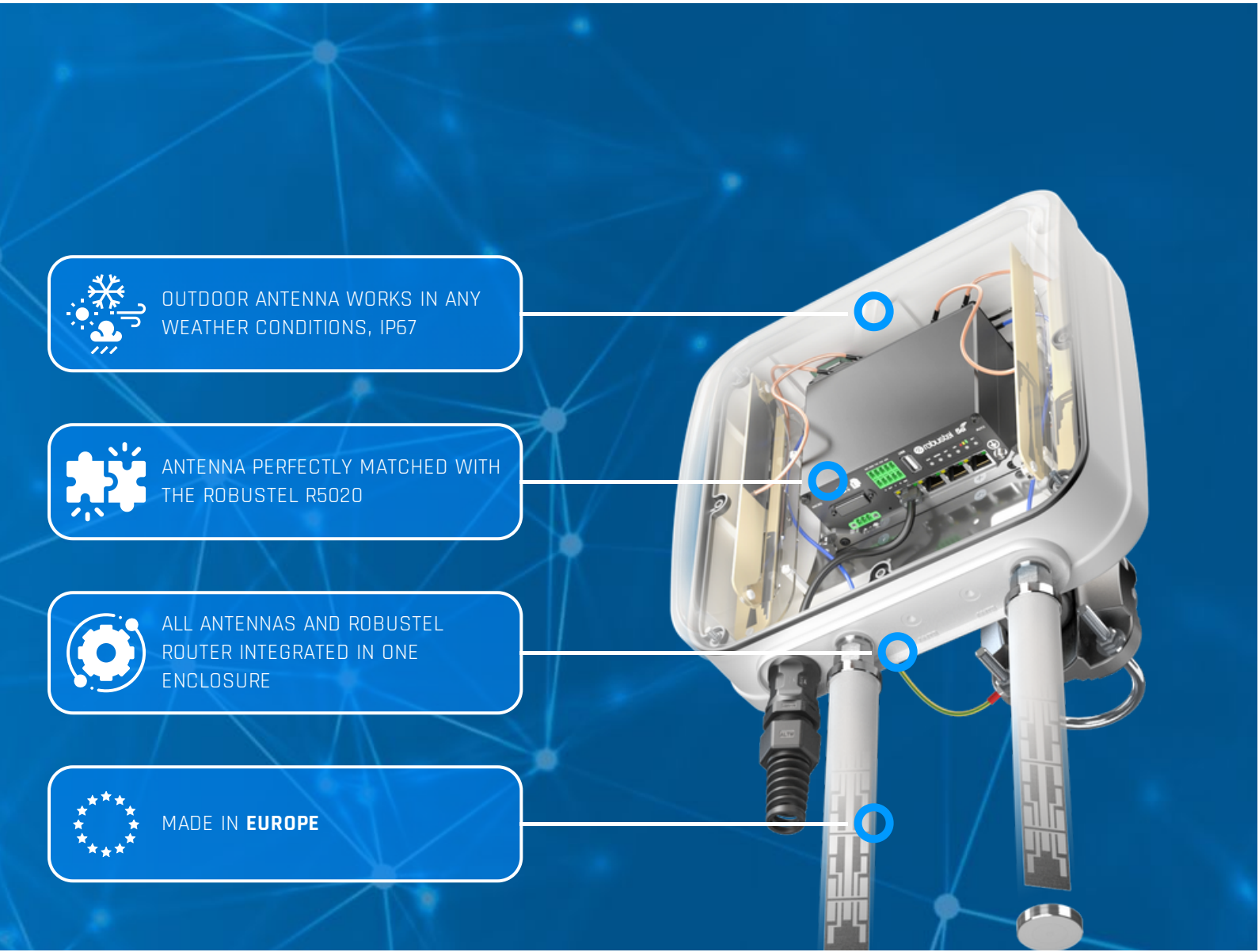
# QuMax Omni for Robustel R5020

## INTEGRATED MULTI-BAND 5G/LTE OMNI ANTENNA + WI-FI OMNI ANTENNA + GPS ANTENNA + PLACE TO INSTALL ROBUSTEL R5020 (ALL-IN-ONE)

