QuMax for Teltonika RUTX50/RUTM51/RUTM54

INTEGRATED MULTI-BAND LTE & 5G PANEL ANTENNA + WI-FI OMNI ANTENNA + GPS + PLACE TO INSTALL TELTONIKA RUTX50/RUTM51/RUTM54 (ALL-IN-ONE)

QuMax for RUTX50/RUTM51/RUTM54 is a high performance directional antenna designed for use in a variety of wireless communication applications. This all-in-one product consists of multi-band 5G, Wi-Fi and GPS antennas integrated in IP68 (IP67) enclosure. It offers 7.5 dBi gain and wide beamwidth, which makes it suitable for use in both urban and rural environments.
Combining QuMax with RUTX50, RUTM51 or RUTM54 inside the antenna housing gives you complete outdoor solution with mulitple use scenarios such as transportation public, energy, mining IoT and more.

5G | BAND 71 | Wi Fi DUALBAND | GPS | 617-6000MHz | 7 dBi | DIRECTIONAL | IP 68 | -40° TO +80°

POE PASSIVE **POE SUPPORT**

ANTENNA **PERFECTLY MATCHED** WITH THE ROUTER

OUTDOOR ANTENNA WORKS IN **ANY WEATHER CONDITIONS**, IP68

MADE IN **EUROPE**

5G / LTE ANTENNA SPECIFICATION

FREQUENCY	0.617 - 0.96 GHz 1.7 - 2.7 GHz 3.3 - 4.6 GHz 4.7 - 6.0 GHz
GAIN	0.617 - 0.96 GHz: 6 dBi 1.7 - 2.7 GHz: 7 dBi 3.3 - 4.6 GHz: 7 dBi 4.7 - 6.0 GHz: 5.5 dBi
SUPPORTED LTE BANDS	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
SUPPORTED 5G BANDS	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, n80, n81, n82, n83, n84, n85, n86, n89, n90, n95, n97, n98, n100, n101, n256
VSWR	<2.00, max <3.00
BEAMWIDTH	80°/80° ±15°
POLARIZATION	X (+-45degrees)
IMPEDANCE	50 Ω
CONNECTOR	4x SMA
CABLE TYPE	RG316

Copyright © 2023, Wireless Instruments. Specifications and information given in this document are subject to change without prior notice.

WI-FI ANTENNA SPECIFICATION

FREQUENCY	2.40 - 2.50 GHz 5.0 - 7.125 GHz
GAIN	2.40 - 2.50 GHz : 6 dBi 5.0 - 7.125 GHz : 7.5 dBi
VSWR	<1.70, max <2.00
BEAMWIDTH	360°/25° ±5°
POLARIZATION	Vertical
IMPEDANCE	50 Ω
CONNECTOR	2x RPSMA
CABLE TYPE	RG316

GPS ACTIVE ANTENNA SPECIFICATION

FREQUENCY	1.56 – 1.61 GHz
VSWR	< 2
GAIN	3 dBi
GAIN 3V	28 dBi
DC POWER INPUT	2.5 V ~ 6.5 V
POWER CONSUMPTION	2.5-6.5mA
IMPEDANCE	50 Ω
POLARIZATION	RHCP (right hand circularly polarized)

Copyright © 2023, Wireless Instruments. Specifications and information given in this document are subject to change without prior notice.

CONNECTOR	1x SMA
CABLE TYPE	RG174

MECHANICAL SPECIFICATION

MATERIALS	ABS, aluminum, PTFE, Fiberglass
CONNECTOR TYPE	RJ45
INGRESS PROTECTION	IP68
DIMENSIONS	486.0 x 292.2 x 210.0 mm 19.13 x 11.50 x 8.27 inch
WEIGHT	2.8 kg 6.17 lbs
OPERATING TEMPERATURE	From -40°C to 80°C From -40°F to 176°F

MOUNTING KIT

DIMENSIONS	9.9 x 10.5 x 14.8 cm 3.9 x 4.13 x 5.83 inch
REGULATION RANGE	+/- 30°
MAST DIAMETER RANGE	25 - 60mm 0.98-2.36 inch
MATERIAL	Polyamide with fiberglass + galvanized steel U-Bolts
MOUNTING PLACE	Wall or ceiling or mast

Copyright © 2023, Wireless Instruments. Specifications and information given in this document are subject to change without prior notice.

