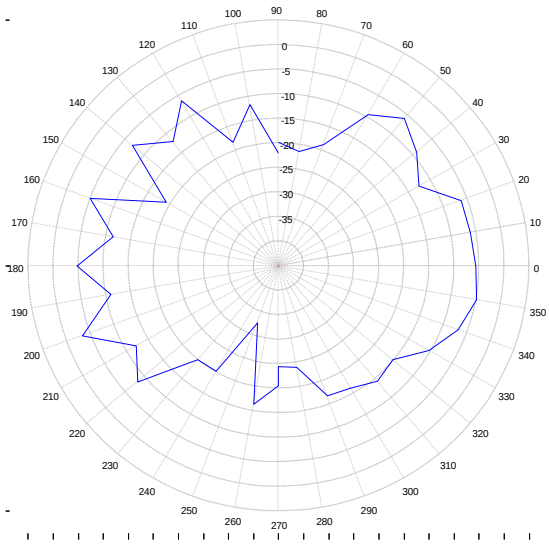
Frequency: 6525 MHz
MAX dB= -18.74 @ -240 Deg.
MIN dB= -40.21 @ -50 Deg.
dB Min/Max Delta = 21.466 dB

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



Name: .
Date/Time = 06/02/2024 13:48:59
Plot Scale: 5 dB/Div
Beamwidth: 163.4 Degrees

Frequency: 6525 MHz
MAX dB= -1.354 @ 300 Deg.
MIN dB= -9.211 @ 160 Deg.
dB Min/Max Delta = 7.8566 dB



Name: .
Date/Time = 06/02/2024 13:50:02
Plot Scale: 5 dB/Div
Beamwidth: 3.936 Degrees

Frequency: 6525 MHz
MAX dB= -3.314 @ -160 Deg.
MIN dB= -32.54 @ -110 Deg.
dB Min/Max Delta = 29.231 dB

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