QuMax Omni all-in-one antenna for Robustel R5020 router is a perfect outdoor device for mobile and fixed installations like industrial, public, CCTV, hotspots, yachts, boats, campers, RV etc. It has embedded omni 4*5G, 2*Wi-Fi and GPS antenna. If you use R5020 Lite with QuMax Omni antenna, you get an integrated complete solution with embedded router and multi band antennas in one enclosure.
Wi-Fi 6E support!
**Note!** This antenna comes in two different versions, depending on your router configuration. When you use R5020 supporting Power over Ethernet (PoE) please choose version "no PoE splitter'. For R5020 without PoE support, please choose "PoE splitter" version. Compatible Robustel part numbers available in the specification below.

5G | Wi Fi 6E | GPS | 600-6350MHz | 7 dBi | OMNI DIRECTIONAL | IP 67 | -40° TO +80°



# 5G / LTE SPECIFICATION

| | |
|---|---|
| FREQUENCY | 0.6 - 1.4 GHz<br>1.5 - 3.0 GHz<br>3.0 - 5.0 GHz<br>5.0 - 6.35 GHz |
| MAX. GAIN | 0.6 - 1.4 GHz : 2.6 dBi<br>1.5 - 3.0 GHz : 4.2 dBi<br>3.0 - 5.0 GHz : 4.4 dBi<br>5.0 - 6.35 GHz : 2.1 dBi |
| SUPPORTED LTE BANDS | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 17, 18, 19, 20, 22, 23, 24, 25, 26, 27, 28, 29, 30, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 46, 47, 48, 49, 52, 53, 54, 65, 66, 67, 68, 69, 70, 71, 85, 103, 106, 107, 111, 252, 253, 254, 255, 256 |
| SUPPORTED 5G BANDS | n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n24, n25, n26, n28, n29, n30, n34, n38, n39, n40, n41, n46, n47, n48, n53, n54, n65, n66, n67, n68, n70, n71, n77, n78, n79, n80, n81, n82, n83, n84, n85, n86, n89, n90, n95, n97, n98, n99, n100, n101, n105, n106, n250, n251, n252, n253, n254, n255, n256 |
| VSWR | <2.00, max <3.00 |
| BEAMWIDTH | 360°/35° +/- 5° |
| POLARIZATION | Vertical |
| IMPEDANCE | 50 Ω |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# WI-FI SPECIFICATION

| | |
|---|---|
| FREQUENCY | 2.4 - 2.5 GHz<br>5.0 - 7.2 GHz |
| MAX. GAIN | 2.4 - 2.5 GHz: 6 dBi<br>5.0 - 6.0 GHz: 7.5 dBi |
| VSWR | <1.70, max <2.00 |
| BEAMWIDTH | 360°/25° +/- 5° |
| POLARIZATION | Vertical |
| IMPEDANCE | 50 Ω |

# MECHANICAL SPECIFICATION

| | |
|---|---|
| MATERIAL | ASA, aluminum, PTFE, Fiberglass |
| INGRESS PROTECTION | IP67 |
| CONNECTOR TYPE | RJ45 |
| DIMENSIONS | 272 x 276 x 96 mm<br>10.71 x 10.87 x 3.78 inch |
| WEIGHT | 1.8 kg<br>3.97 lbs |
| OPERATING TEMPERATURE | From -40°C to 75°C<br>From -40°F to 167°F |
| ENCLOSURE RECOMMENDED TIGHTENING TORQUE | 0.6 - 0.8 Nm |


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# MOUNTING KIT

| | |
|---|---|
| DIMENSIONS | 9.9 x 10.5 x 14.8 cm<br>3.9 x 4.13 x 5.83 inch |
| REGULATION RANGE | +/- 30° |
| MAST DIAMETER RANGE | 25 - 66mm<br>0.98-2.60 inch |
| MATERIAL | Polyamide with fiberglass + galvanized steel U-Bolts |
| WEIGHT | 0.87kg |
| MOUNTING PLACE | Wall or mast or ceiling |

