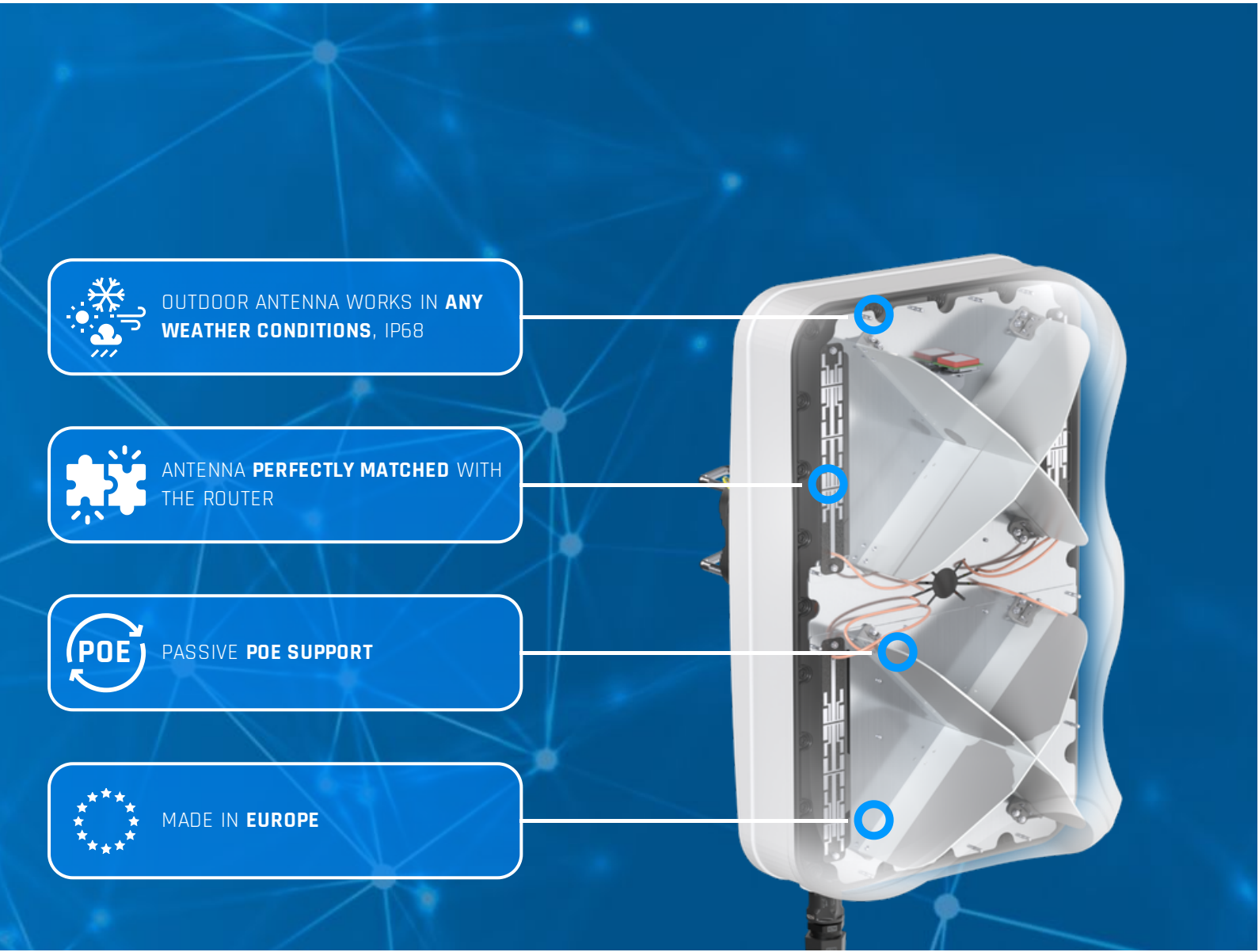
QuMax for Teltonika RUTC50

INTEGRATED MULTI-BAND LTE & 5G PANEL ANTENNA + WI-FI 6E OMNI ANTENNA + GPS + PLACE TO INSTALL TELTONIKA RUTC50/RUTC42/RUTC40 (ALL-IN-ONE)

QuMax for RUTC50/RUTC54/RUTC42/RUTC40 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 8 dBi gain and wide beamwidth, which makes it suitable for use in both urban and rural environments.
Combining QuMax with RUTC50/RUTC54/RUTC42/RUTC40 inside the antenna housing gives you complete outdoor solution with mulitple use scenarios such as transportation public, energy, mining IoT and more.
Wi-Fi 6E support!
The RUTC50 only supports passive POE from batch number 7 onwards.

5G | BAND 71 | Wi Fi 6E | GPS | 617-6500MHz | 8 dBi | DIRECTIONAL | IP 68 | -40° TO +80°



5G / LTE ANTENNA SPECIFICATION

FREQUENCY	0.617 - 1.0 GHz 1.0 - 3.08 GHz 3.3 - 5.0 GHz 5.0 - 6.5 GHz
MAX. GAIN	0.617 - 1.0 GHz : 6 dBi 1.0 - 3.08 GHz : 8 dBi 3.3 - 5.0 GHz : 6.8 dBi 5.0 - 6.5 GHz : 5.5 dBi
SUPPORTED LTE BANDS	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 65, 66, 67, 68, 69, 70, 71, 74, 75, 76, 85, 103, 106, 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, n50, n51, n53, n54, n65, n66, n67, n68, n70, n71, n74, n75, n76, n77, n78, n79, n80, n81, n82, n83, n84, n85, n86, n89, n90, n91, n92, n93, n94, n95, n97, n98, n99, n100, n101, n102, n106, n109, n110, n250, n251, n252, n253, n254, n255, n256
VSWR	<2.00, max <3.00
BEAMWIDTH	80°/80° ±15°
POLARIZATION	X (+-45degrees)
IMPEDANCE	50 Ω

