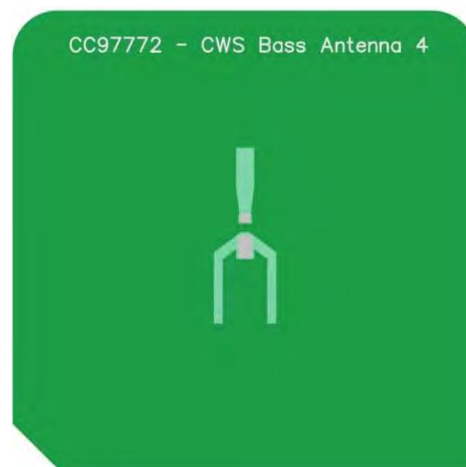


Ground independent, vertically polarized 5GHz dipole antenna for WLAN applications.

Optimised for operation in free space.



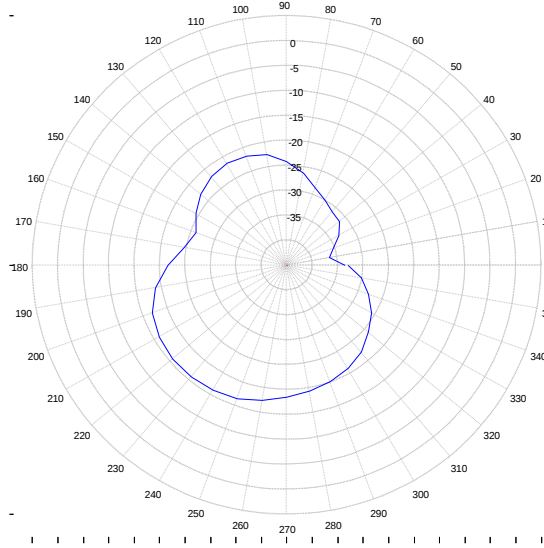
## Specifications

|                            |                          |
|----------------------------|--------------------------|
| Part Number                | ZZ44822                  |
| Description                | CWS Bass 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               | 430 ±5mm                 |
| Cable Loss                 | 1.3 dB                   |
| Peak Gain*                 | 1.9 dBi                  |
| Peak Gain with cable loss* | 0.6 dBi                  |
| Antenna PCB dimensions     | 52mm x 52mm x 1mm        |
| Antenna element dimensions | ~7.5mm x 20mm            |
| PCB Material               | FR4 TG ≥ 140             |

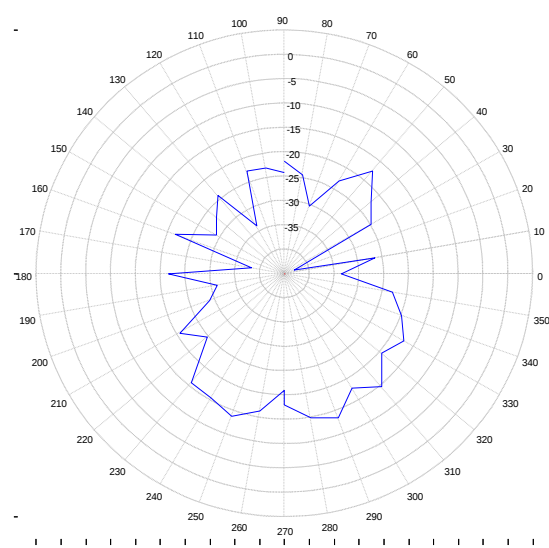
\*Typical values when measured in free space.

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

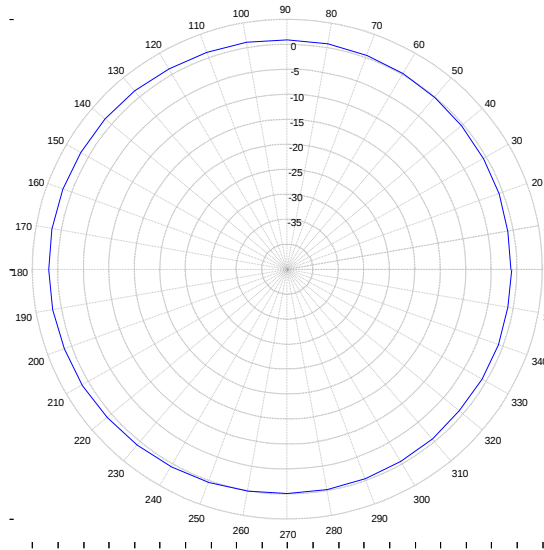


Name: .  
Date/Time = 06/02/2024 14:00:02  
Plot Scale: 5 dB/Div  
Beamwidth: 82.31 Degrees  
Frequency: 5250 MHz  
MAX dB= -15.69 @ 230 Deg.  
MIN dB= -36.57 @ 10 Deg.  
dB Min/Max Delta = 20.884 dB

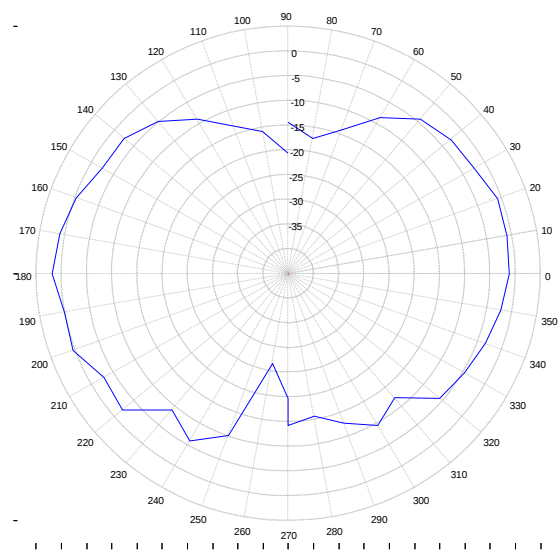


Name: .  
Date/Time = 06/02/2024 14:01:14  
Plot Scale: 5 dB/Div  
Beamwidth: 15.03 Degrees  
Frequency: 5250 MHz  
MAX dB= -13.45 @ -70 Deg.  
MIN dB= -42.88 @ 20 Deg.  
dB Min/Max Delta = 29.425 dB

## 5250 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

## 5250 MHz Left: Azimuth cut @ 0° Elevation, Right: Elevation cut @ 0° Azimuth - Vertical Polarization