# COMPATIBLE PART NUMBERS

| | | |
|---|---|---|
| NO POE SPLITTER | R5020-5G-A09GL-B | B064802 |
| POE SPLITTER | R5020-5G-A09GL-A | B064803 |


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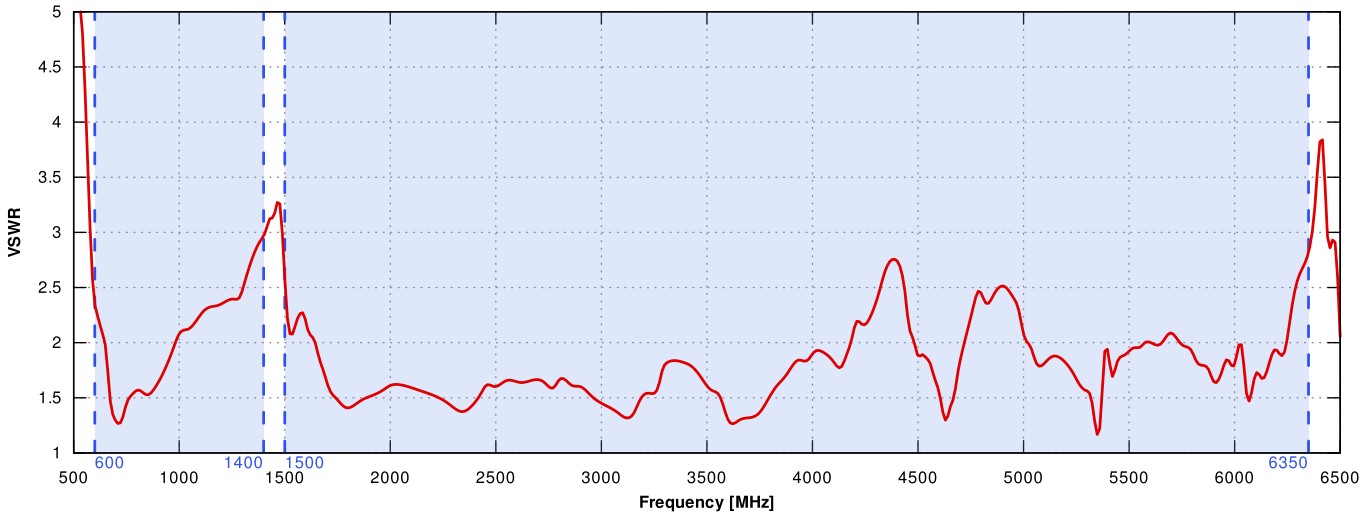
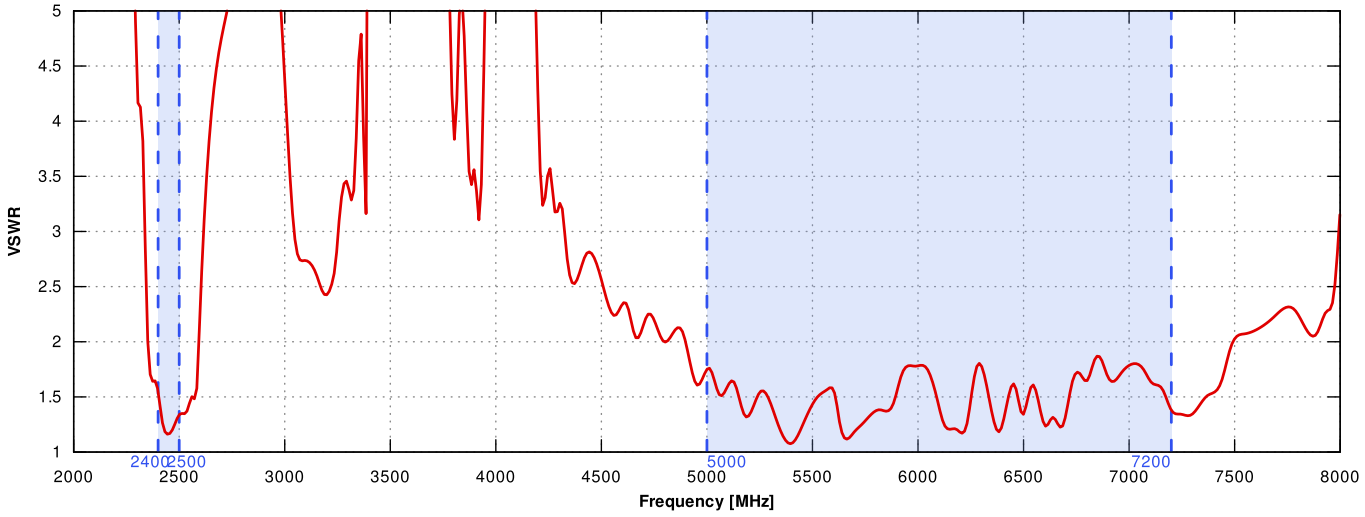
# PLOTS