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WI-FI ANTENNA SPECIFICATION

FREQUENCY	2.40 - 2.50 GHz 5.0 - 7.125 GHz
MAX. 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

MECHANICAL SPECIFICATION

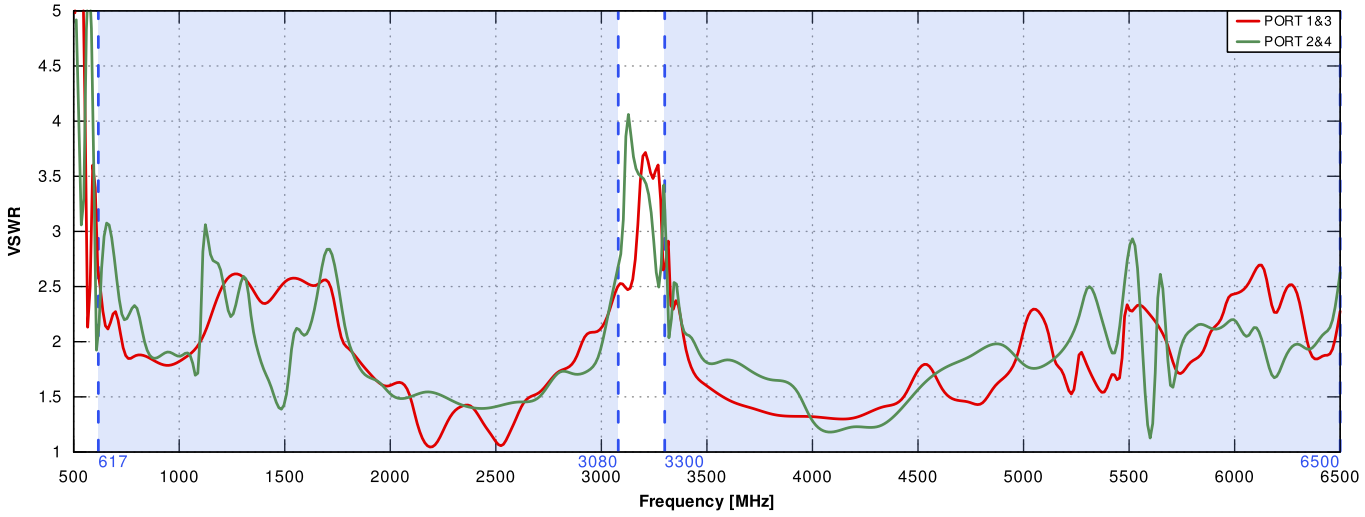
RADOME MATERIAL	UV-resistant ASA
OPERATING HUMIDITY	up to 100% RH
MATERIALS	aluminum, PTFE, Fiberglass
CONNECTOR TYPE	RJ45
INGRESS PROTECTION	IP68
DIMENSIONS	486.0 x 292.2 x 105.6 mm 19.13 x 11.50 x 4.16 inch
WEIGHT	2.8 kg 6.17 lbs
OPERATING TEMPERATURE	From -40°C to 80°C From -40°F to 176°F

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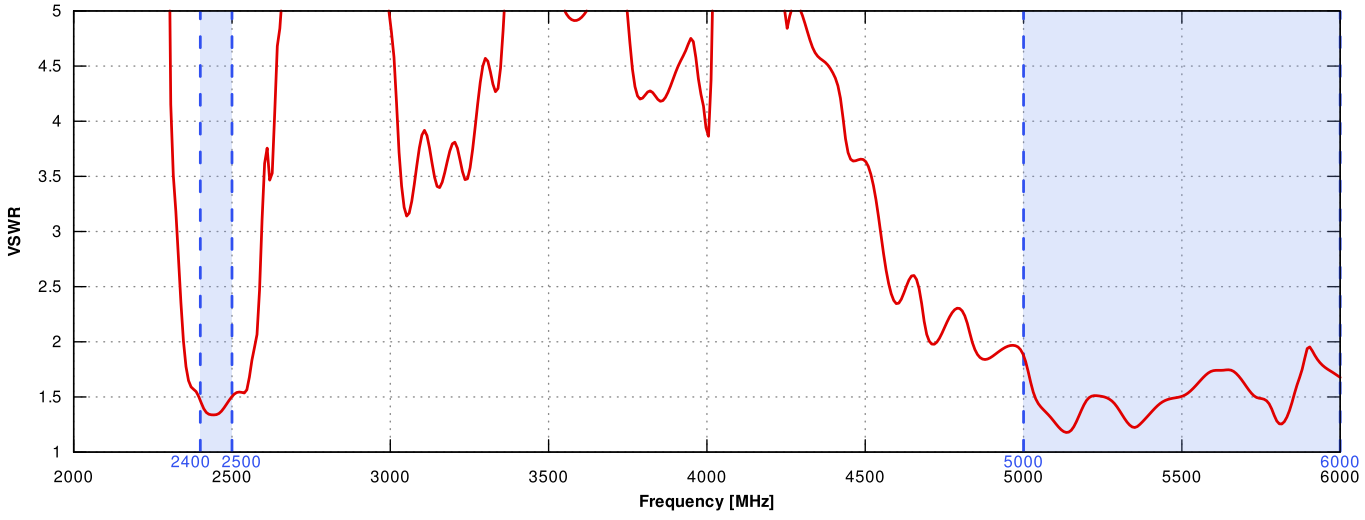
ENCLOSURE RECOMMENDED TIGHTENING TORQUE	0.6 - 0.8 Nm
MAST DIAMETER	25-66mm 0.98-2.60 inch

