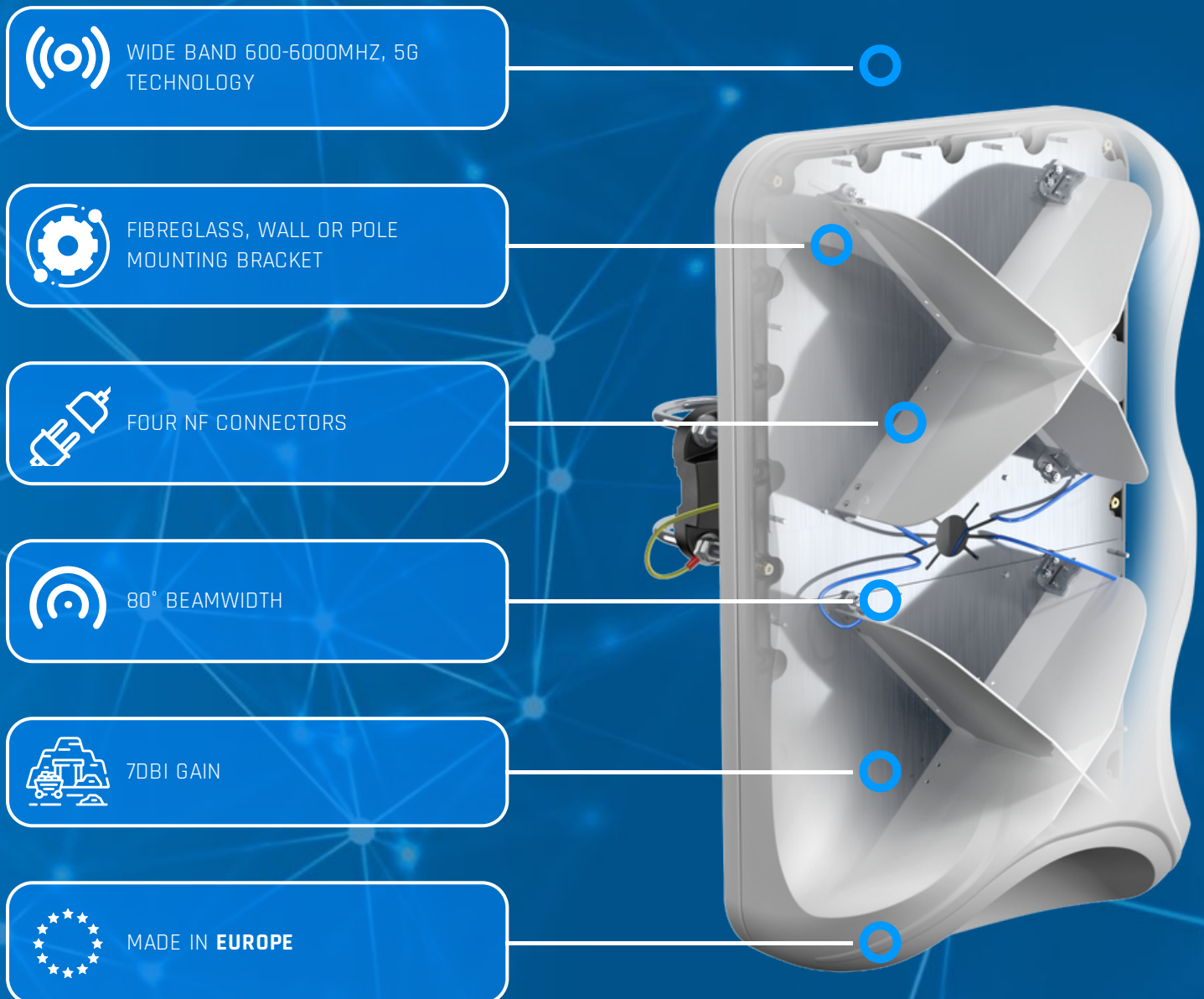
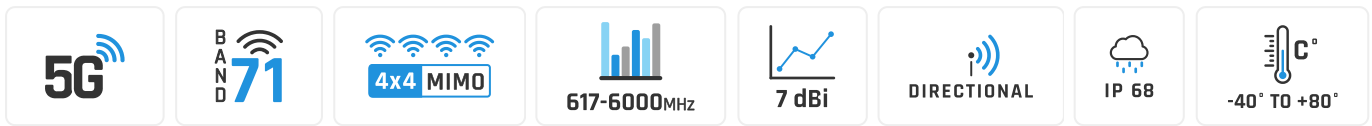


# QuPanel 5G/LTE Global MIMO 4x4 Nf

## Directional ultra wideband 5G/LTE MIMO 4x4 antenna with integrated Nf connectors

QuPanel **5G**/LTE Nf directional MIMO 4x4 is ultra wideband 5G outdoor antenna. It's primary designed for LTE/5G/3G/2G devices which require high efficiency connections. The antenna covers many LTE bands including the new Extended LTE **Band 71** and frequencies: **600 - 6000MHz**. The mounting bracket allows the antenna to be installed on the pole or on the wall, as the client antenna to receive Internet by LTE/5G/3G/2G. It's ideal solution to use with all industrial and domestic MIMO 4x4 5G modems and routers. Integrated Nf connectors.