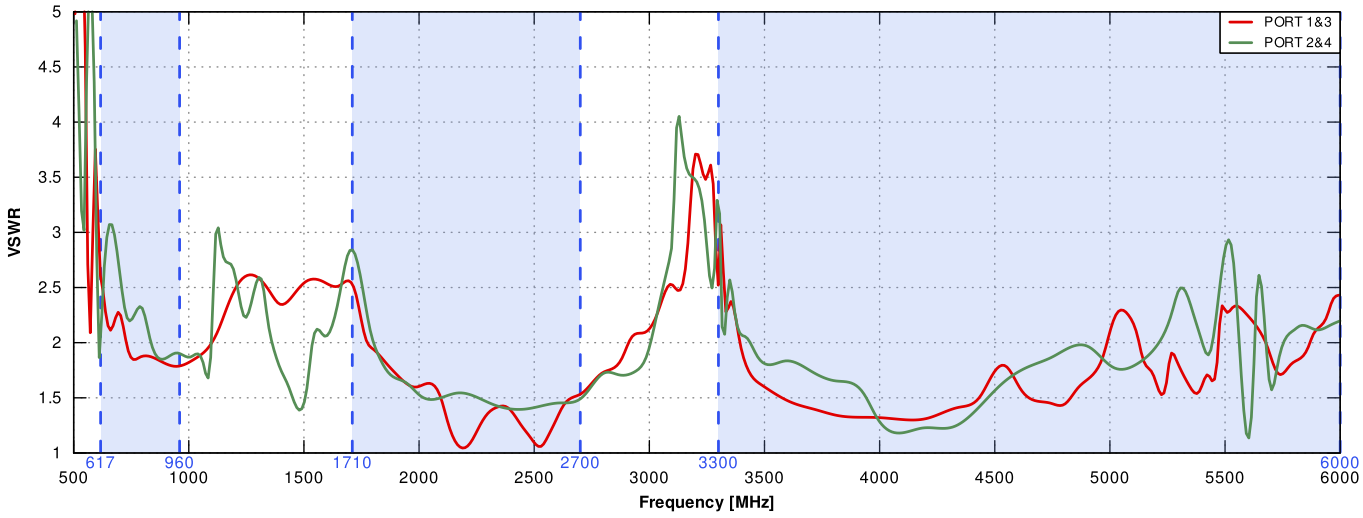
FREQUENCY BANDS

LTE / 4G	617 MHz	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	6000MHz
5G	617 MHz	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, n80, n81, n82, n83, n84, n85, n86, n89, n90, n95, n97, n98, n100, n101, n256	6000 MHz

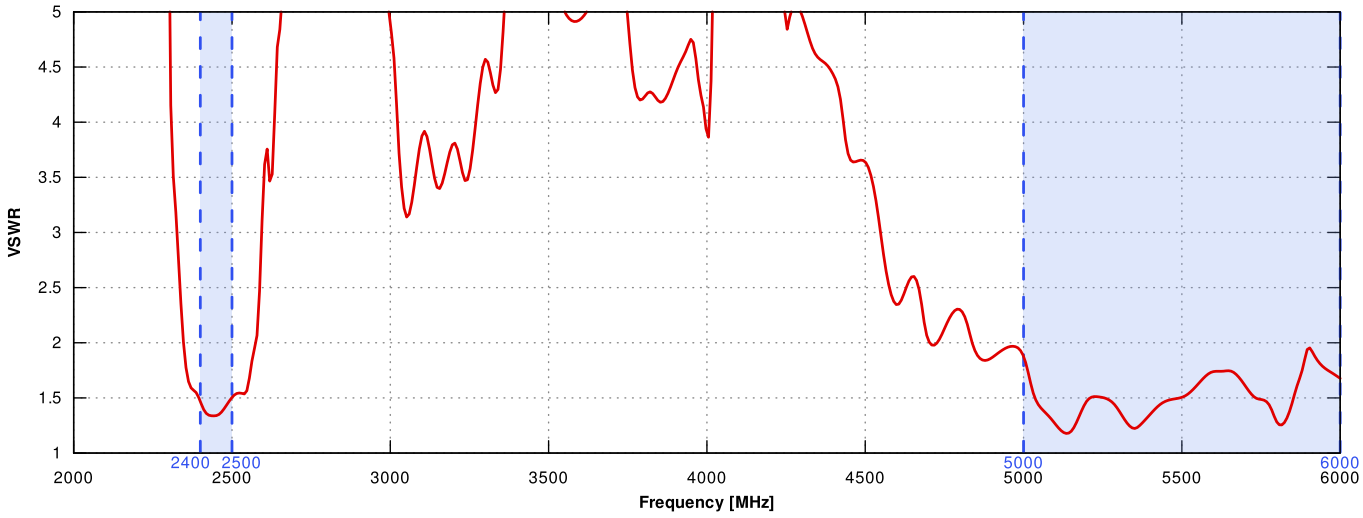
Copyright © 2023, Wireless Instruments. Specifications and information given in this document are subject to change without prior notice.