PLOTS

VSWR for 5G/LTE antenna

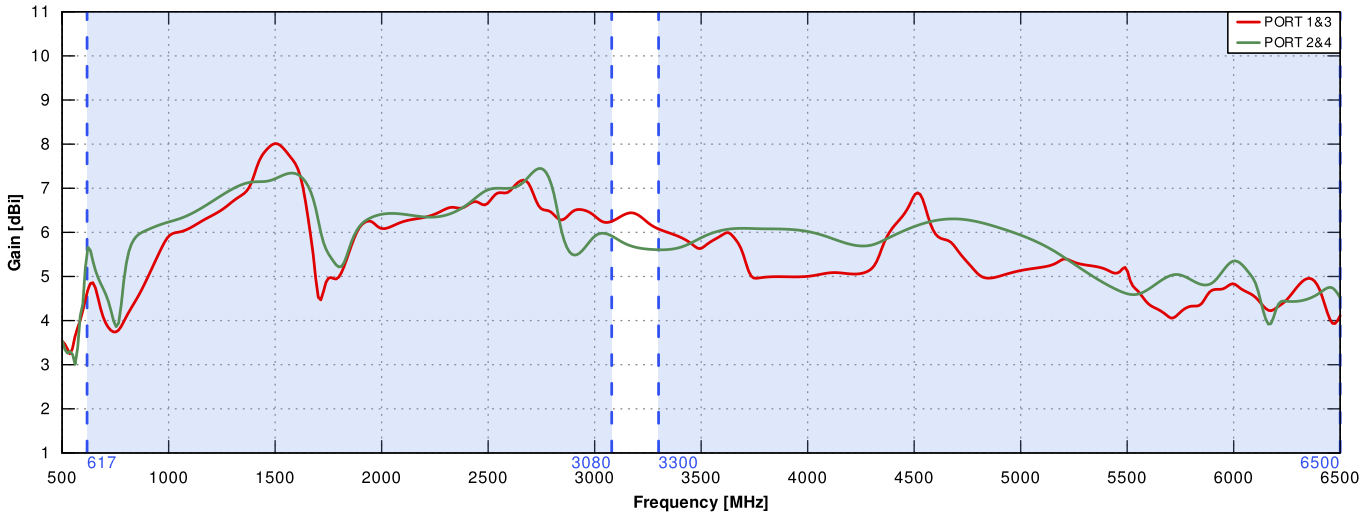


VSWR for Wi-Fi antenna

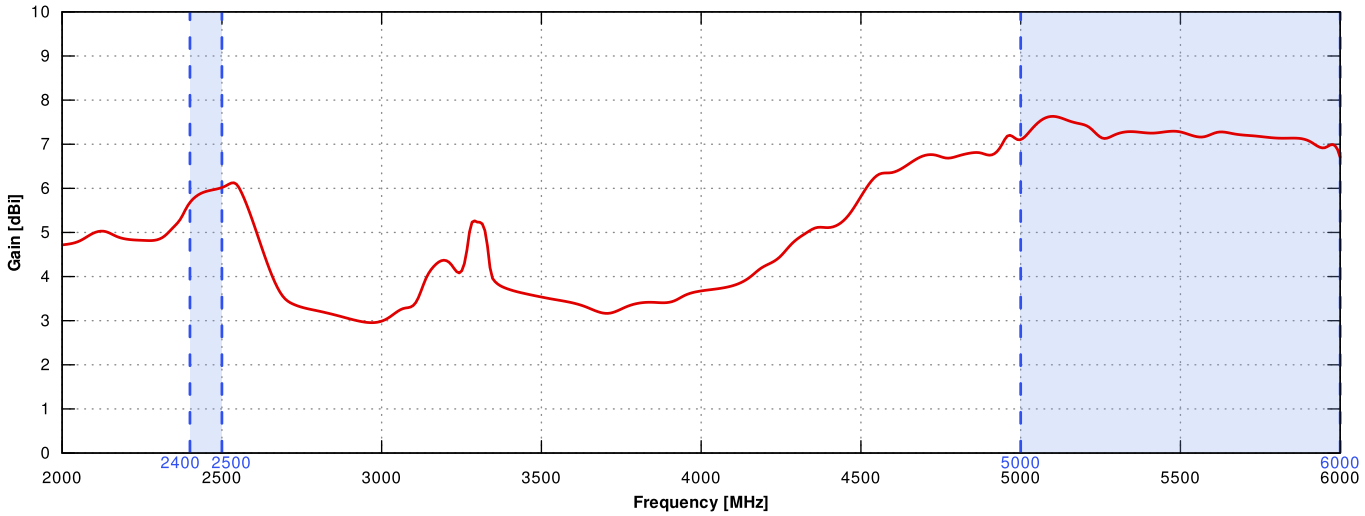


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Gain for 5G/LTE antenna



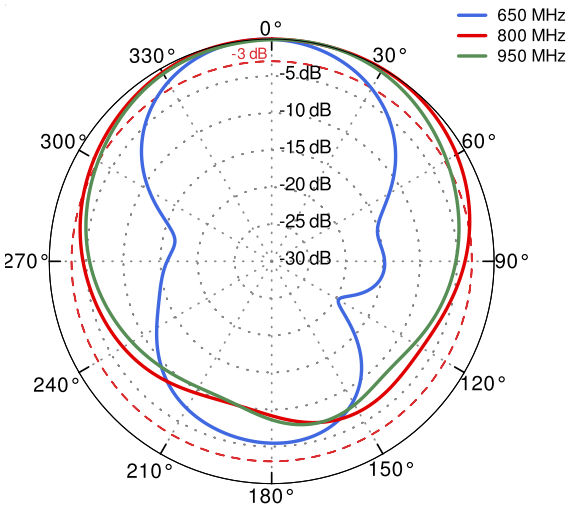
Gain for Wi-Fi antenna



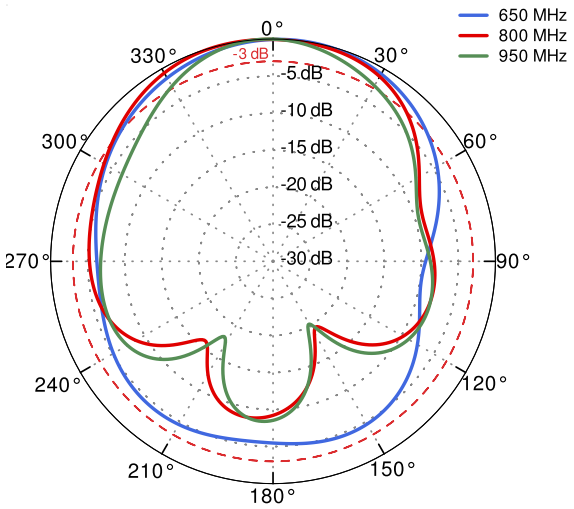
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PORT 1&3 - 5G/LTE from 650MHz to 950MHz