## 5G/LTE VSWR




## WI-FI VSWR



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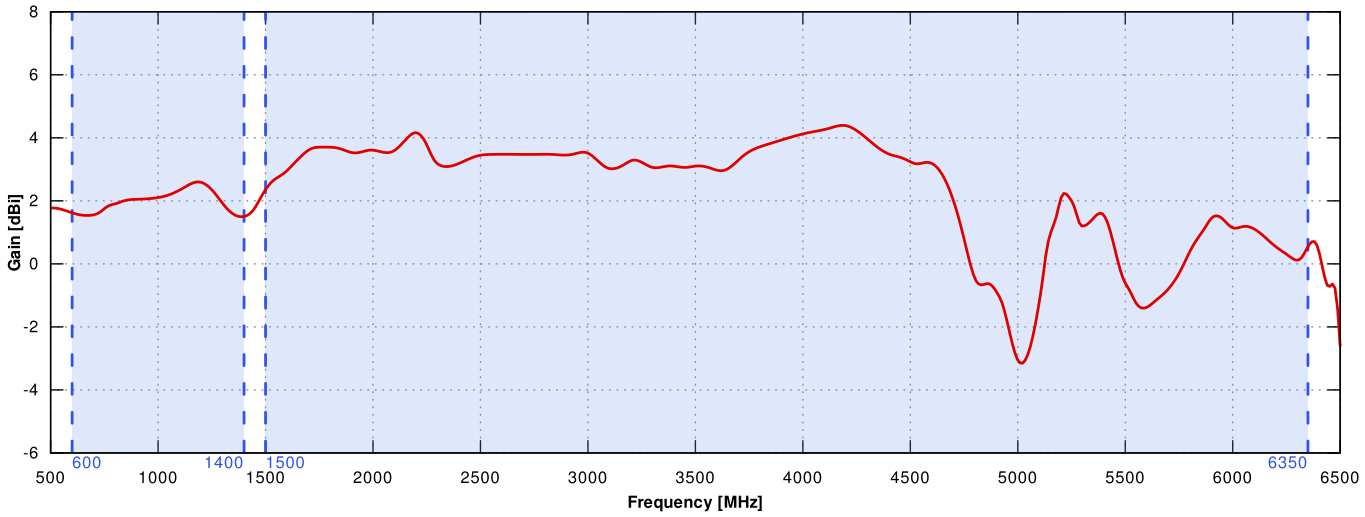
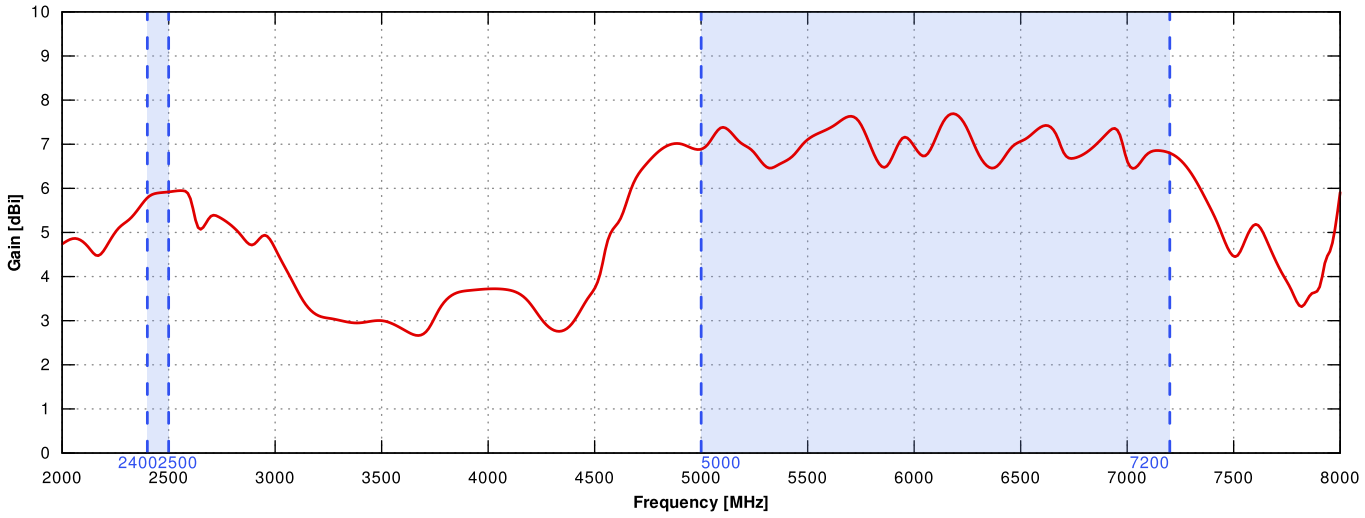
## 5G/LTE Gain