PLOTS

VSWR for 5G/LTE antenna

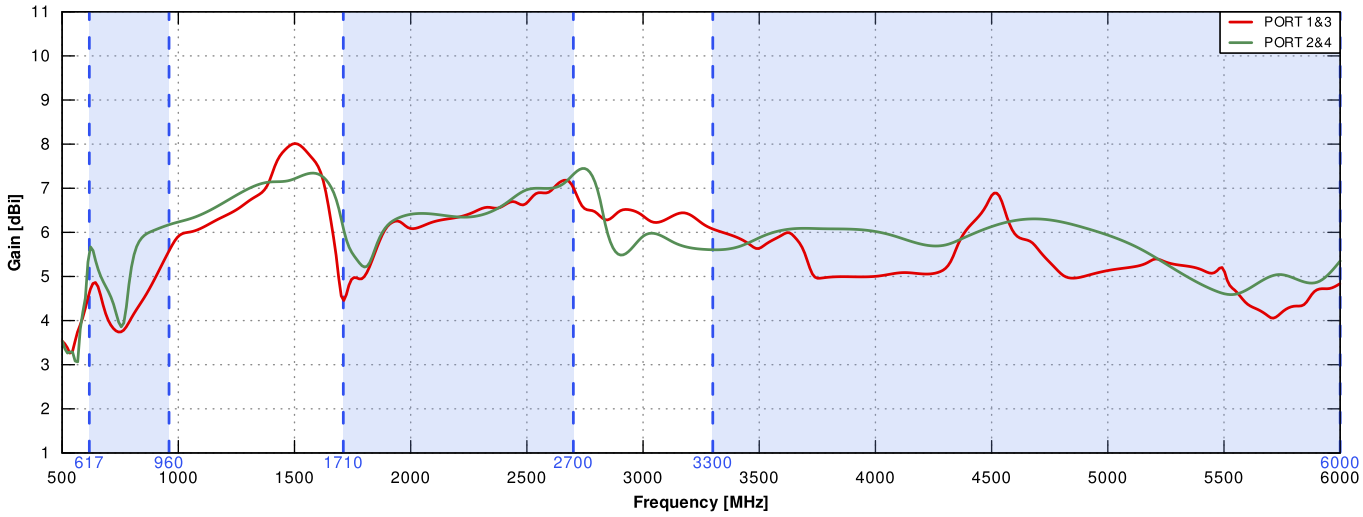


VSWR for Wi-Fi antenna

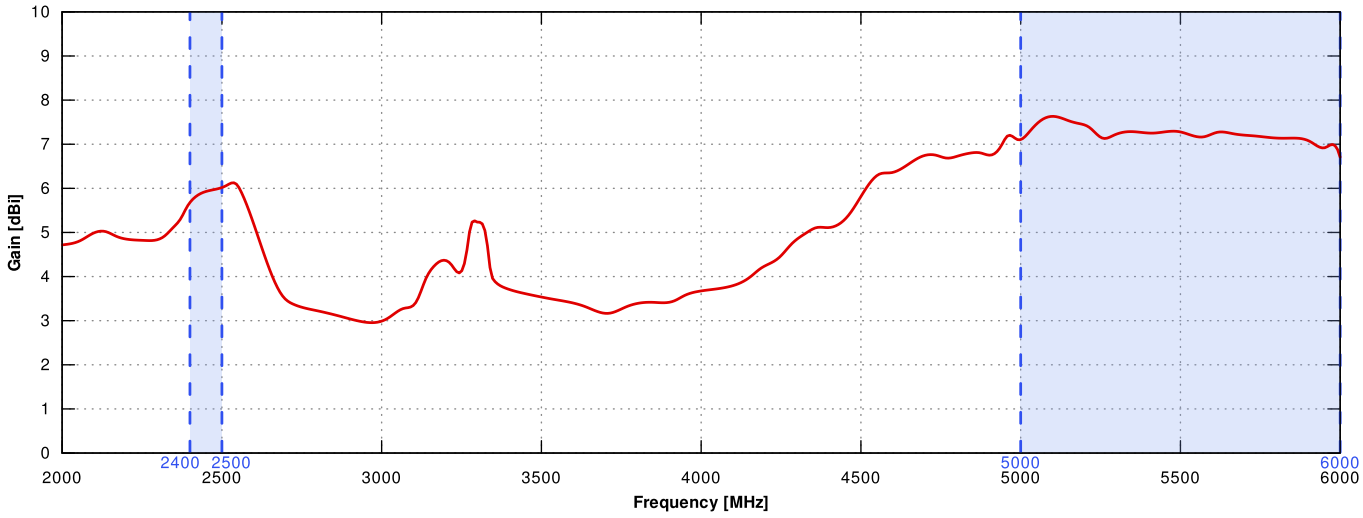


Copyright © 2023, Wireless Instruments. Specifications and information given in this document are subject to change without prior notice.

Gain for 5G/LTE antenna



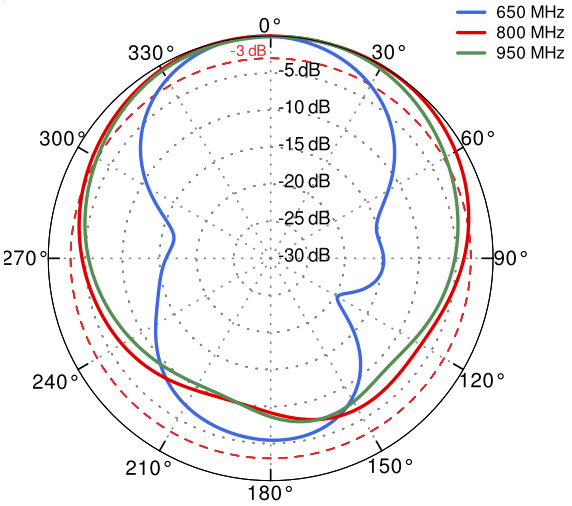
Gain for Wi-Fi antenna



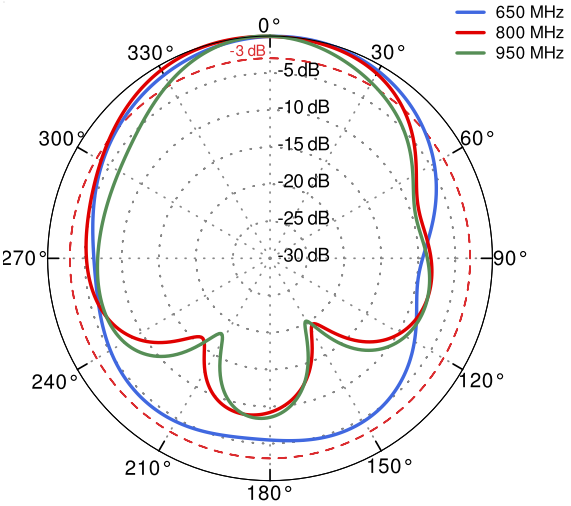
Copyright © 2023, Wireless Instruments. Specifications and information given in this document are subject to change without prior notice.

