

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

Optimised for operation when mounted on 2mm thick KINGFA black plastic.



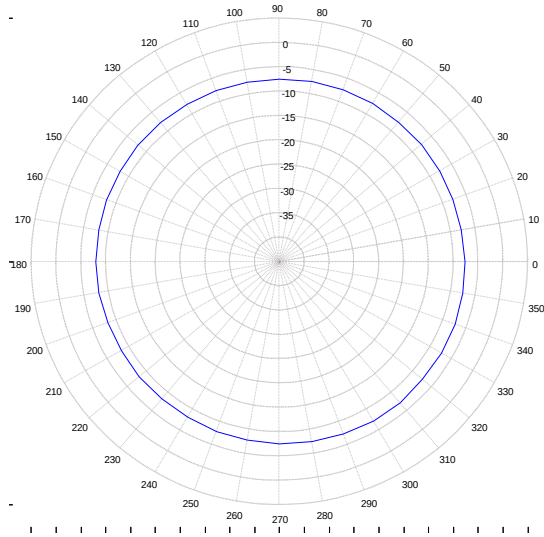
Specifications

Part Number	ZZ44598
Description	Formation Bar 2 - Antenna 3
Antenna type	Dipole
Connector Type	U.FL Receptacle IPEX 20279-001E-03
Impedance	50 Ohms
Polarization	Linear - Vertical
Radiation Pattern	Omnidirectional
Center Frequency	2.44/6.5GHz
VSWR	< 2/3
Peak Gain*	1.4/3.6 dBi
Antenna PCB dimensions	13.4mm x 42.5mm x 1mm
PCB Material	FR4 TG $\geq$ 140

*Typical values when measured on 2mm thick KINGFA black plastic.

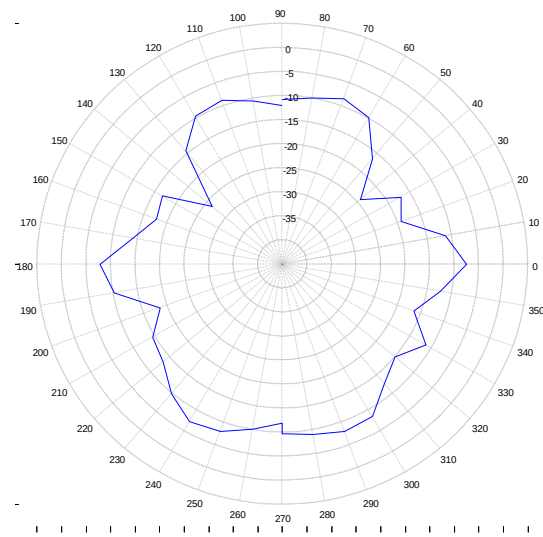
The materials provided are believed to be reliable and correct at the time of release. Radtenna Ltd. does not warrant the accuracy or completeness of the information No liability is assumed due to their use or application.

Data Sheet



Name: .
Date/Time = 11/04/2024 13:20:06
Plot Scale: 5 dB/Div
Beamwidth: 360 Degrees

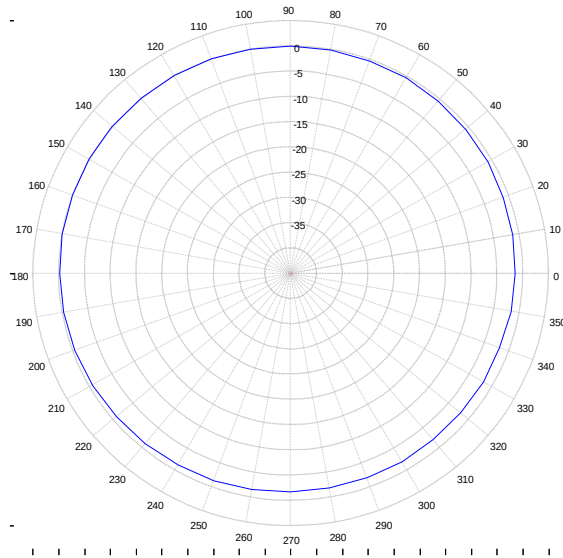
Frequency: 2449.723618090452 MHz
MAX dB= -7.240 @ 310 Deg.
MIN dB= -8.193 @ 210 Deg.
dB Min/Max Delta = 0.9533 dB



