Data Sheet

Bowers & Wilkins ZZ44830

Ground independent, horizontally polarized 5 GHz dipole antenna for WLAN applications.

Optimised for operation in free space.

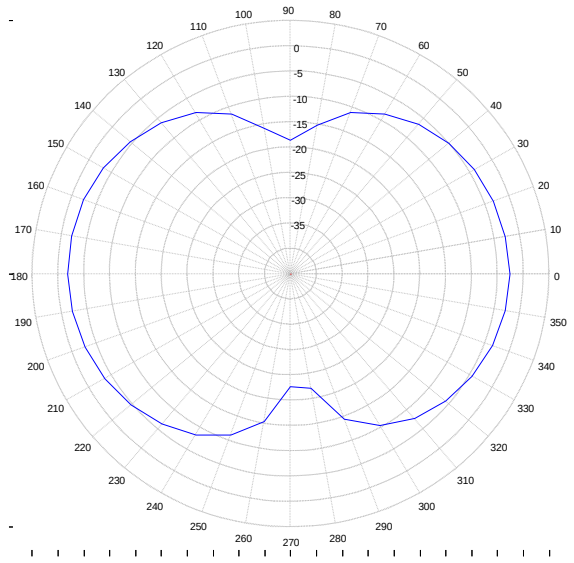
Specifications

Part Number	ZZ44830
Description	CWS Bass Antenna 5
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	5GHz
VSWR	< 2
Cable Length	340 ±3mm
Cable Loss	1 dB
Peak Gain*	2.8 dBi
Peak Gain with cable loss*	1.8 dBi
Antenna PCB dimensions	52mm x 52mm x 1mm
Antenna element dimensions	~16.5mm x 16.5mm
PCB Material	FR4 TG ≥ 140

*Typical values when measured in free space.

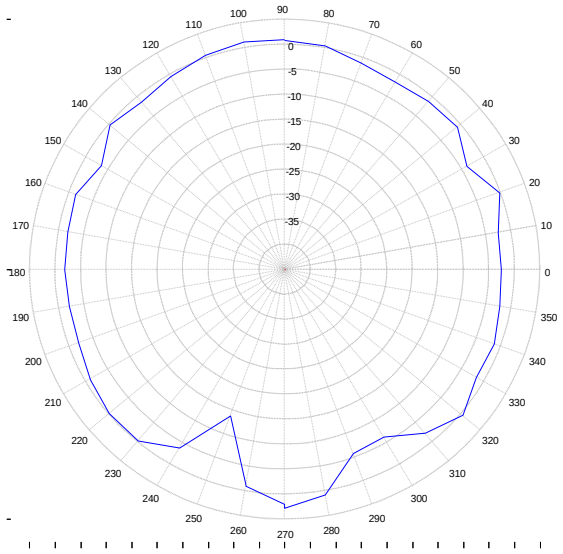
Data Sheet

RADTENNA LTD



Name: .
Date/Time = 02/10/2025 08:55:53
Plot Scale: 5 dB/Div
Beamwidth: 84.37 Degrees

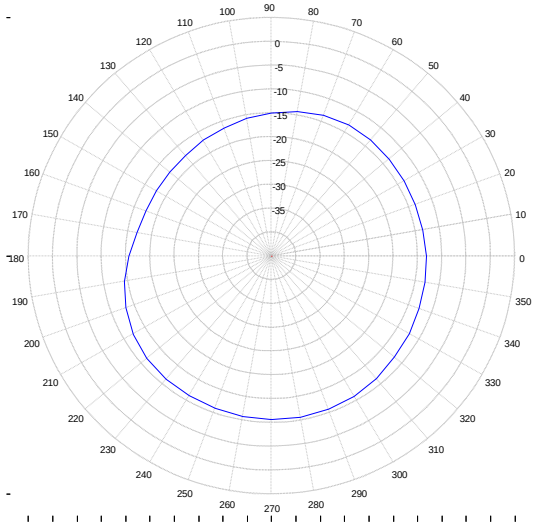
Frequency: 5250 MHz
MAX dB= -1.911 @ 180 Deg.
MIN dB= -22.70 @ 270 Deg.
dB Min/Max Delta = 20.795 dB



Name: .
Date/Time = 02/10/2025 08:54:42
Plot Scale: 5 dB/Div
Beamwidth: 28.83 Degrees

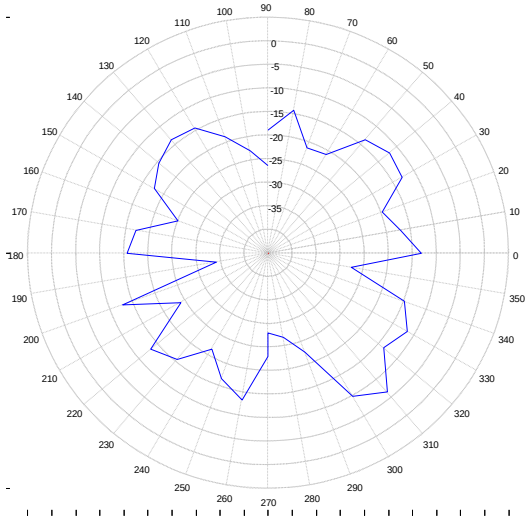
Frequency: 5250 MHz
MAX dB= 2.7876 @ -90 Deg.
MIN dB= -13.76 @ -110 Deg.
dB Min/Max Delta = 16.552 dB

5250MHz LEFT: AZIMUTH CUT @ 0° ELEVATION, RIGHT: ELEVATION CUT @0° AZIMUTH - HORIZONTAL POLARIZATION



Name: .
Date/Time = 02/10/2025 09:00:25
Plot Scale: 5 dB/Div
Beamwidth: 235.0 Degrees

Frequency: 5250 MHz
MAX dB= -10.66 @ 280 Deg.
MIN dB= -17.65 @ 150 Deg.
dB Min/Max Delta = 6.9957 dB



Name: .
Date/Time = 02/10/2025 08:57:15
Plot Scale: 5 dB/Div
Beamwidth: 8.788 Degrees

Frequency: 5250 MHz
MAX dB= -6.521 @ -50 Deg.
MIN dB= -34.00 @ -170 Deg.
dB Min/Max Delta = 27.483 dB

5200 MHz LEFT: AZIMUTH CUT @ 0° ELEVATION, RIGHT: ELEVATION CUT @0° AZIMUTH - VERTICAL POLARIZATION