## 5G / LTE ANTENNA SPECIFICATION

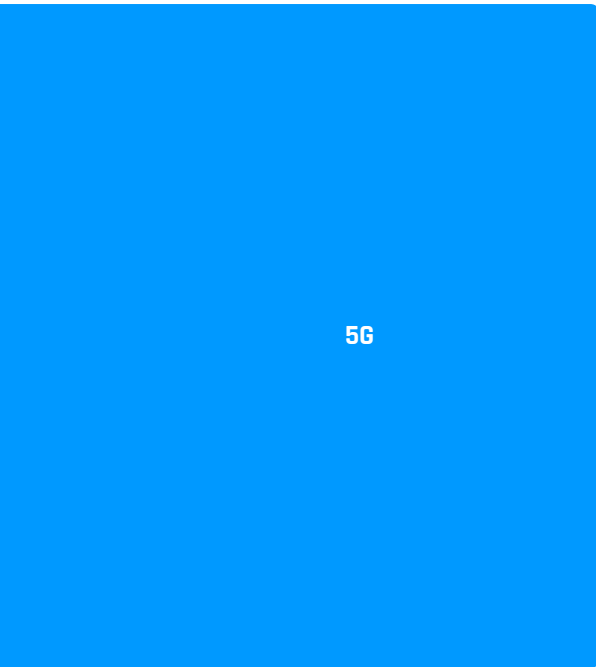
|                            |  |
|----------------------------|--|
| <b>FREQUENCY</b>           | 617 - 960 MHz<br>1.7 - 2.7 GHz<br>3.3 - 4.6 GHz<br>4.7 - 6.0 GHz   |
| <b>GAIN</b>                | 617 - 960 MHz : 6 dBi<br>1.7 - 2.7 GHz : 7 dBi<br>3.3 - 4.6 GHz : 7 dBi<br>4.7 - 6.0 GHz : 5.5dBi  |
| <b>SUPPORTED LTE BANDS</b> | 1, 2, 3, 4, 5, 7, 8, 9, 10, 12, 13, 14, 17, 18, 19, 20, 22, 25, 26, 27, 28, 29, 30, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 46, 47, 48, 49, 52, 53, 65, 66, 67, 68, 69, 71, 85, 103, 106                                       |
| <b>SUPPORTED 5G BANDS</b>  | n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n26, n28, n29, n30, n34, n38, n39, n40, n41, n46, n47, n48, n53, n65, n66, n67, n71, n77, n78, n79, n80, n81, n82, n83, n84, n85, n86, n89, n90, n95, n97, n98, n100, n101, n256 |
| <b>VSWR</b>                | <2.00, max <3.00   |
| <b>BEAMWIDTH</b>           | 80°/80° ±15°   |
| <b>POLARIZATION</b>        | X (±45degrees)   |
| <b>IMPEDANCE</b>           | 50 Ω   |

## MECHANICAL SPECIFICATION

|                              |   |
|------------------------------|---|
| <b>MATERIALS</b>             | ABS, aluminum, PTFE, fiberglass                       |
| <b>CONNECTOR TYPE</b>        | Nf  |
| <b>INGRESS PROTECTION</b>    | IP68  |
| <b>DIMENSIONS</b>            | 486.0 x 292.2 x 105.6 mm<br>19.13 x 11.50 x 4.16 inch |
| <b>WEIGHT</b>                | 2.8 kg<br>6.17 lbs                                    |
| <b>OPERATING TEMPERATURE</b> | From -40°C to 80°C<br>From -40°F to 176°F             |
| <b>MAST DIAMETER</b>         | 25-66mm<br>0.98-2.60 inch                             |

## FREQUENCY BANDS

|                 |            |    |    |    |    |    |     |             |  |
|-----------------|------------|----|----|----|----|----|-----|-------------|--|
| <b>LTE / 4G</b> | 1          | 2  | 3  | 4  | 5  | 7  | 8   | 6000<br>MHZ |  |
|                 | 9          | 10 | 12 | 13 | 14 | 17 | 18  |             |  |
|                 | 19         | 20 | 22 | 25 | 26 | 27 | 28  |             |  |
|                 | 29         | 30 | 33 | 34 | 35 | 36 | 37  |             |  |
|                 | 38         | 39 | 40 | 41 | 42 | 43 | 44  |             |  |
|                 | 45         | 47 | 48 | 49 | 52 | 53 | 65  |             |  |
|                 | 66         | 67 | 68 | 69 | 71 | 85 | 103 |             |  |
|                 | 106        |    |    |    |    |    |     |             |  |
|                 | 617<br>MHZ |    |    |    |    |    |     |             |  |



|         |     |     |      |      |      |     |     |          |
|---------|-----|-----|------|------|------|-----|-----|----------|
|         | n1  | n2  | n3   | n5   | n7   | n8  | n12 |          |
|         | n13 | n14 | n18  | n20  | n25  | n26 | n28 |          |
|         | n29 | n30 | n34  | n38  | n39  | n40 | n41 |          |
| 617 MHz | n46 | n47 | n48  | n53  | n65  | n66 | n67 | 6000 MHz |
|         | n71 | n77 | n78  | n79  | n80  | n81 | n82 |          |
|         | n83 | n84 | n85  | n86  | n89  | n90 | n95 |          |
|         | n97 | n98 | n100 | n101 | n256 |     |     |          |