ELEVATION

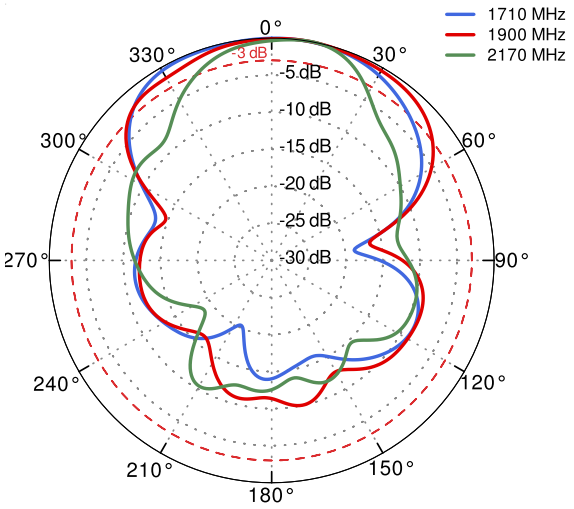


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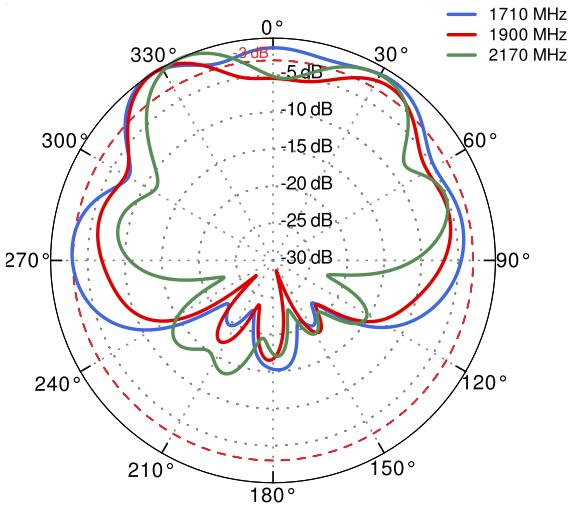


PORT 1&3 - 5G/LTE from 1.71GHz to 2.17GHz

ELEVATION



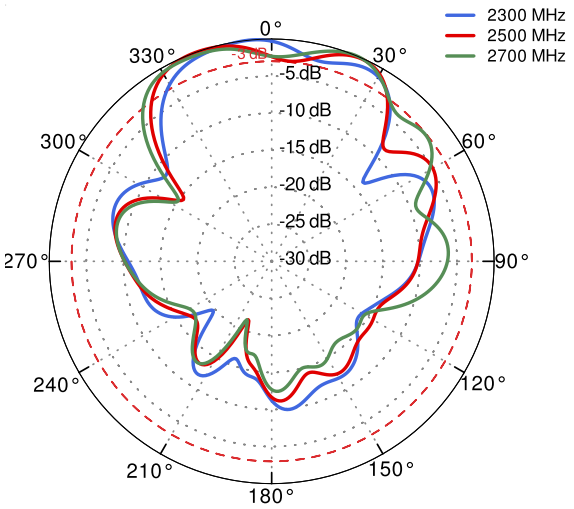
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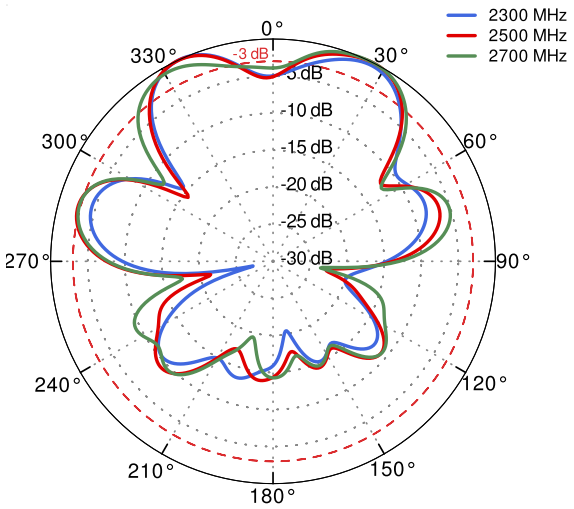
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PORT 1&3 - 5G/LTE from 2.3GHz to 2.7GHz