PORT 1&3 - 5G/LTE from 650MHz to 950MHz

ELEVATION

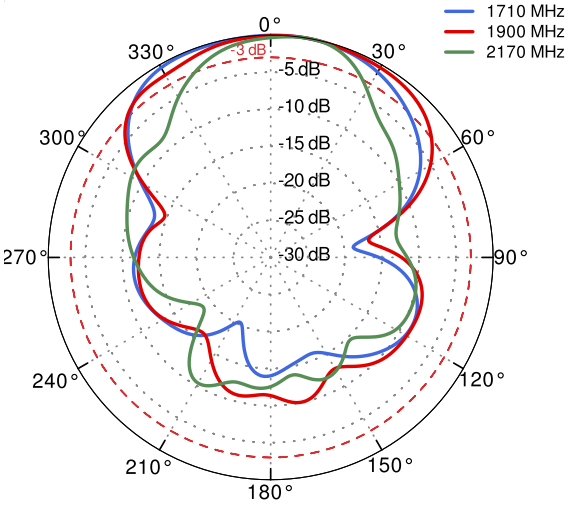


AZIMUTH

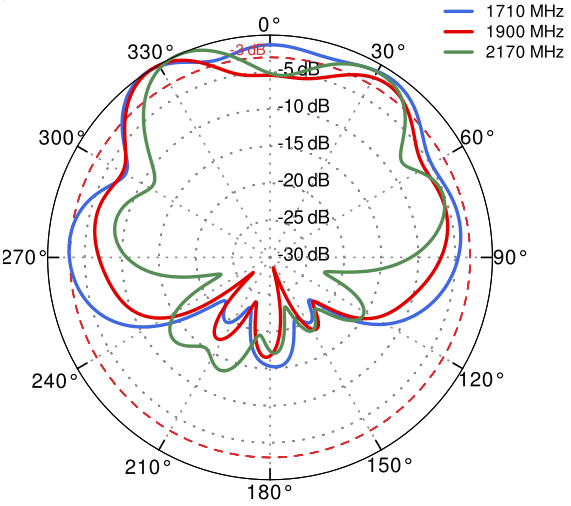


PORT 1&3 - 5G/LTE from 1.71GHz to 2.17GHz

ELEVATION



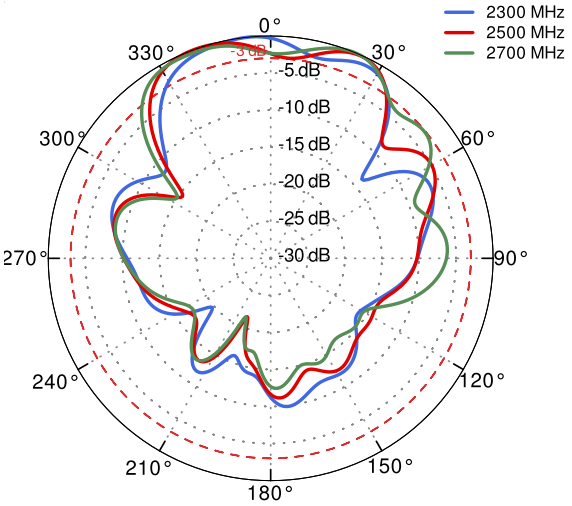
AZIMUTH



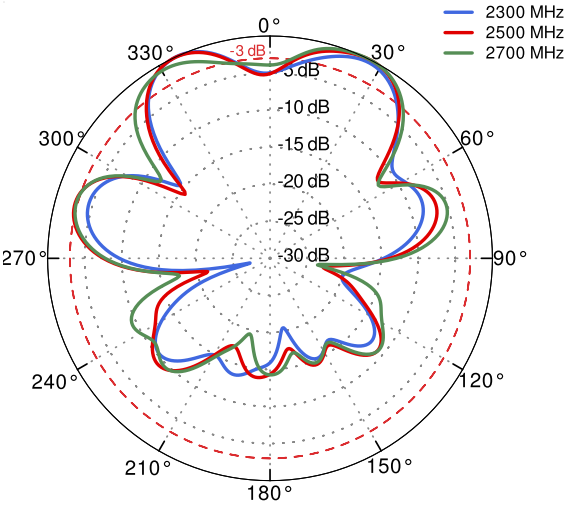
Copyright © 2023, Wireless Instruments. Specifications and information given in this document are subject to change without prior notice.