## COMPATIBLE ROUTERS

VARIANT: AP5G4-GN

- TELTONIKA**
- ROBUSTEL**
- CISCO**
- COMSET**
- CUDY**
- DIGI**
- EE 5G (5GEE)**
- ERICSSON (CRADLEPOINT)**

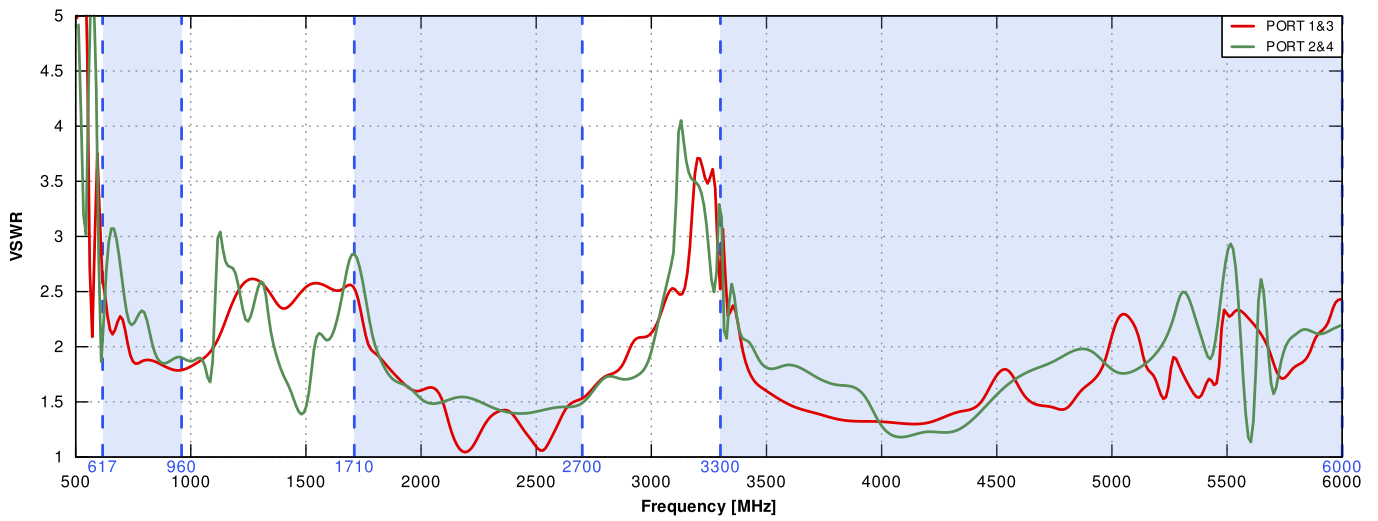
- CALYX, RUTC42, RUTC50, RUTM30, RUTM31, RUTM51, RUTM54, RUTM55, RUTM56, RUTM59, RUTX12, RUTX14, RUTX50, TRB500, TRB501
- EG5120, EG5200, R2000, R5010, R5020, R5020 Lite
- CG418-E, CG522-E, MG41E, MG51E, MG52E
- CM550W, CM580W, CM685VX, CM770W-6, CM950W
- P5
- EX50, IX25, IX40, TX54 LTE-Advanced, TX64
- Smart 5G Hub
- E300, E3000, IBR1700, R1900, R2400, R980, W1850, W2005, W4005

|                                  |   |
|----------------------------------|---|
| <b>FIBOCOM</b>                   | FM150-AE, FM150-NA, FM160-EAU, FM160-JK, FM160-NA, FM160-PN, FM190-GL, FM190W-GL, NL952-EAU, NL952-NA   |
| <b>FORTINET</b>                  | FEX-311F, FEX-311F  |
| <b>FOUR-FAITH</b>                | 5G Industrial CPE F-NR200, 5G Industrial Router F-NR100, 5G SIM WiFi Router F-NR120, 5G Smart Light Pole Gateway F-G300, 5G WiFi Router with SIM Card Slot F-NR130, Smart Light Pole Gateway F-G310 |
| <b>MILESIGHT</b>                 | UF31, UR75  |
| <b>PEPLINK</b>                   | Balance 310 5G, Balance 310 fiber 5G, BR1 Mini 5G, BR1 Pro (CAT-20), BR1 Pro CAT-20, BR2 PRO, MAX BR1 Pro 5G, MAX HD2, MAX HD2 Mini, MAX Transit, MAX Transit Duo Pro, UBR Plus                     |
| <b>PERLE</b>                     | IRG7440   |
| <b>PROROUTE</b>                  | H685 WRT M2M 5G Router, H900 5G Router  |
| <b>QUECTEL</b>                   | 5G RM500Q-AE, 5G RM500Q-GL, 5G RM502Q-GL, 5G RM505Q-AE, 5G RM510Q-GL, 5G RM520N-EU, 5G RM520N-GL, 5G RM521F-GL, 5G RM530N-GL, LTE-A EM160R-GL   |
| <b>ROBUSTEL</b>                  | EG5120, EG5200, R2000, R5010, R5020, R5020 Lite   |
| <b>SEMTECH (SIERRA WIRELESS)</b> | AirLink MG90 5G, AirLink XR60, EM9190, EM9191, EM9291, EM9293   |
| <b>SIEMENS</b>                   | 6GK5853-2EA00-2DA1, 6GK5856-2EA00-3AA1, 6GK5856-2EA00-3DA1  |
| <b>SIMCOM</b>                    | A8200E, SIM8202X-M2, SIM8260G-M2, SIM8262X-M2 Series, SIM8380G-M2   |
| <b>TELIT CINTERION</b>           | FN980/FN980m, FN990A40/A28, FN990B34/B40, LM960A18 Series, MV31, MV32   |
| <b>TELTONIKA</b>                 | CALYX, RUTC42, RUTC50, RUTM30, RUTM31, RUTM51, RUTM54, RUTM55, RUTM56, RUTM59, RUTX12, RUTX14, RUTX50, TRB500, TRB501   |

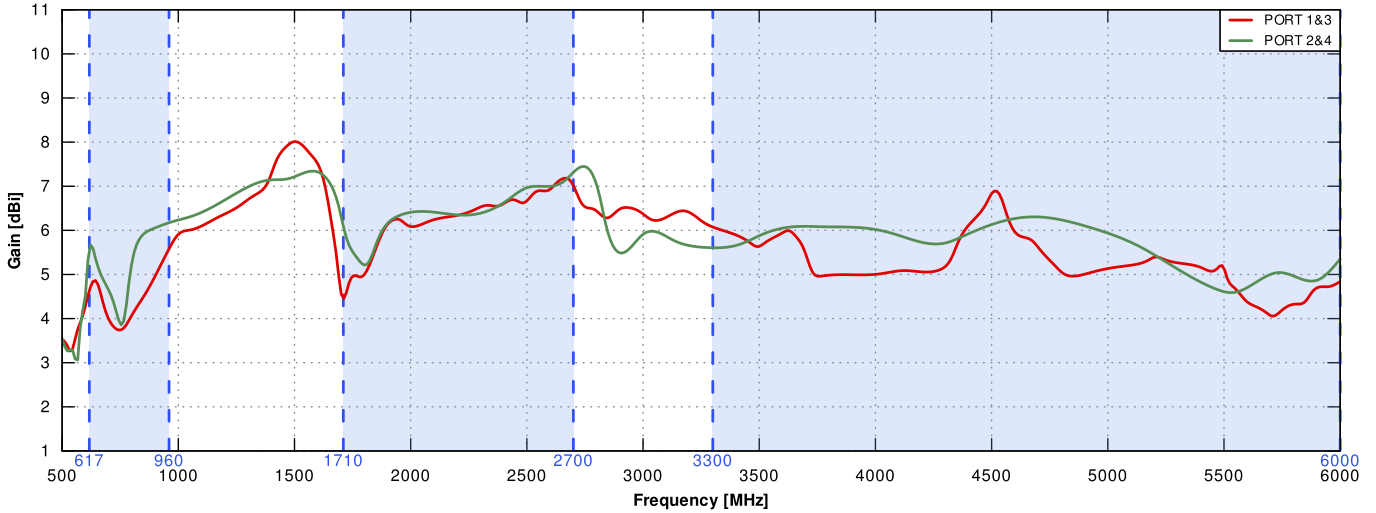
|                |   |
|----------------|---|
| <b>WAVETEL</b> | W4600-NR 5G, W4A00 5G, WNR320 5G, WNR340 5G |
| <b>WLINK</b>   | G230, G530, G530                            |
| <b>ZTE</b>     | ZM9020                                      |
| <b>ZYXEL</b>   | Nebula FWA510, NR5103                       |
| <b>OTHER</b>   | 4 * SMA                                     |