ELEVATION

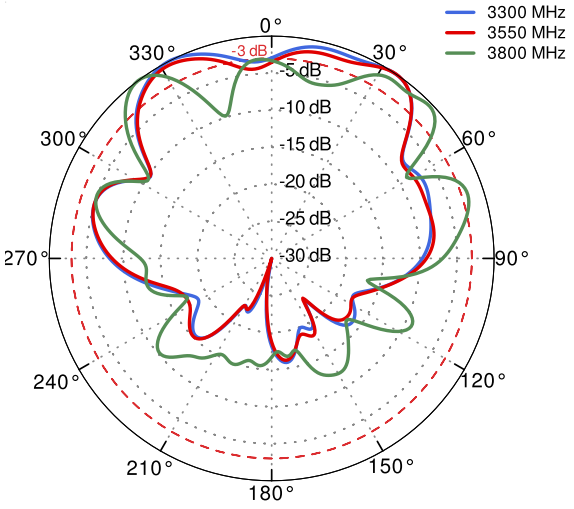


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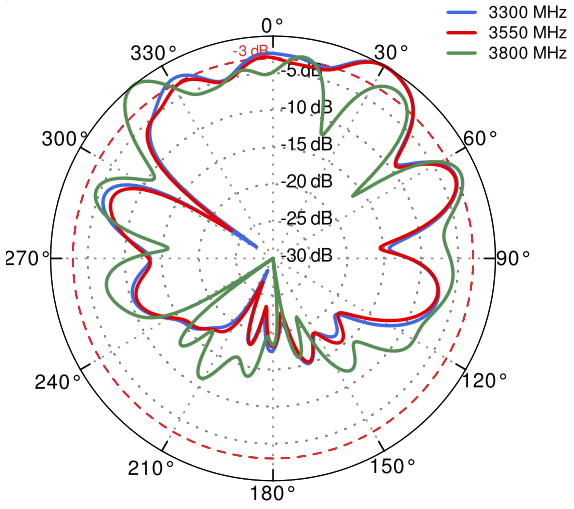


PORT 1&3 - 5G/LTE from 3.3GHz to 3.8GHz

ELEVATION



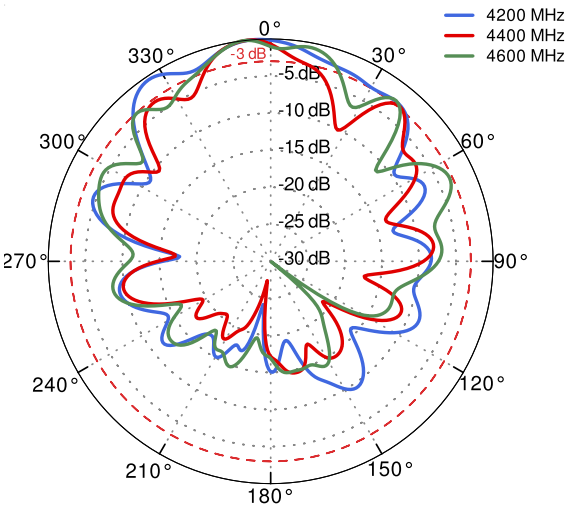
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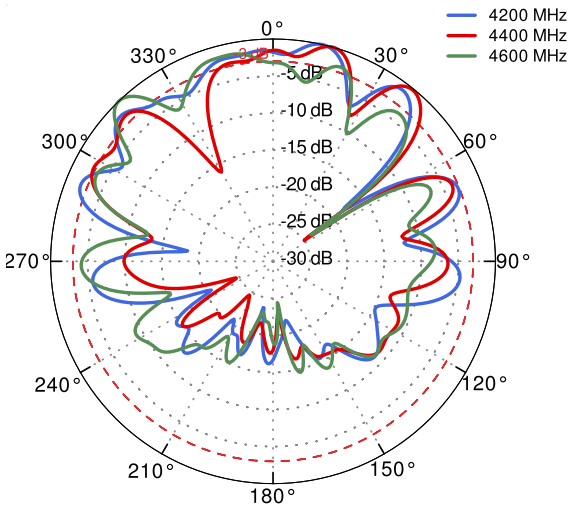
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PORT 1&3 - 5G/LTE from 4.2GHz to 4.6GHz

ELEVATION

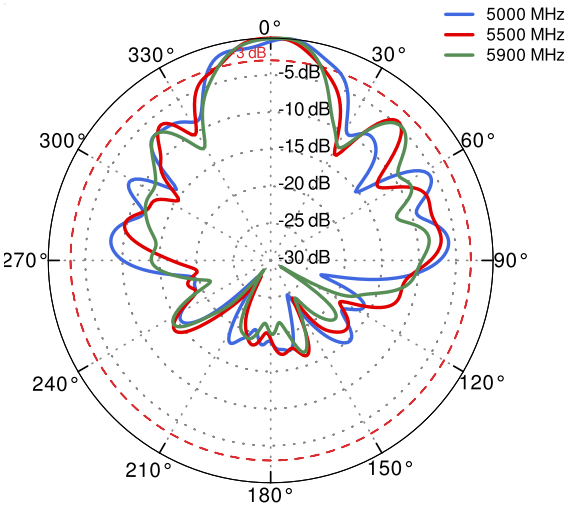


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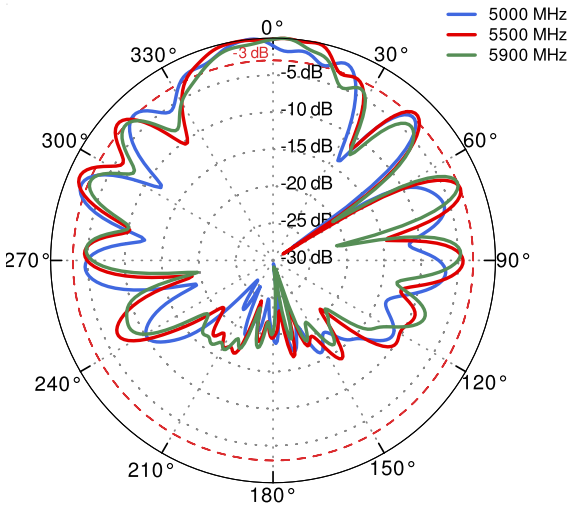


