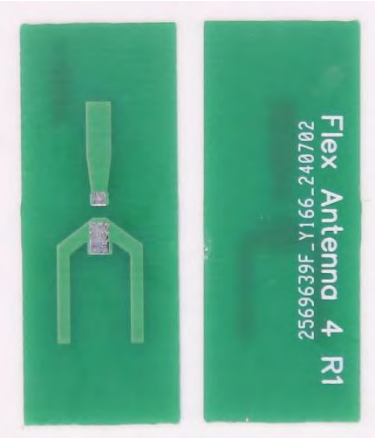
Data Sheet

Bowers & Wilkins ZZ45675

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

Optimised for operation in free space.



Specifications

Part Number	ZZ45675
Description	CWS Flex Antenna 4
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	5GHz
VSWR	< 2
Cable Length	124 ±3mm
Cable Loss	0.4 dB
Peak Gain*	1.9 dBi
Peak Gain with cable loss*	1.5 dBi
Antenna PCB dimensions	13mm x 33mm x 1mm
Antenna element dimensions	~7mm x 19.8mm
PCB Material	FR4 TG ≥ 140

*Typical values when measured in free space.

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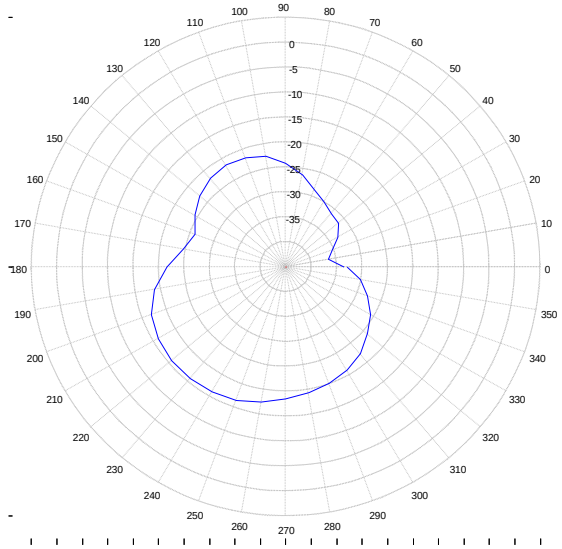
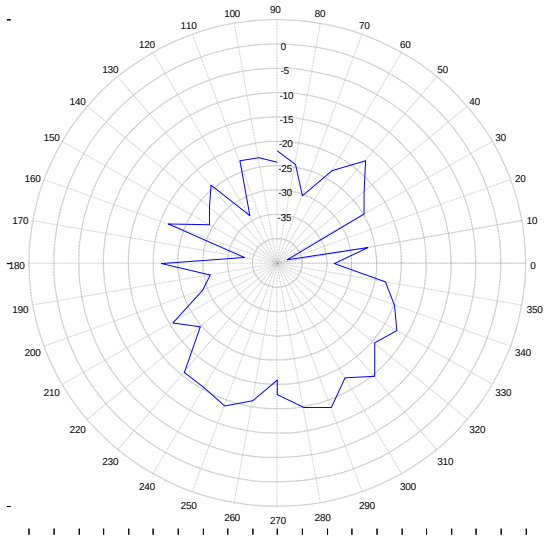


Name: .
Date/Time = 06/02/2024 14:00:02
Plot Scale: 5 dB/Div
Beamwidth: 82.31 Degrees

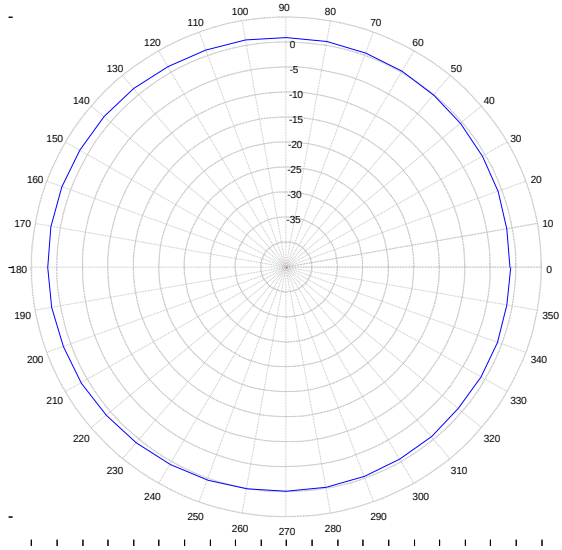
Frequency: 5250 MHz
MAX dB= -15.69 @ 230 Deg.
MIN dB= -36.57 @ 10 Deg.
dB Min/Max Delta = 20.884 dB



Name: .
Date/Time = 06/02/2024 14:01:14
Plot Scale: 5 dB/Div
Beamwidth: 15.03 Degrees

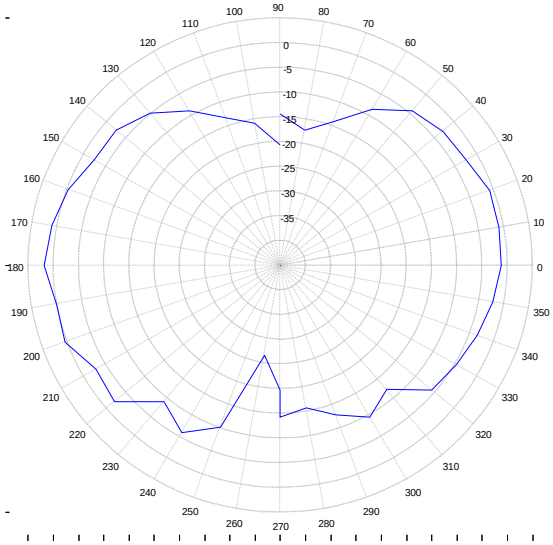
Frequency: 5250 MHz
MAX dB= -13.45 @ -70 Deg.
MIN dB= -42.88 @ 20 Deg.
dB Min/Max Delta = 29.425 dB

5200 MHZ LEFT: AZIMUTH CUT @ 0° ELEVATION, RIGHT: ELEVATION CUT @0° AZIMUTH - HORIZONTAL POLARIZATION



Name: .
Date/Time = 06/02/2024 14:02:07
Plot Scale: 5 dB/Div
Beamwidth: 319.5 Degrees

Frequency: 5250 MHz
MAX dB= 1.9095 @ 160 Deg.
MIN dB= -1.244 @ 0 Deg.
dB Min/Max Delta = 3.1541 dB



Name: .
Date/Time = 06/02/2024 14:03:13
Plot Scale: 5 dB/Div
Beamwidth: 49.25 Degrees

Frequency: 5250 MHz
MAX dB= 1.8048 @ -180 Deg.
MIN dB= -26.55 @ -100 Deg.
dB Min/Max Delta = 28.355 dB

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