## Wi-Fi Gain





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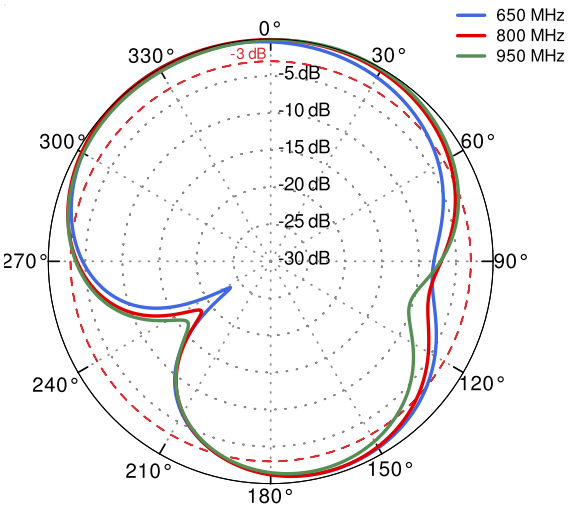
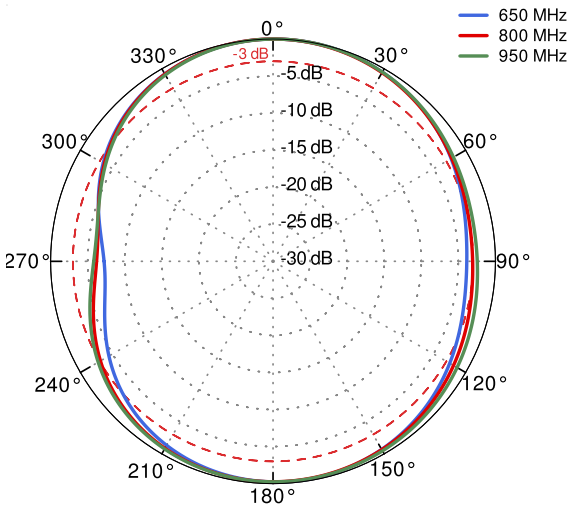
## 5G/LTE from 650MHz to 950MHz