PORT 1&3 - 5G/LTE from 2.3GHz to 2.7GHz

ELEVATION

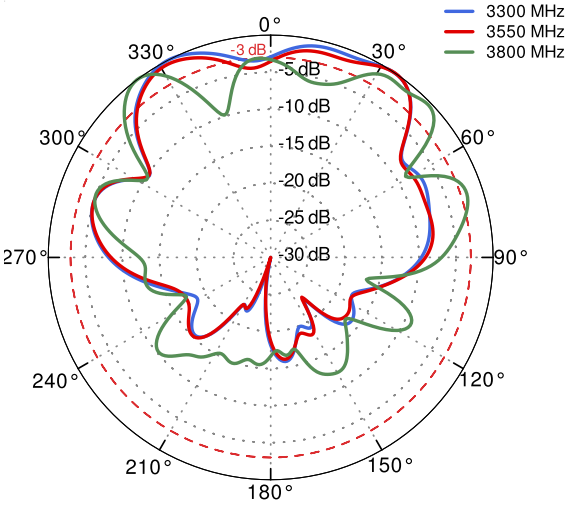


AZIMUTH

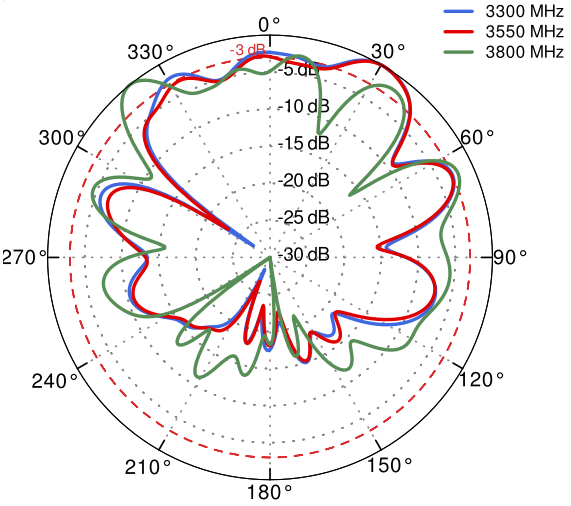


PORT 1&3 - 5G/LTE from 3.3GHz to 3.8GHz

ELEVATION



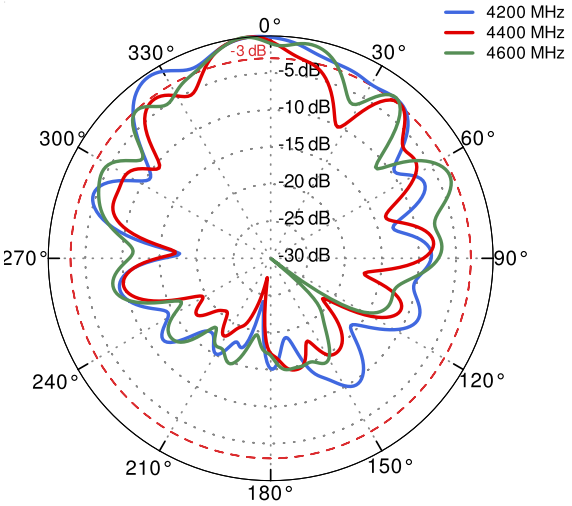
AZIMUTH



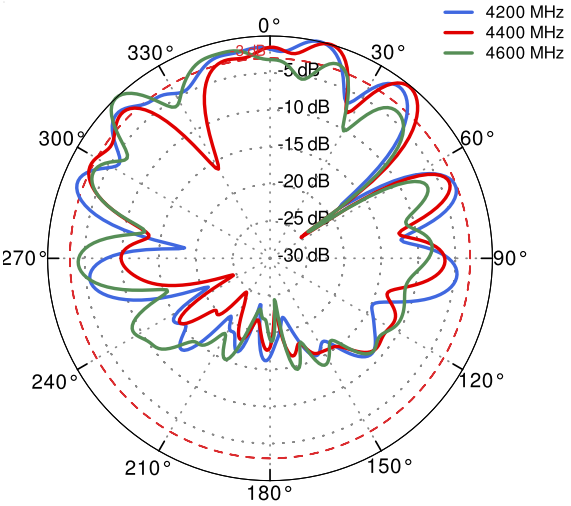
Copyright © 2023, Wireless Instruments. Specifications and information given in this document are subject to change without prior notice.

PORT 1&3 - 5G/LTE from 4.2GHz to 4.6GHz

ELEVATION

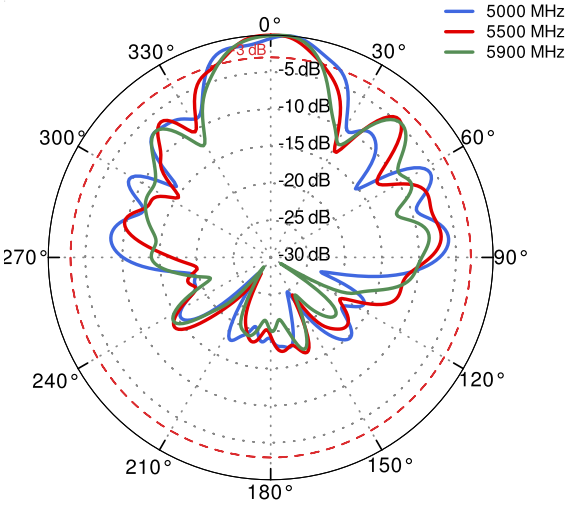


AZIMUTH

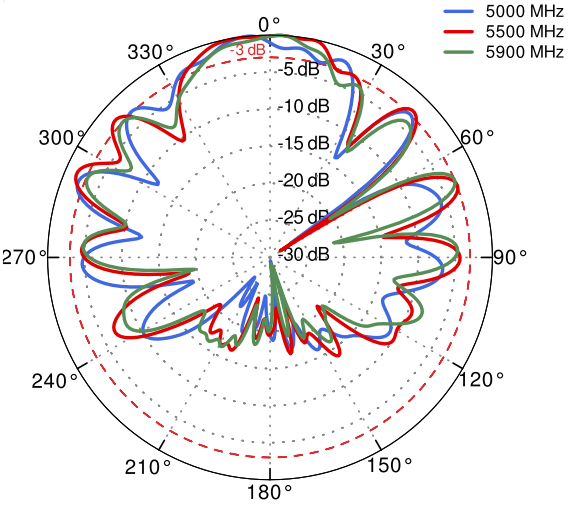


PORT 1&3 - 5G/LTE from 5.0GHz to 5.9GHz

ELEVATION



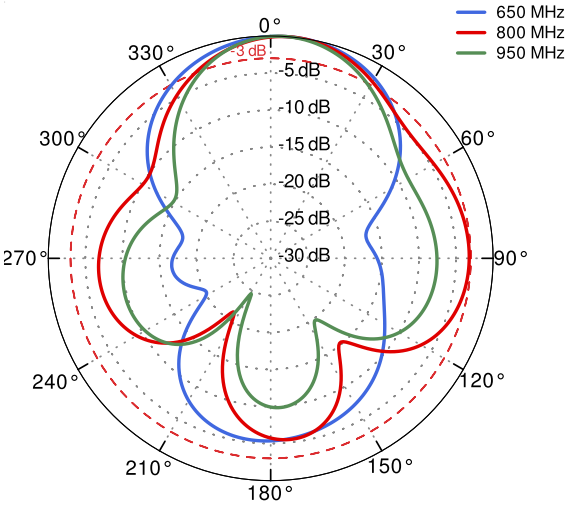
AZIMUTH



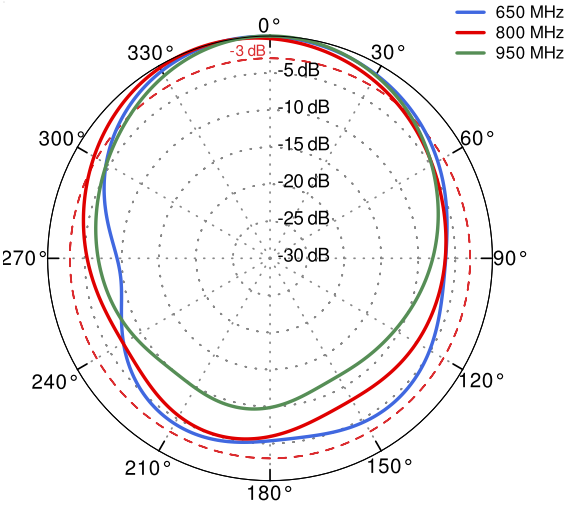
Copyright © 2023, Wireless Instruments. Specifications and information given in this document are subject to change without prior notice.

