

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

Optimised for operation when mounted on 4mm thick KINGFA black plastic.



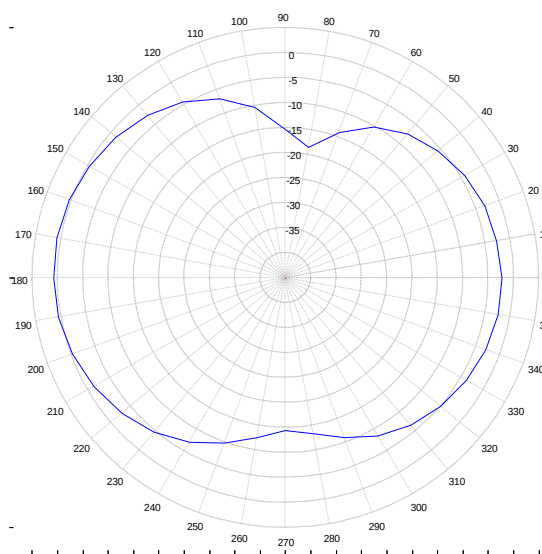
Specifications

Part Number	ZZ44571
Description	Formation Bar 2 - Antenna 2
Antenna type	Dipole
Connector Type	U.FL Receptacle IPEX 20279-001E-03
Impedance	50 Ohms
Polarization	Linear - Horizontal
Radiation Pattern	Omnidirectional
Center Frequency	2.44/6.5GHz
VSWR	< 2/3
Peak Gain*	2.4 /3.9 dBi
Antenna PCB dimensions	19mm x 46mm x 1mm
PCB Material	FR4 TG $\geq$ 140

*Typical values when measured on 4mm thick KINGFA black plastic.

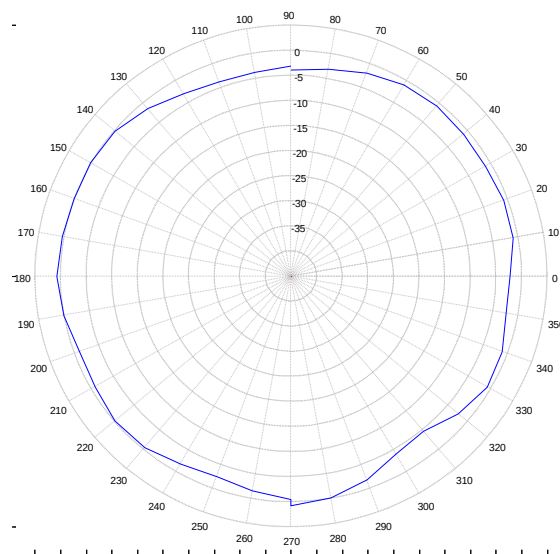
The materials provided are believed to be reliable and correct at the time of release. Radtenna Ltd. does not warrant the accuracy or completeness of the information No liability is assumed due to their use or application.

Data Sheet



Name: .
Date/Time = 17/09/2024 14:57:05
Plot Scale: 5 dB/Div
Beamwidth: 82.70 Degrees

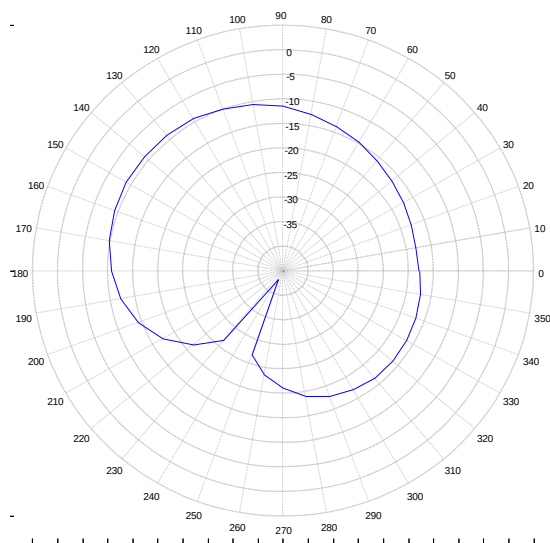
Frequency: 2449.723618090452 MHz
MAX dB= 0.8042 @ 180 Deg.
MIN dB= -18.55 @ 80 Deg.
dB Min/Max Delta = 19.354 dB



Name: .
Date/Time = 17/09/2024 14:57:55
Plot Scale: 5 dB/Div
Beamwidth: 120.6 Degrees

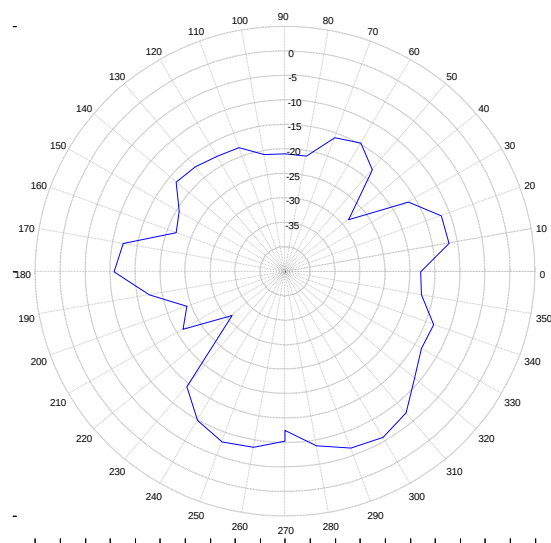
Frequency: 2449.723618090452 MHz
MAX dB= 0.8042 @ -180 Deg.
MIN dB= -4.807 @ -50 Deg.
dB Min/Max Delta = 5.6113 dB

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



Name: .
Date/Time = 17/09/2024 14:59:10
Plot Scale: 5 dB/Div
Beamwidth: 101.6 Degrees