## PLOTS

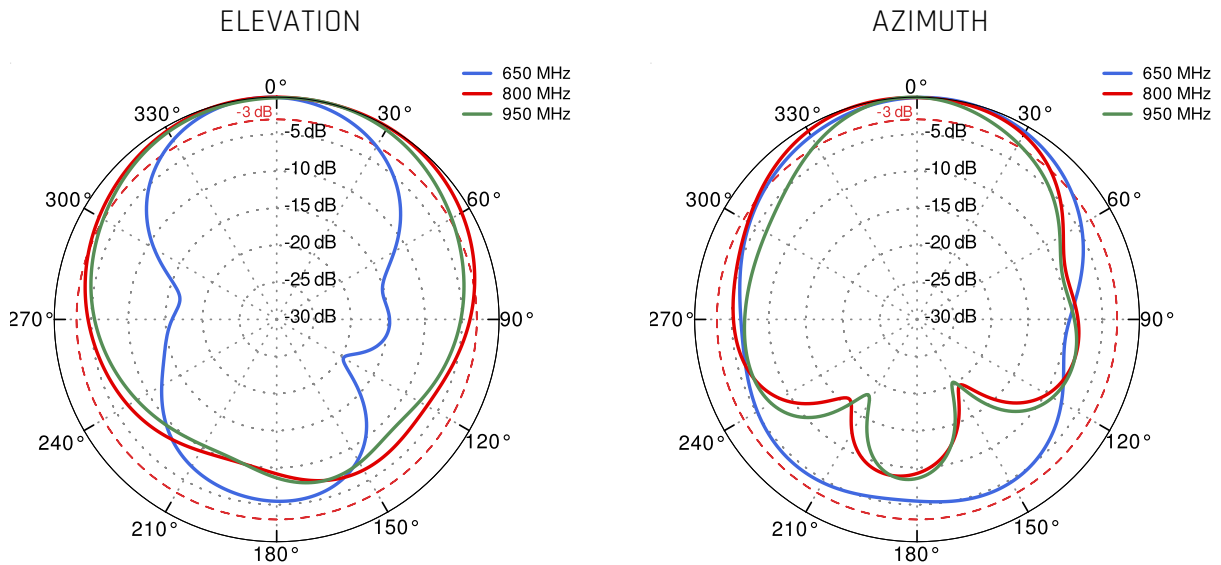
### VSWR



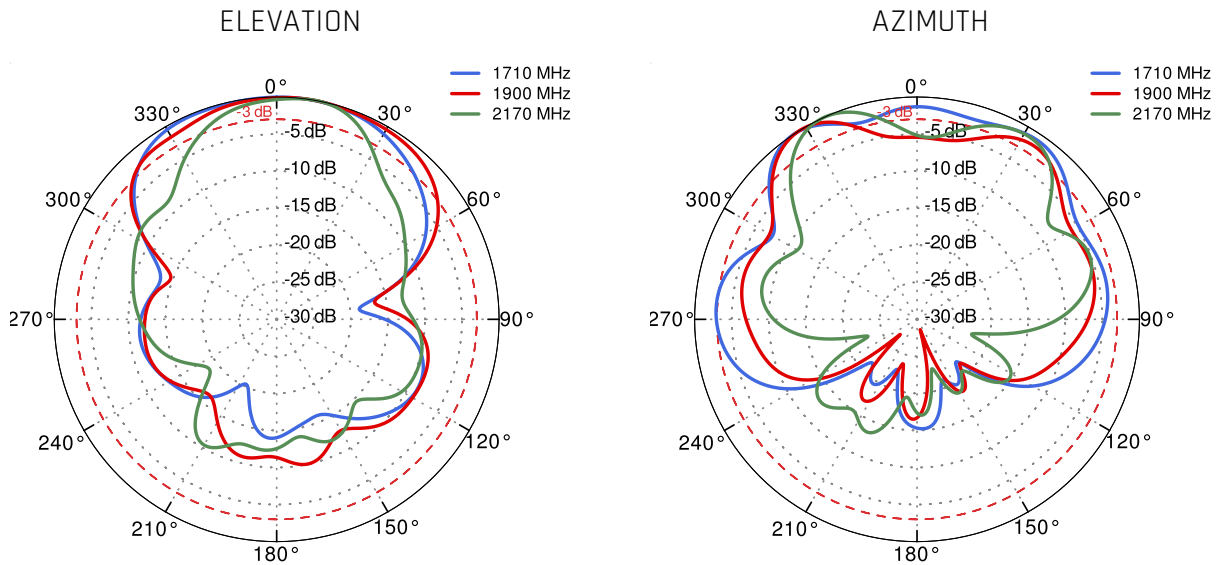
Gain



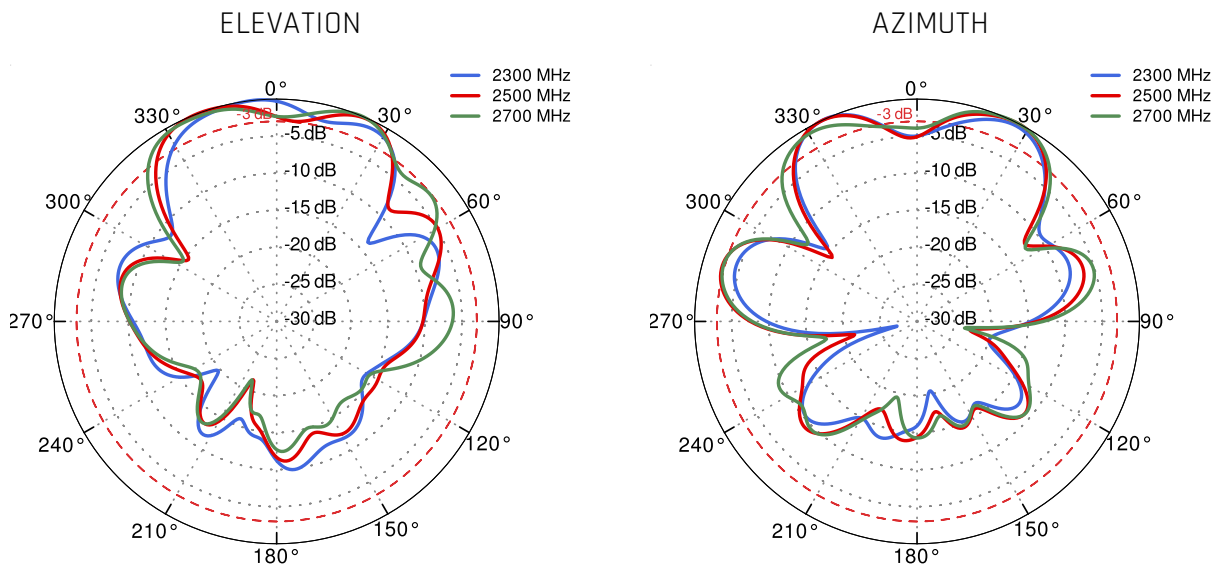