ELEVATION

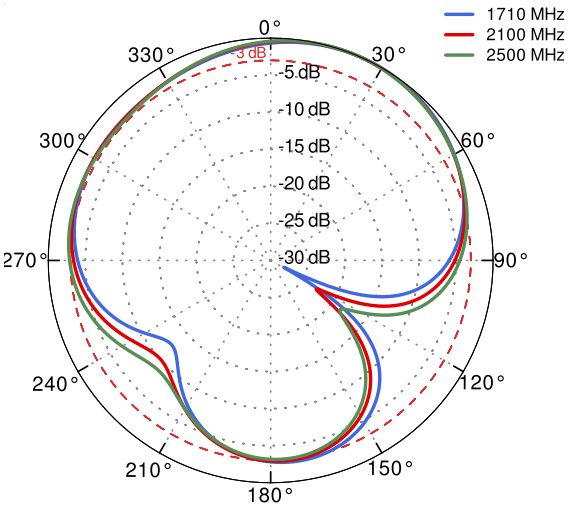



AZIMUTH




## 5G/LTE from 1.71GHz to 2.5GHz

ELEVATION

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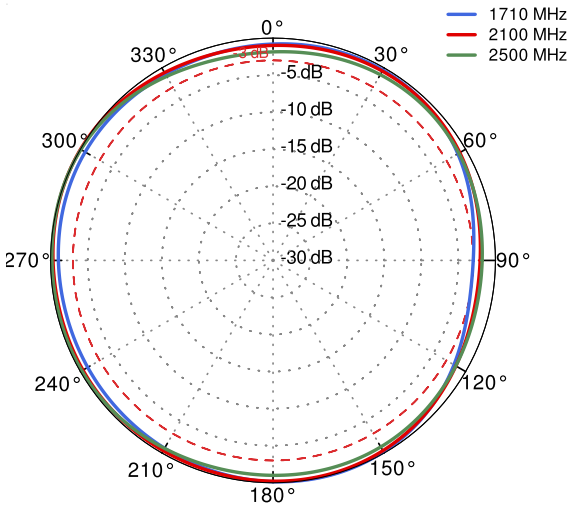



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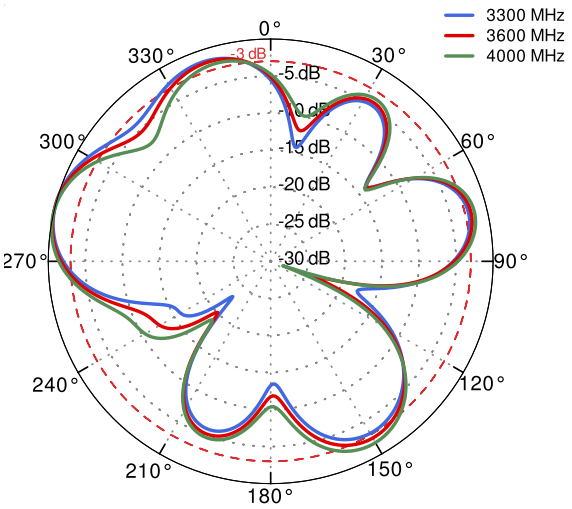
## 5G/LTE from 3.3GHz to 4.0GHz

ELEVATION

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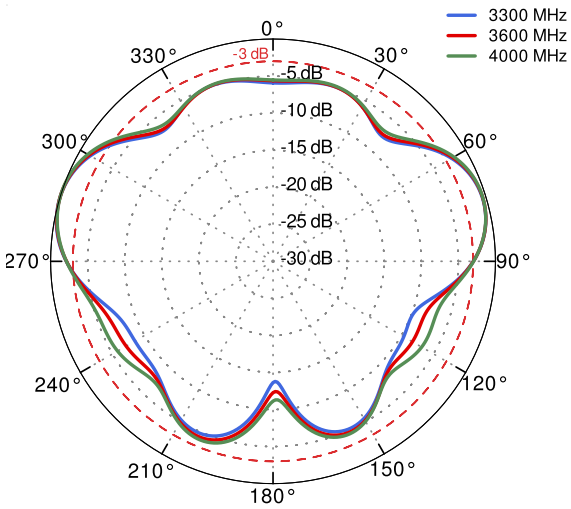
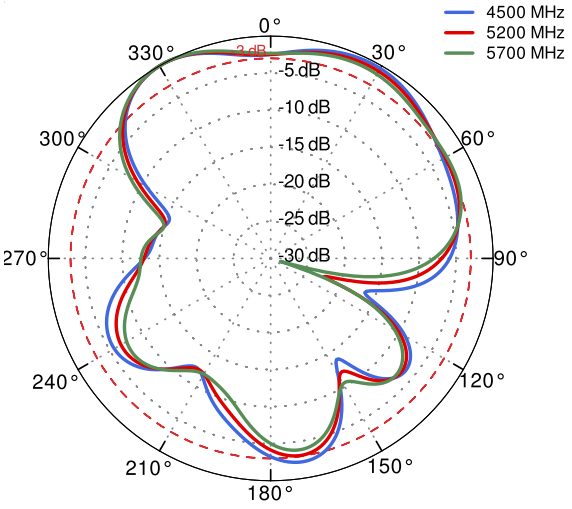