Frequency: 2449.723618090452 MHz
MAX dB= -8.874 @ 150 Deg.
MIN dB= -49.77 @ 240 Deg.
dB Min/Max Delta = 40.900 dB



Name: .
Date/Time = 17/09/2024 15:00:04
Plot Scale: 5 dB/Div
Beamwidth: 33.94 Degrees

Frequency: 2449.723618090452 MHz
MAX dB= -5.867 @ -60 Deg.
MIN dB= -31.05 @ -140 Deg.
dB Min/Max Delta = 25.185 dB

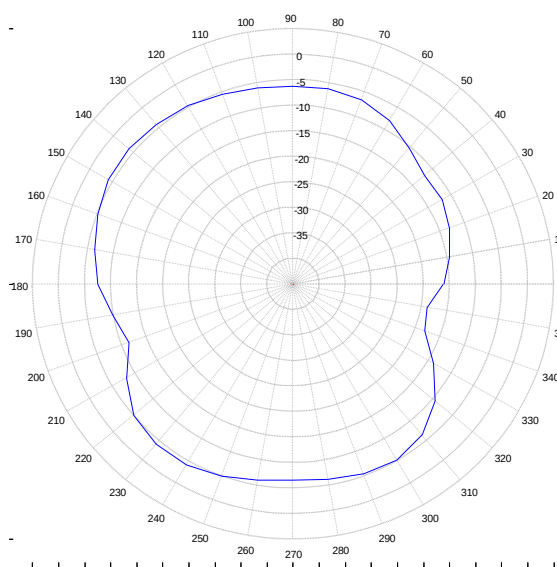
2450 MHz LEFT: AZIMUTH CUT @ 0° ELEVATION, RIGHT: ELEVATION CUT @ 0° AZIMUTH - VERTICAL POLARIZATION

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

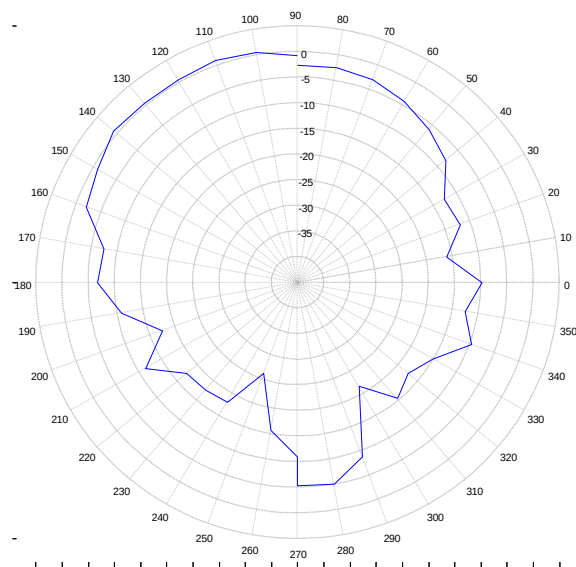
www.radtenna.com

DS-RAD-CH-2465-R4

Data Sheet

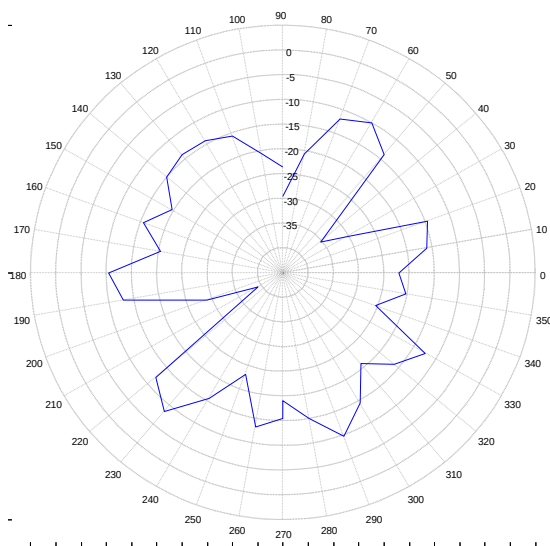


Name: .
Date/Time = 17/09/2024 11:56:51
Plot Scale: 5 dB/Div
Beamwidth: 106.1 Degrees
Frequency: 6510 MHz
MAX dB= -3.806 @ 140 Deg.
MIN dB= -18.95 @ 350 Deg.
dB Min/Max Delta = 15.149 dB

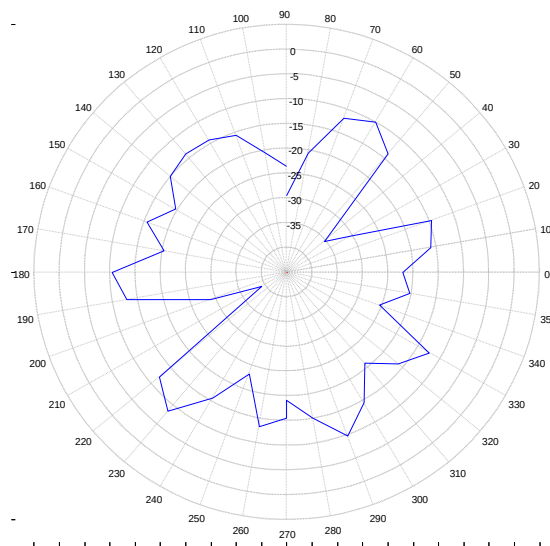


Name: .
Date/Time = 17/09/2024 11:58:16
Plot Scale: 5 dB/Div
Beamwidth: 64.93 Degrees
Frequency: 6510 MHz
MAX dB= 1.0794 @ -250 Deg.
MIN dB= -26.09 @ -110 Deg.
dB Min/Max Delta = 27.173 dB

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



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



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

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