PORT 1 - 5G/LTE from 650MHz to 950MHz



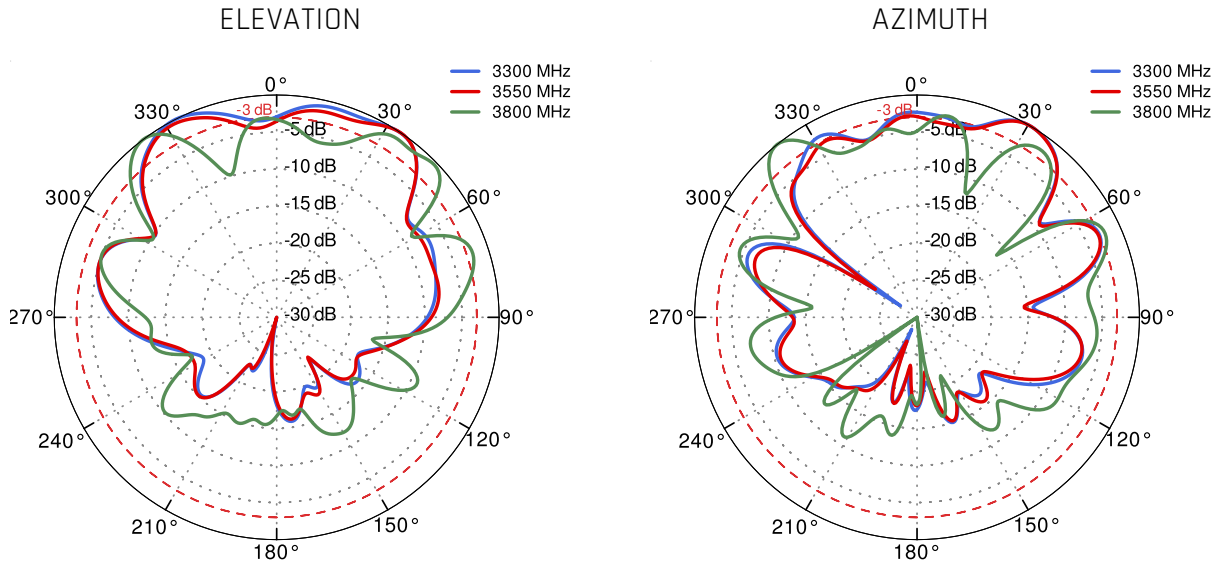
PORT 1 - 5G/LTE from 1.71GHz to 2.17GHz