PORT 2&4 - 5G/LTE from 650MHz to 950MHz

ELEVATION

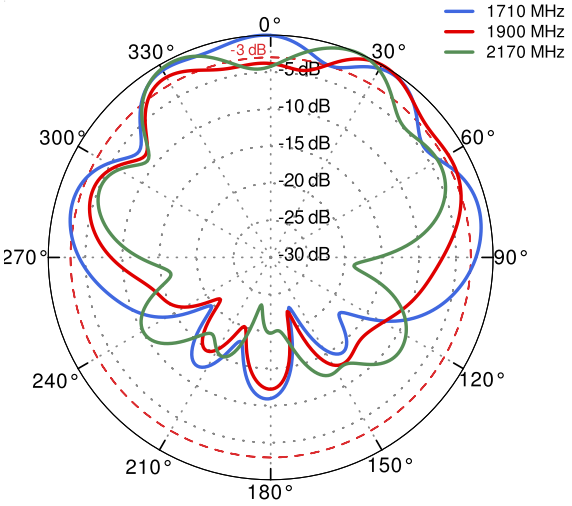


AZIMUTH

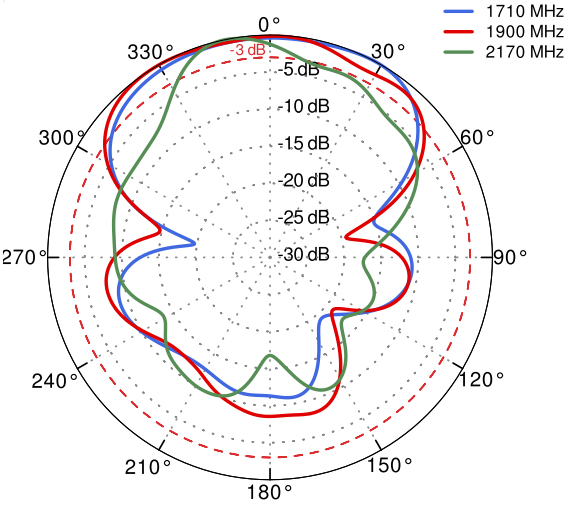


PORT 2&4 - 5G/LTE from 1.71GHz to 2.17GHz

ELEVATION



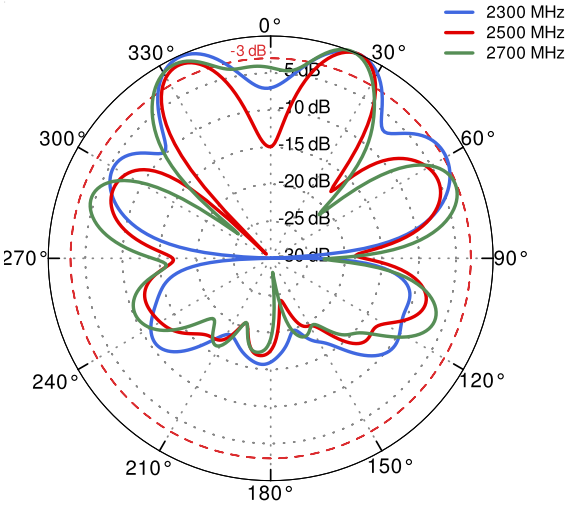
AZIMUTH



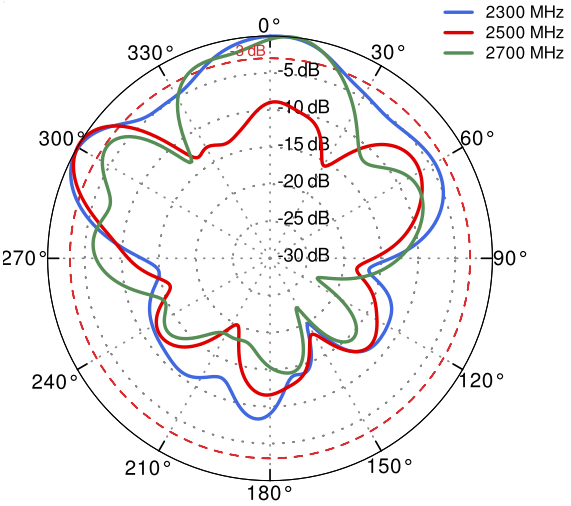
Copyright © 2023, Wireless Instruments. Specifications and information given in this document are subject to change without prior notice.