Name: .
Date/Time = 11/04/2024 13:23:04
Plot Scale: 5 dB/Div
Beamwidth: 30.98 Degrees

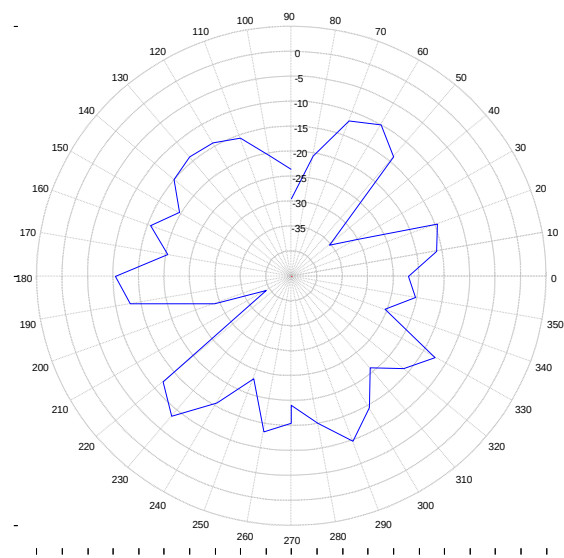
Frequency: 2449.723618090452 MHz
MAX dB= -7.114 @ -120 Deg.
MIN dB= -26.39 @ -220 Deg.
dB Min/Max Delta = 19.279 dB

2450MHZ LEFT: AZIMUTH CUT @ 0° ELEVATION, RIGHT: ELEVATION CUT @0° AZIMUTH - HORIZONTAL POLARIZATION



Name: .
Date/Time = 11/09/2024 10:12:47
Plot Scale: 5 dB/Div
Beamwidth: 360 Degrees

Frequency: 2449.723618090452 MHz
MAX dB= 0.2272 @ 130 Deg.
MIN dB= -2.111 @ 310 Deg.
dB Min/Max Delta = 2.3388 dB

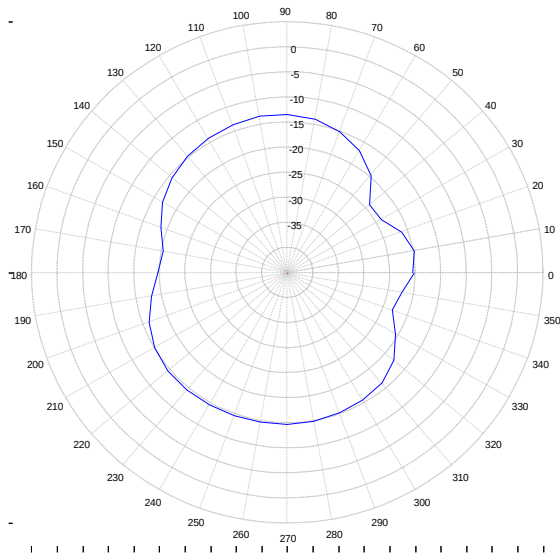


Name: .
Date/Time = 17/09/2024 12:33:51
Plot Scale: 5 dB/Div
Beamwidth: 8.047 Degrees

Frequency: 6510 MHz
MAX dB= -8.306 @ -130 Deg.
MIN dB= -39.25 @ -150 Deg.
dB Min/Max Delta = 30.945 dB