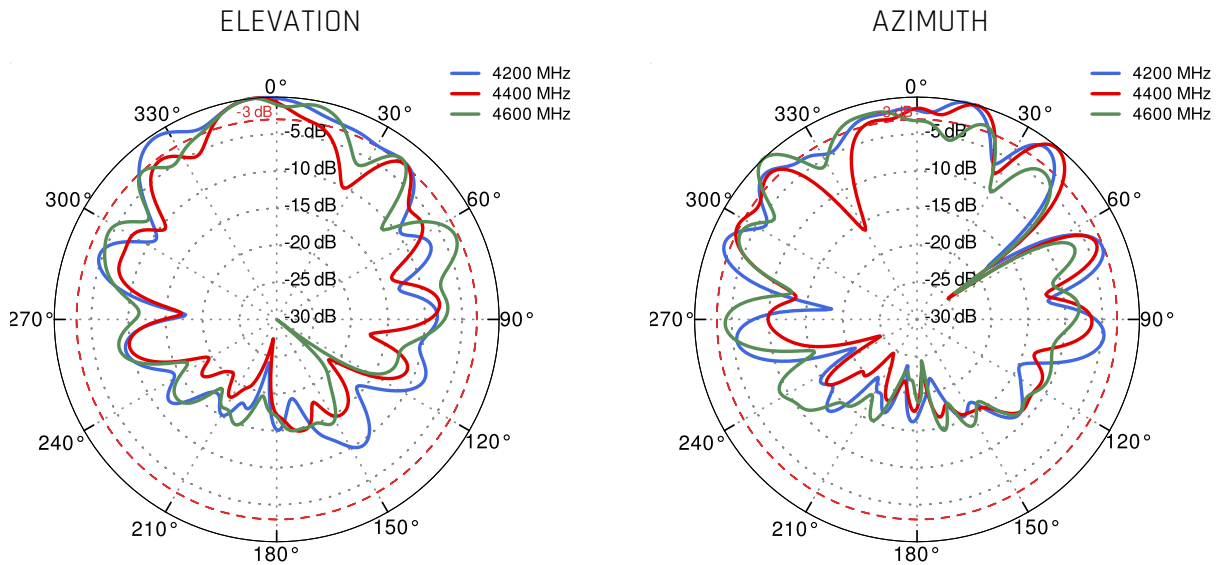
PORT 1 - 5G/LTE from 2.3GHz to 2.7GHz

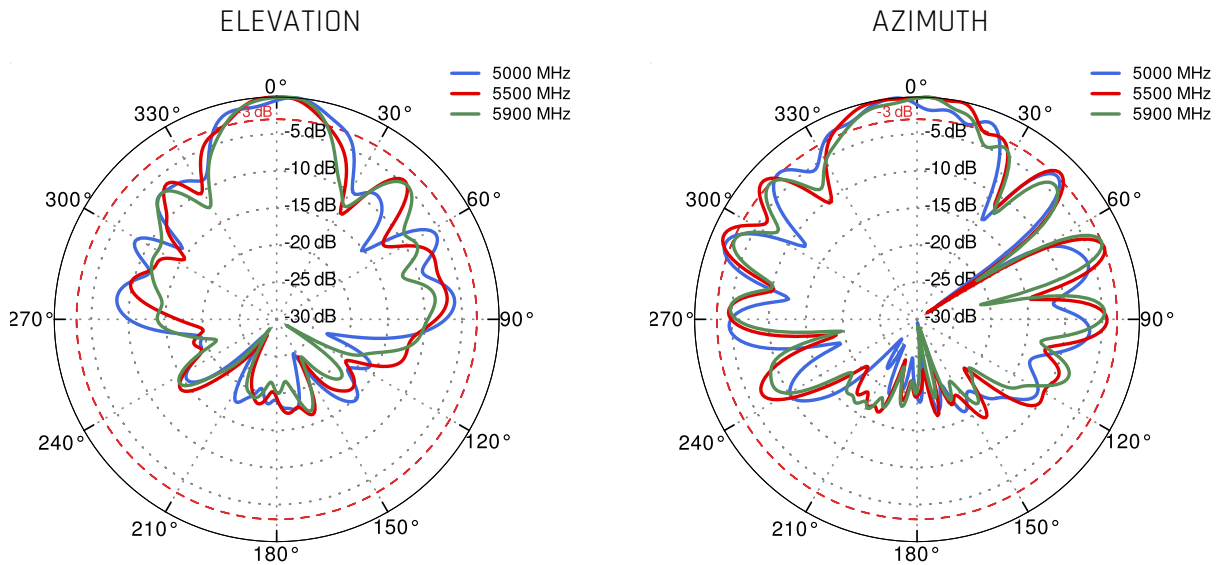
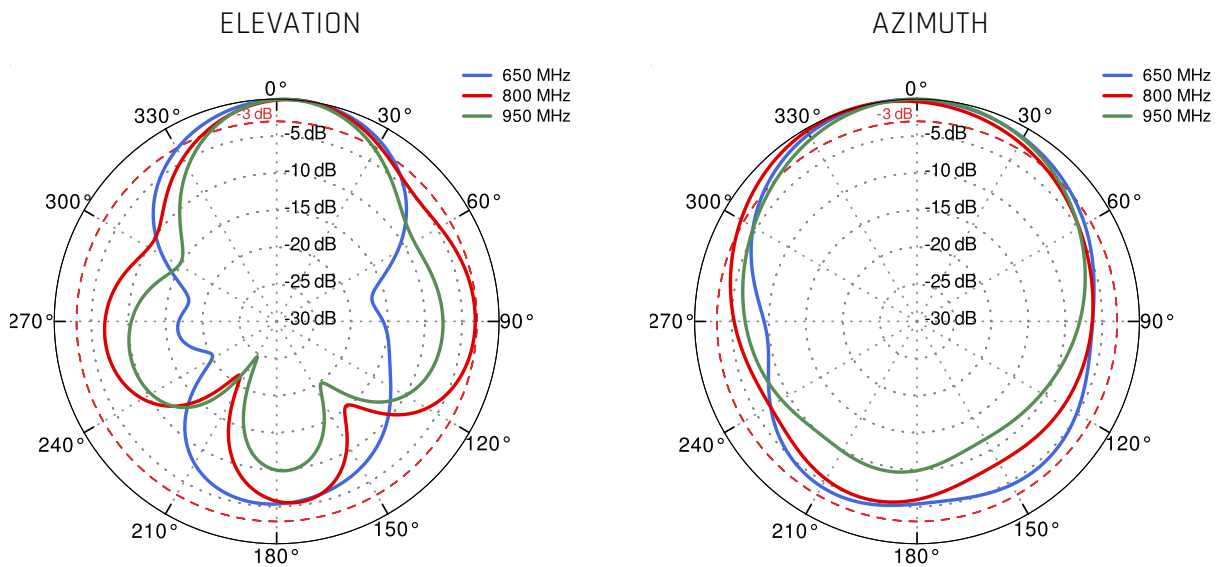


