

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

Optimised for operation when mounted on 3mm thick KINGFA black plastic.



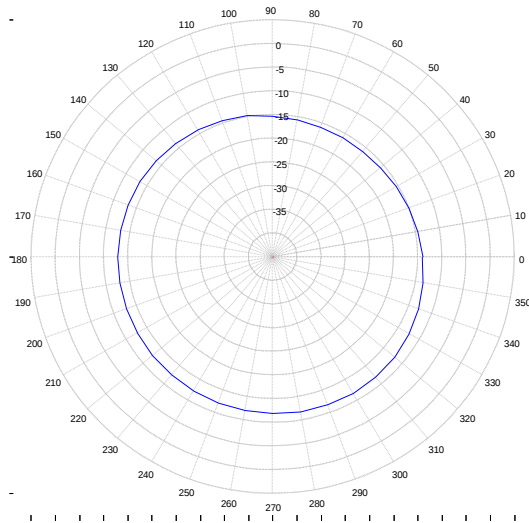
Specifications

Part Number	ZZ44563
Description	Formation Bar 2 - Antenna 1
Antenna Type	Dipole
Connector Type	U.FL Receptacle IPEX 20279-001E-03
Impedance	50 Ohms
Polarization	Linear - Vertical
Radiation Pattern	Omnidirectional
Frequency	2.44GHz
VSWR	< 2
Peak Gain*	2.9 dBi
Antenna PCB dimensions	16mm x 52mm x 1mm
Antenna element dimensions	~14mm x 47mm
PCB Material	FR4 TG $\geq$ 140

*Typical values when measured on 3mm thick KINGFA black plastic.

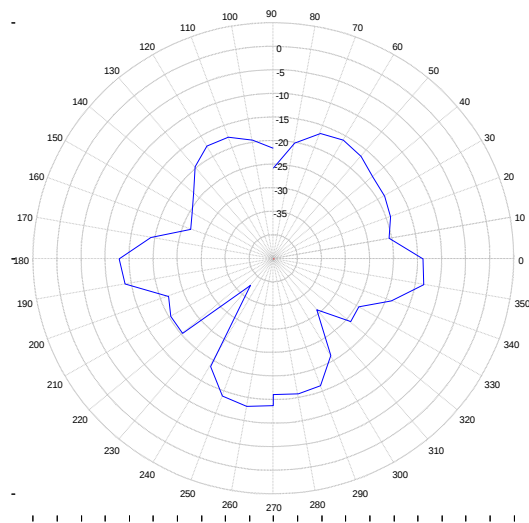
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Data Sheet



Name: .
Date/Time = 11/04/2024 13:49:38
Plot Scale: 5 dB/Div
Beamwidth: 273.2 Degrees

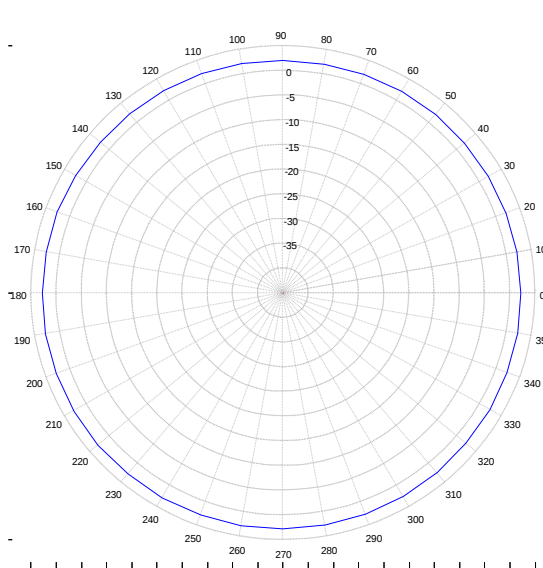
Frequency: 2449.723618090452 MHz
MAX dB= -11.75 @ 290 Deg.
MIN dB= -16.03 @ 50 Deg.
dB Min/Max Delta = 4.2871 dB



Name: .
Date/Time = 11/04/2024 13:50:25
Plot Scale: 5 dB/Div
Beamwidth: 17.56 Degrees

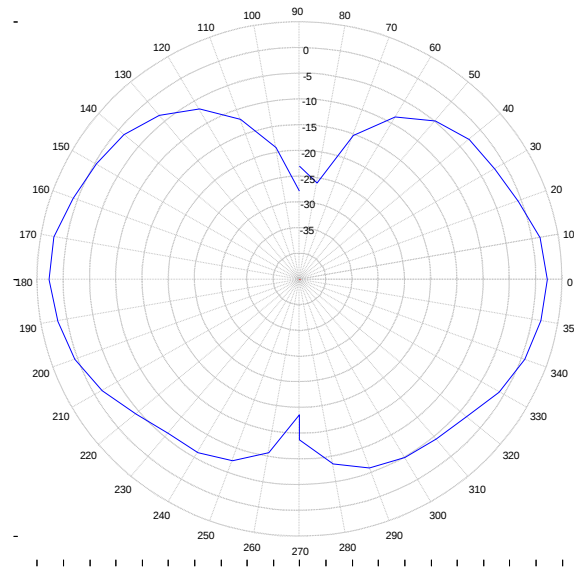
Frequency: 2449.723618090452 MHz
MAX dB= -12.84 @ -180 Deg.
MIN dB= -37.54 @ -130 Deg.
dB Min/Max Delta = 24.702 dB

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



Name: .
Date/Time = 11/04/2024 13:51:47
Plot Scale: 5 dB/Div
Beamwidth: 360 Degrees

Frequency: 2449.723618090452 MHz
MAX dB= 2.9550 @ 210 Deg.
MIN dB= 1.9959 @ 60 Deg.
dB Min/Max Delta = 0.9591 dB



Name: .
Date/Time = 11/04/2024 13:52:47
Plot Scale: 5 dB/Div
Beamwidth: 53.20 Degrees

Frequency: 2449.723618090452 MHz
MAX dB= 2.8107 @ -180 Deg.
MIN dB= -27.86 @ -270 Deg.
dB Min/Max Delta = 30.675 dB

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