PORT 1&3 - 5G/LTE from 5.0GHz to 5.9GHz

ELEVATION



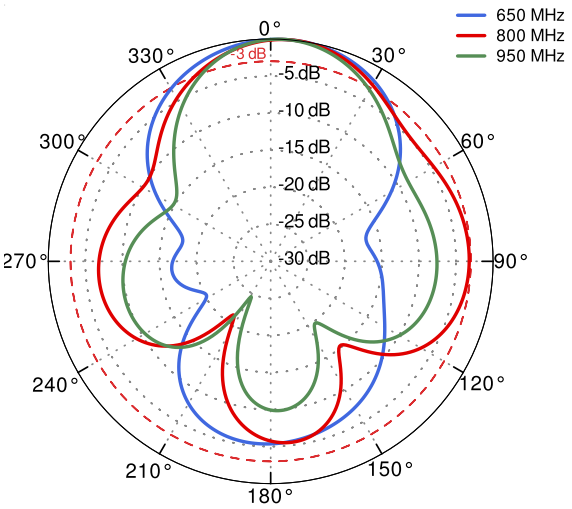
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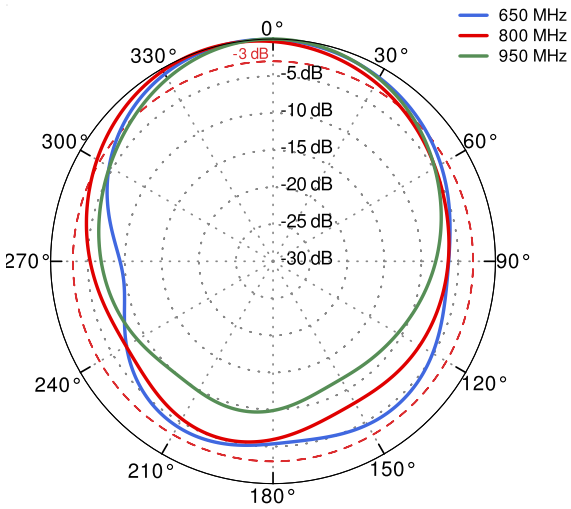
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PORT 2&4 - 5G/LTE from 650MHz to 950MHz

ELEVATION

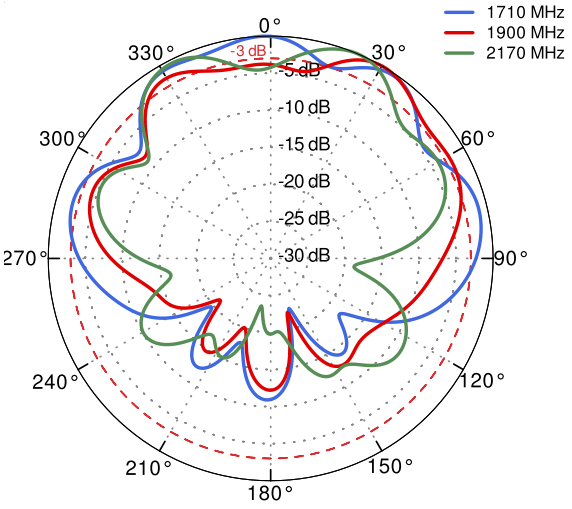


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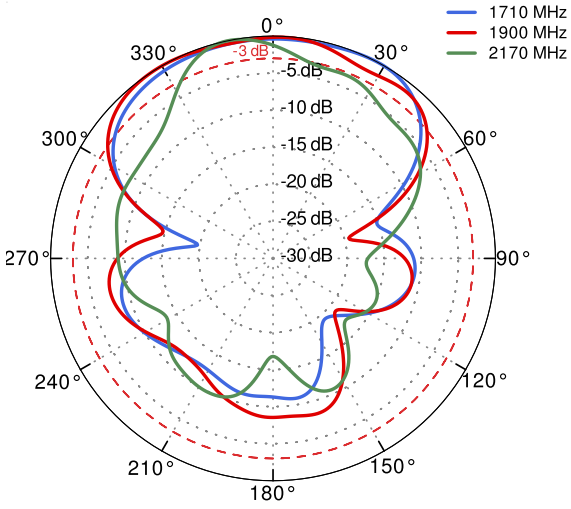


PORT 2&4 - 5G/LTE from 1.71GHz to 2.17GHz

ELEVATION



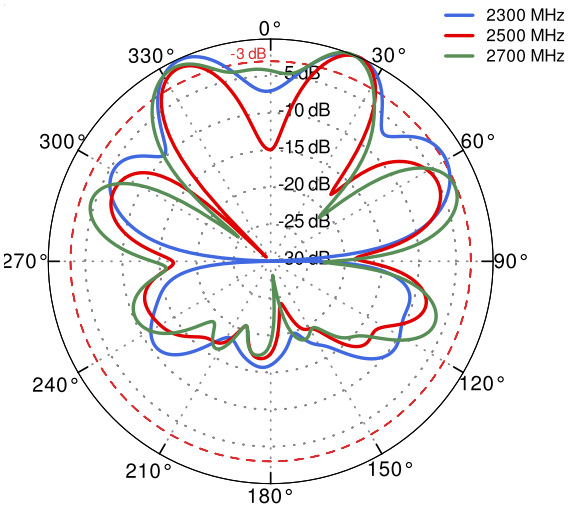
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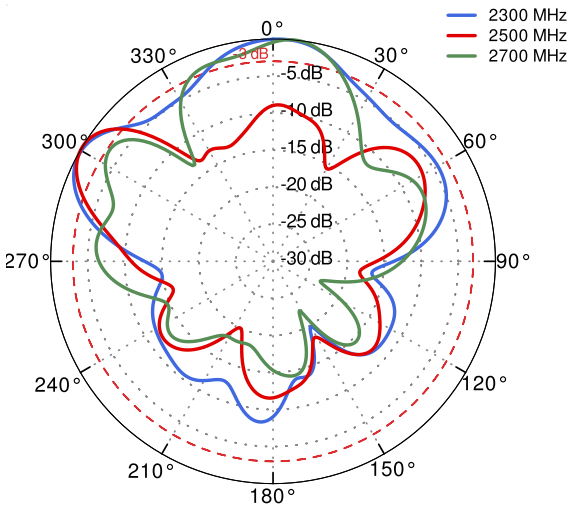
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PORT 2&4 - 5G/LTE from 2.3GHz to 2.7GHz