PORT 1 - 5G/LTE from 3.3GHz to 3.8GHz

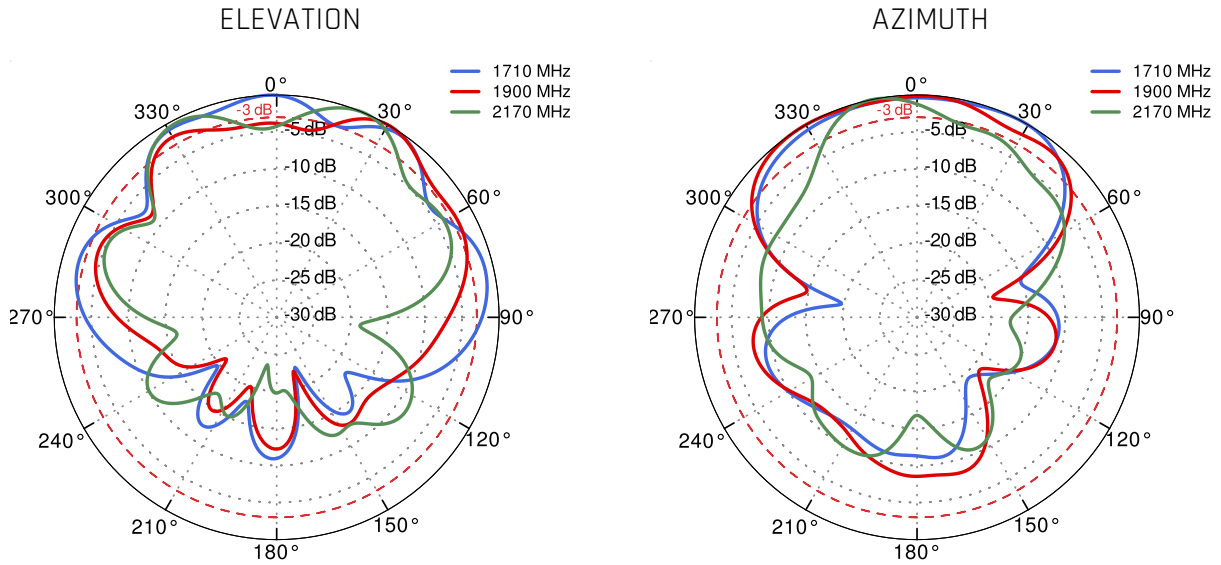


PORT 1 - 5G/LTE from 4.2GHz to 4.6GHz

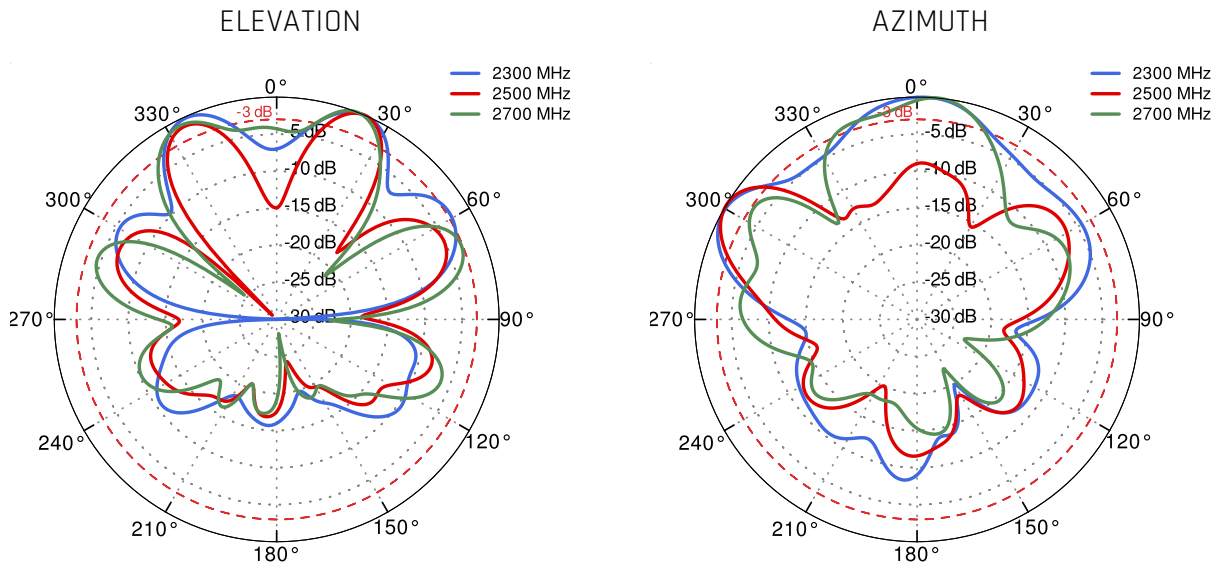


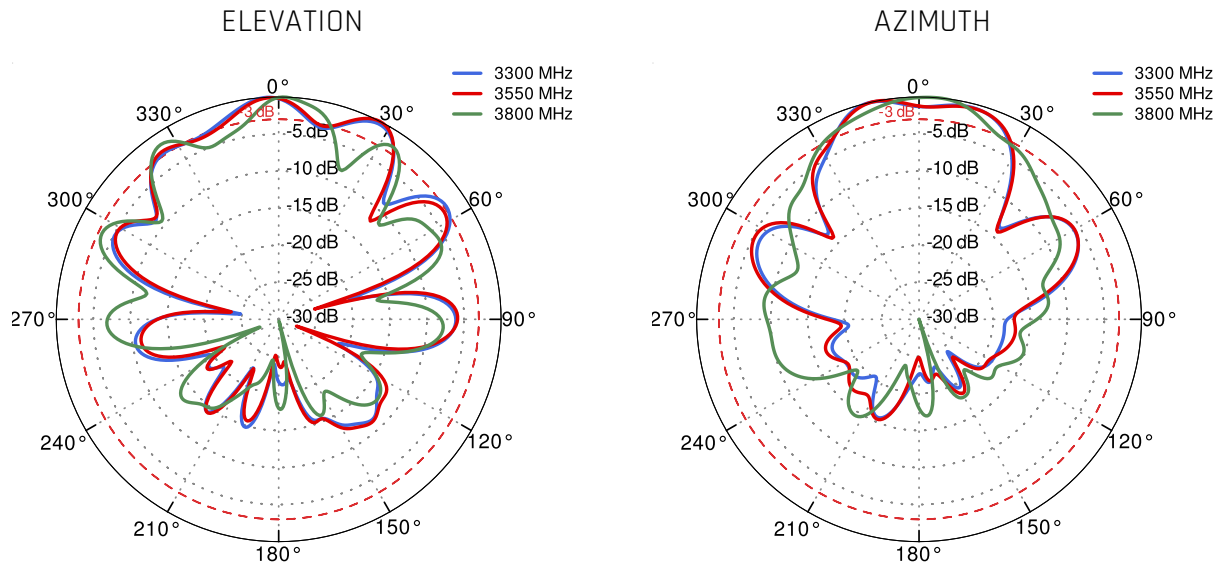
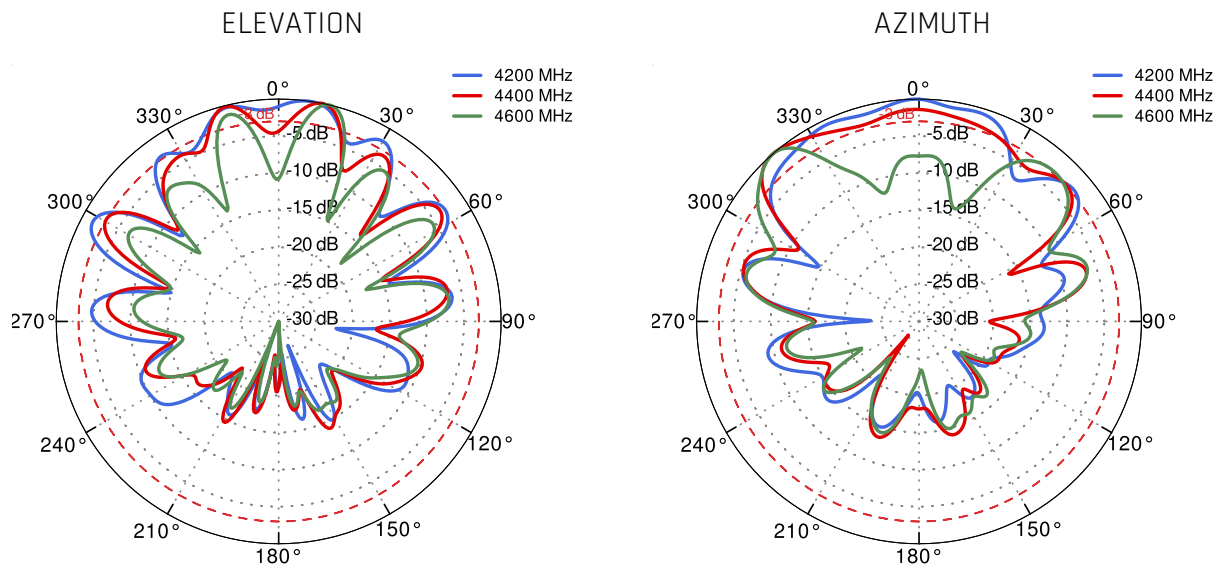
**PORT 1 - 5G/LTE from 5.0GHz to 5.9GHz**

**PORT 2 - 