PORT 2&4 - 5G/LTE from 2.3GHz to 2.7GHz

ELEVATION

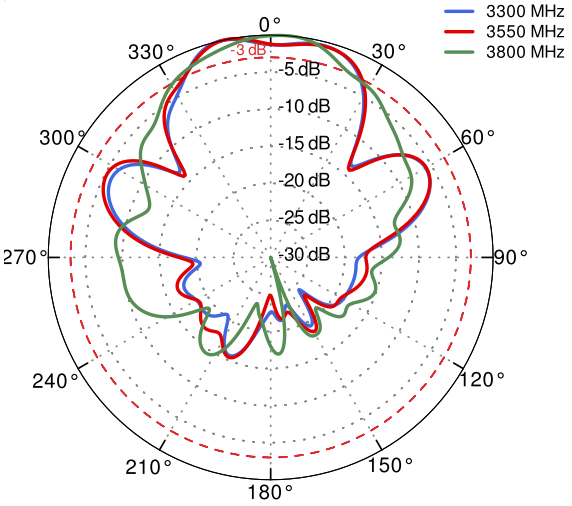


AZIMUTH

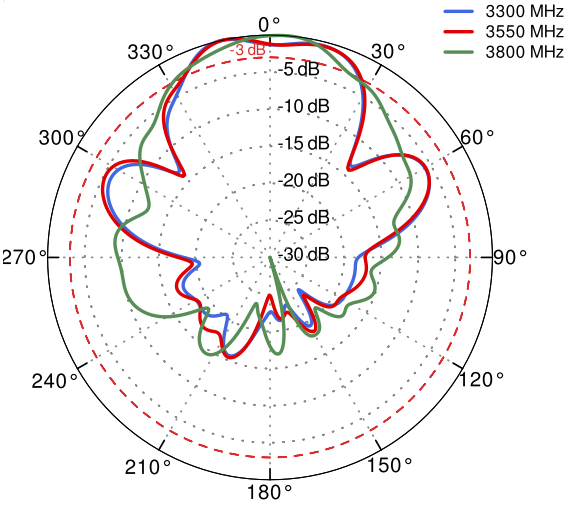


PORT 2&4 - 5G/LTE from 3.3GHz to 3.8GHz

ELEVATION



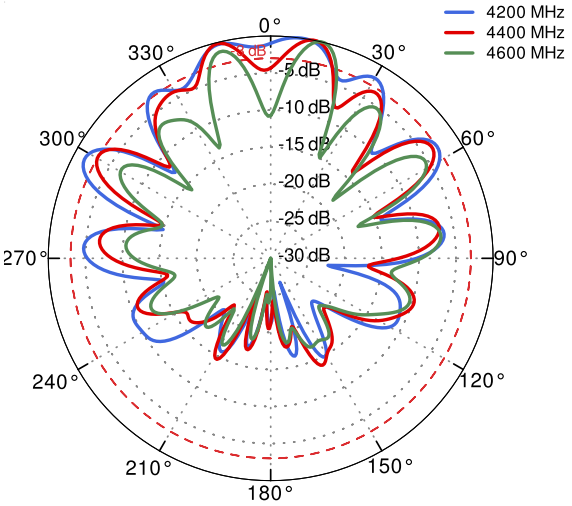
AZIMUTH



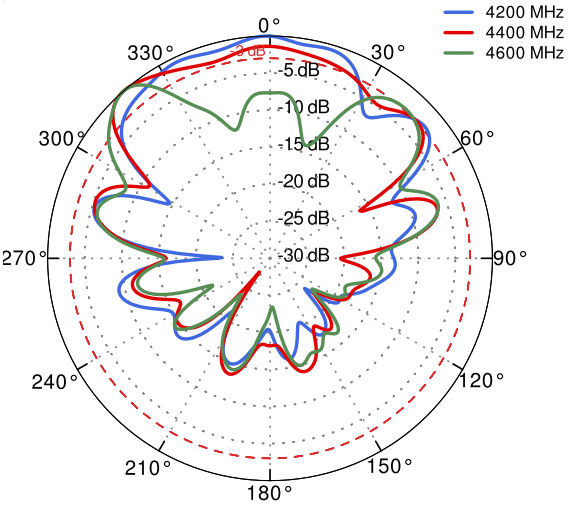
Copyright © 2023, Wireless Instruments. Specifications and information given in this document are subject to change without prior notice.