ELEVATION

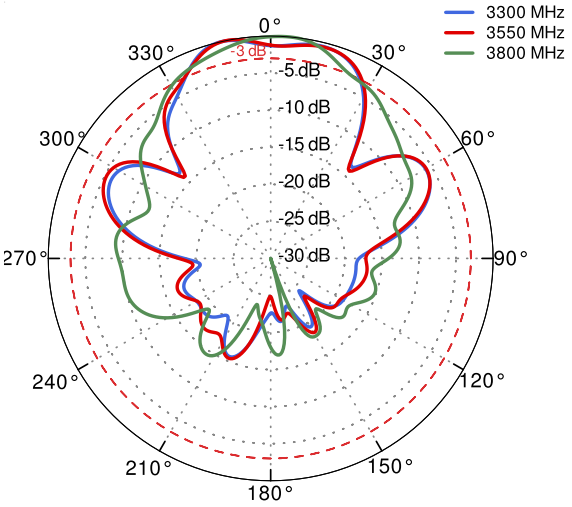


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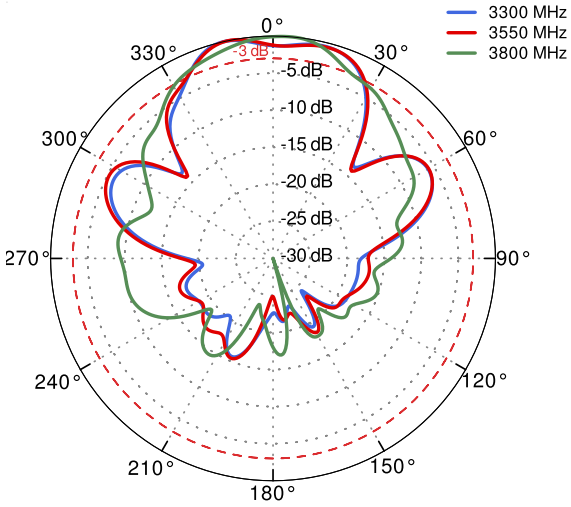


PORT 2&4 - 5G/LTE from 3.3GHz to 3.8GHz

ELEVATION



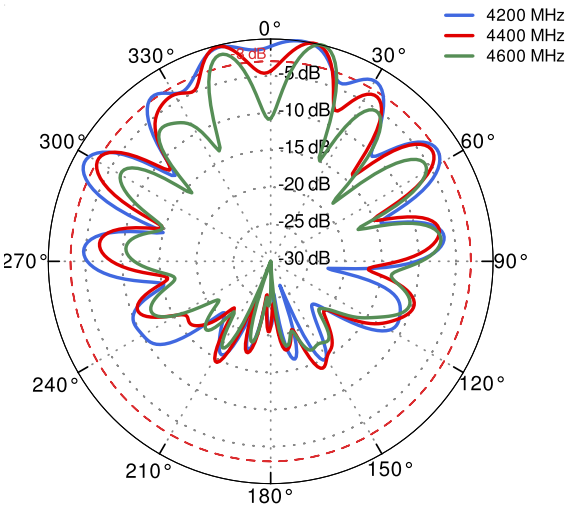
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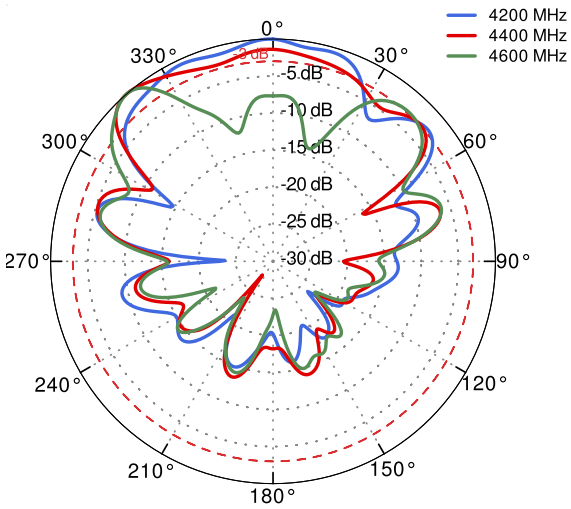
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PORT 2 - 5G/LTE from 4.2GHz to 4.6GHz

ELEVATION

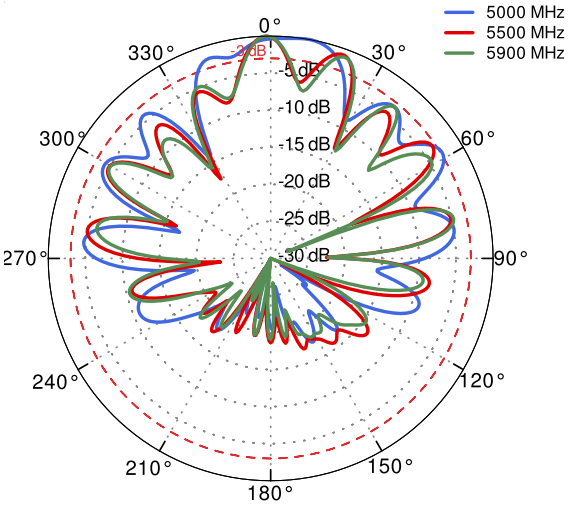


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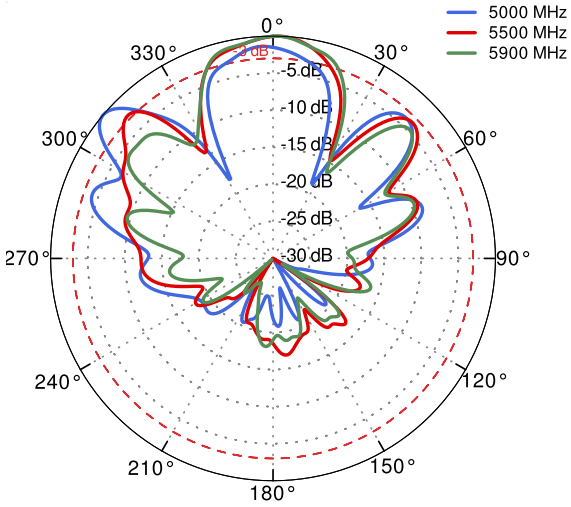