5G/LTE from 650MHz to 950MHz**


PORT 2 - 5G/LTE from 1.71GHz to 2.17GHz

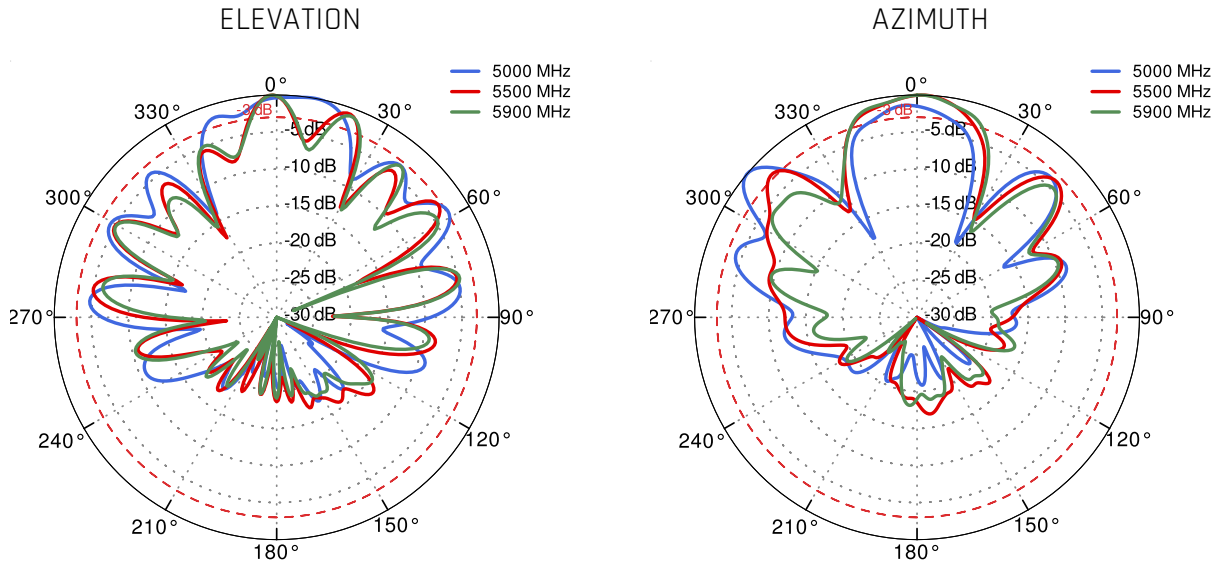


PORT 2 - 5G/LTE from 2.3GHz to 2.7GHz



**PORT 2 - 5G/LTE from 3.3GHz to 3.8GHz**

**PORT 2 - 5G/LTE from 4.2GHz to 4.6GHz**


PORT 2 - 5G/LTE from 5.0GHz to 5.9GHz



**DIMENSIONS**