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

ELEVATION

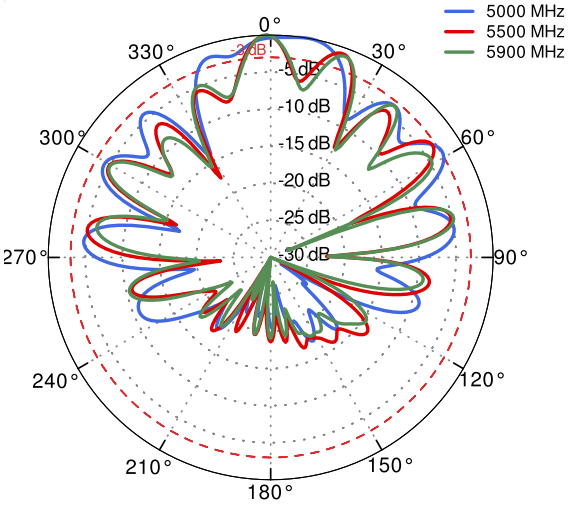


AZIMUTH

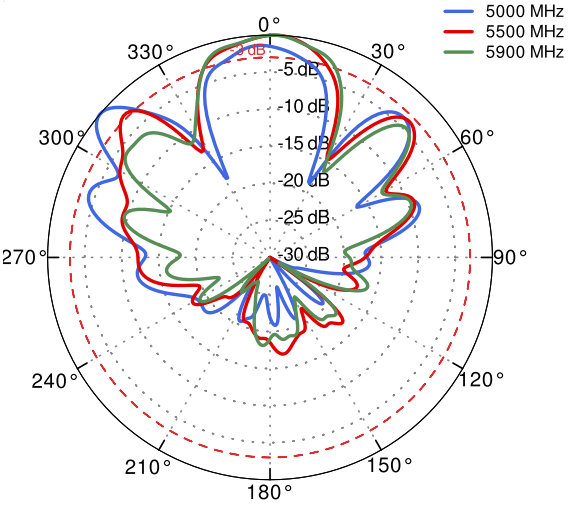


PORT 2 - 5G/LTE from 5.0GHz to 5.9GHz

ELEVATION



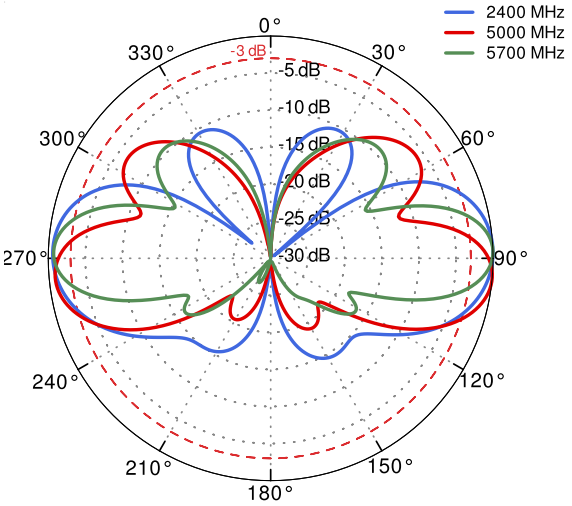
AZIMUTH



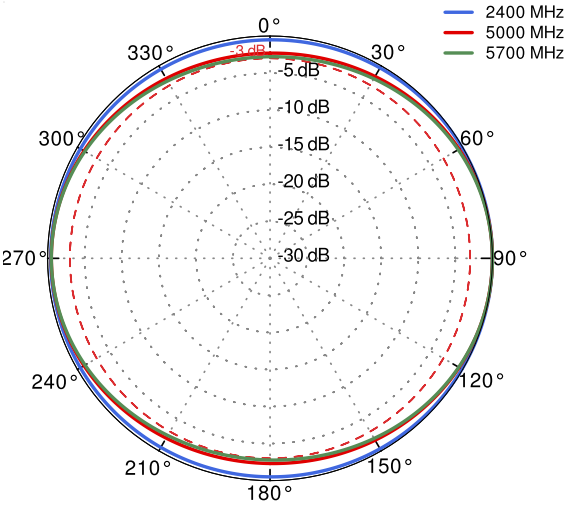
Copyright © 2023, Wireless Instruments. Specifications and information given in this document are subject to change without prior notice.

Wi-Fi 2.4GHz and 5GHz

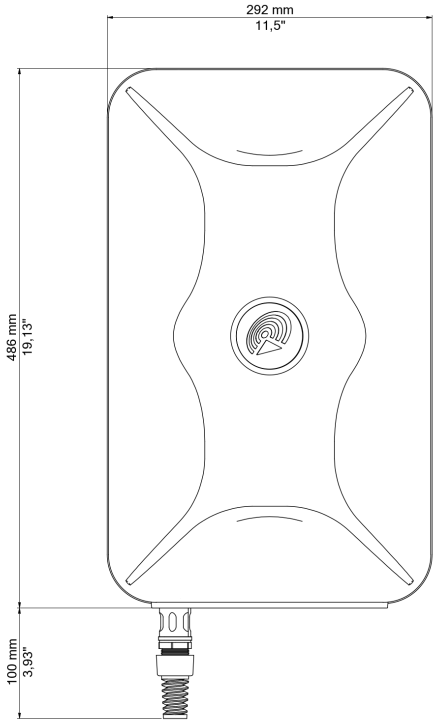
ELEVATION

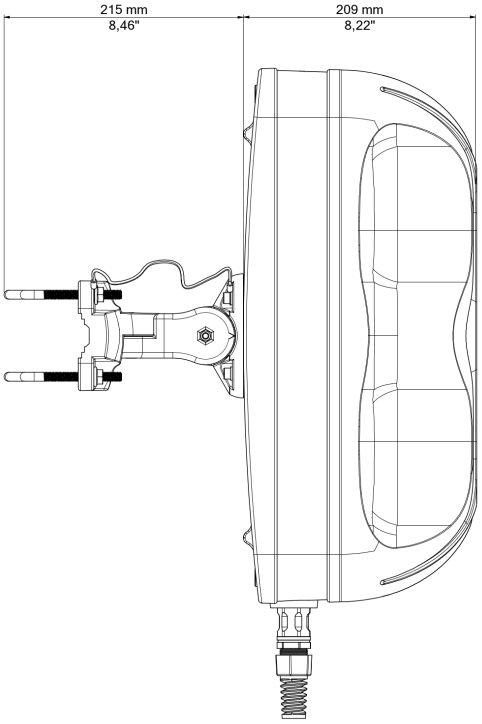


AZIMUTH

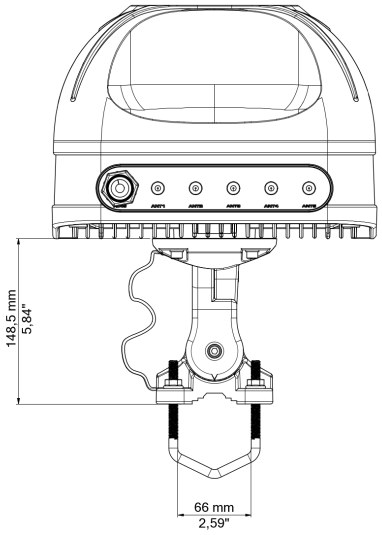


DIMENSIONS





Copyright © 2023, Wireless Instruments. Specifications and information given in this document are subject to change without prior notice.



WWW.QUWIRELESS.COM

Sales email: sales@quwireless.com **Tel:** +48 513 900 416
Support email: support@quwireless.com **Website:** www.quwireless.com
Address: Wireless Instruments Sp. z o.o., ul. Kościuszki 27, 52-116 Iwiny, Poland

Copyright © 2023, Wireless Instruments. Specifications and information given in this document are subject to change without prior notice.