PORT 2 - 5G/LTE from 5.0GHz to 5.9GHz

ELEVATION



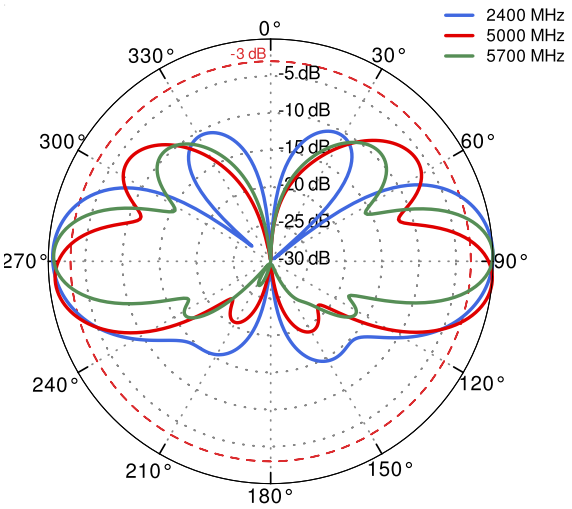
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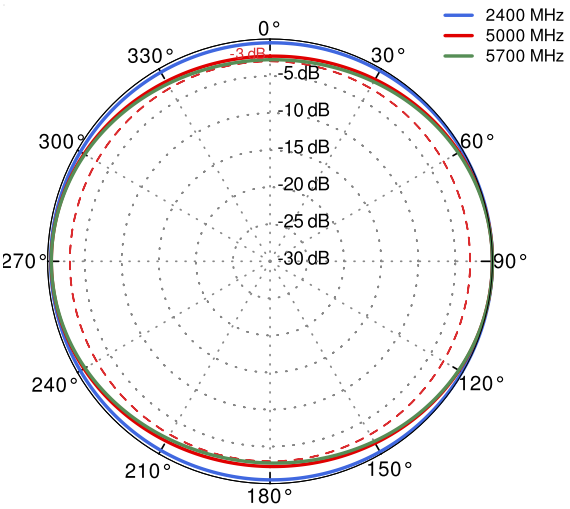
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Wi-Fi 2.4GHz and 5GHz

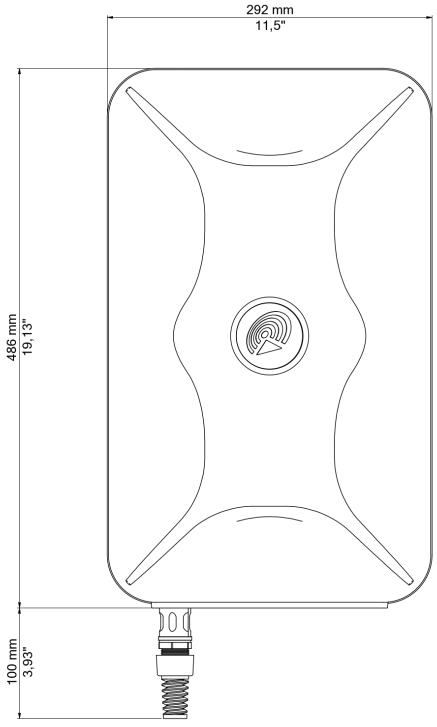
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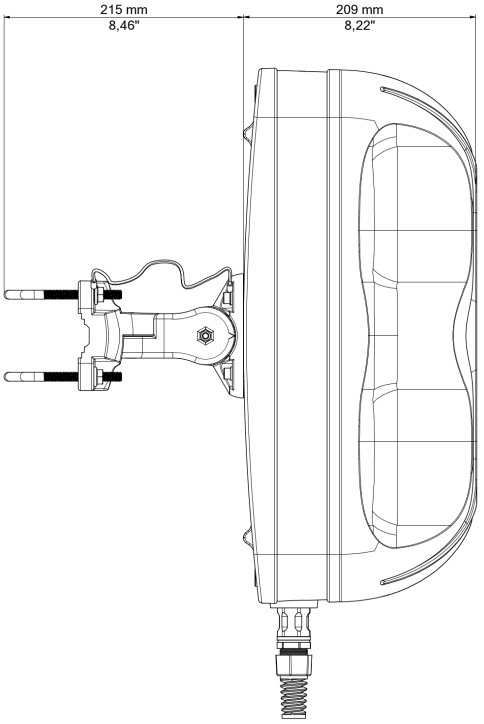


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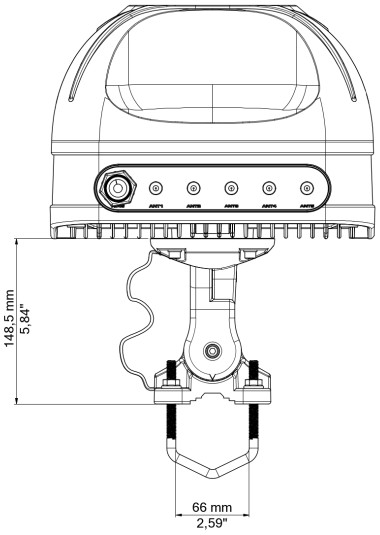


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