## 5G/LTE from 4.5GHz to 5.5GHz

ELEVATION

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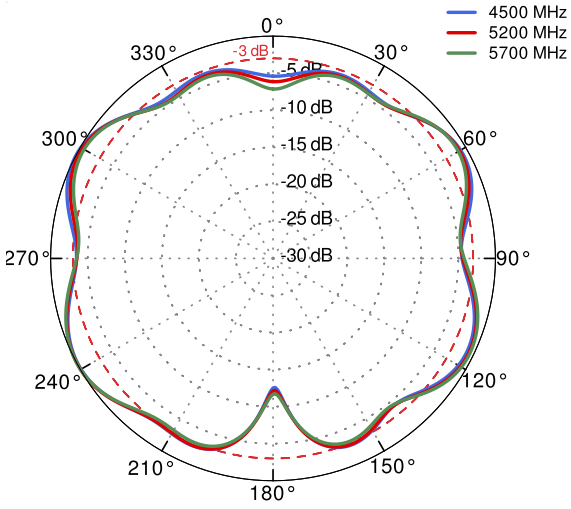




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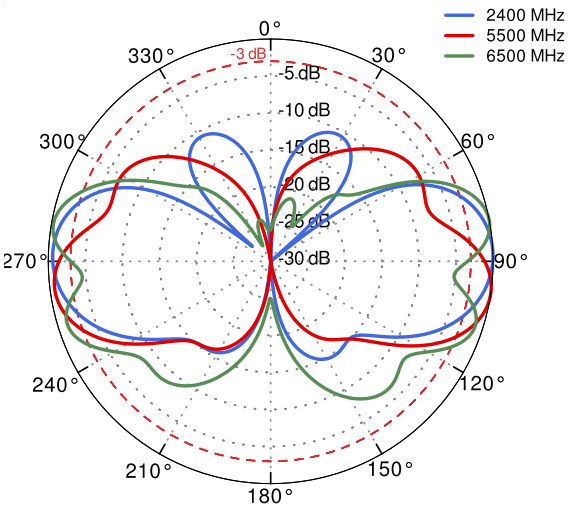
## Wi-Fi 2.4GHz and 5GHz and 6GHz

ELEVATION

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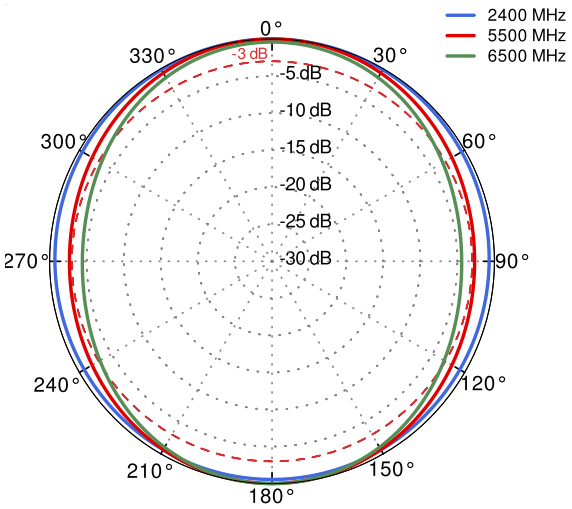


# DIMENSIONS




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