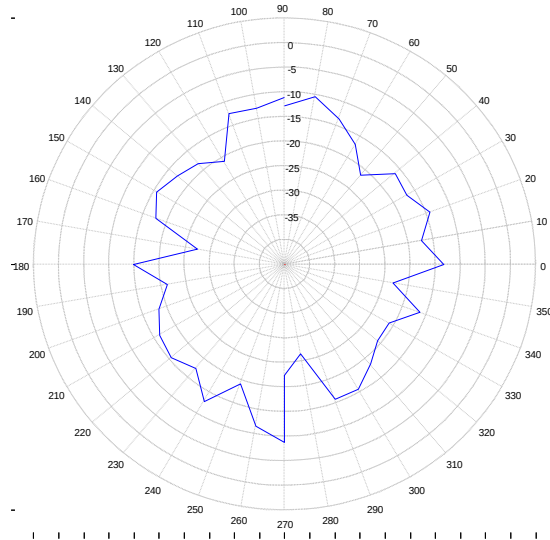
2450MHZ LEFT: AZIMUTH CUT @ 0° ELEVATION, RIGHT: ELEVATION CUT @0° AZIMUTH - VERTICAL POLARIZATION

Data Sheet



Name: .
Date/Time = 11/04/2024 12:54:50
Plot Scale: 5 dB/Div
Beamwidth: 83.27 Degrees

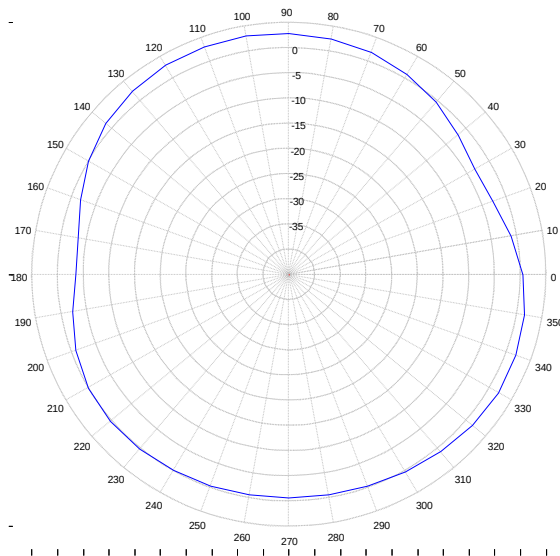
Frequency: 6510 MHz
MAX dB= -13.35 @ 100 Deg.
MIN dB= -23.99 @ 40 Deg.
dB Min/Max Delta = 10.643 dB



Name: .
Date/Time = 11/04/2024 12:57:35
Plot Scale: 5 dB/Div
Beamwidth: 10.31 Degrees

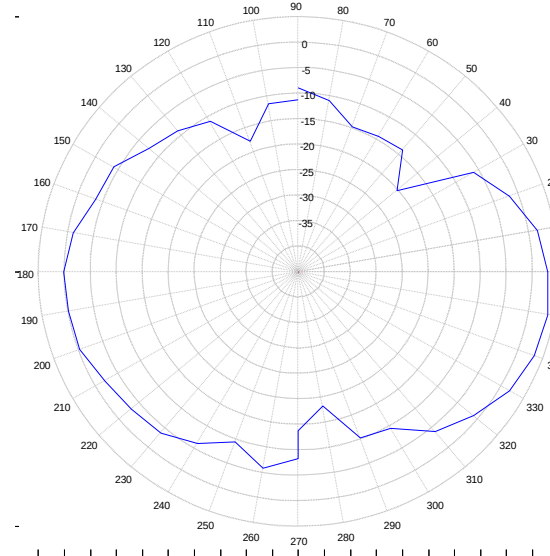
Frequency: 6510 MHz
MAX dB= -8.778 @ -90 Deg.
MIN dB= -27.25 @ -190 Deg.
dB Min/Max Delta = 18.480 dB

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



Name: .
Date/Time = 11/04/2024 12:58:25
Plot Scale: 5 dB/Div
Beamwidth: 95.75 Degrees

Frequency: 6510 MHz
MAX dB= 3.0727 @ 110 Deg.
MIN dB= -3.491 @ 180 Deg.
dB Min/Max Delta = 6.5643 dB



Name: .
Date/Time = 11/04/2024 13:03:43
Plot Scale: 5 dB/Div
Beamwidth: 47.33 Degrees

Frequency: 6510 MHz
MAX dB= 3.5754 @ -10 Deg.
MIN dB= -20.36 @ 40 Deg.
dB Min/Max Delta = 23.943 dB

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