



THDR50

Thunder Series

Integrated Multi-Band 5G/LTE Directional Antenna
for DIGI EX50

- Integrated Multi-Band 5G/LTE Directional Antenna
- Multi Band 5G/LTE Antennas
- Cavity to install DIGI EX50 Router

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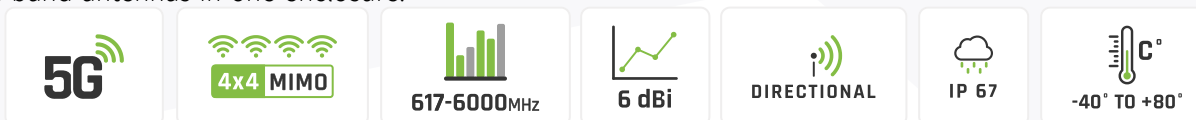


Thunder Series THDR50

Integrated 5G/LTE Directional Antenna for DIGI EX50

INTEGRATED MULTI-BAND 5G/LTE DIRECTIONAL ANTENNA + PLACE TO INSTALL DIGI EX50 (ALL-IN-ONE)

The Taoglas THDR50 antenna for DIGI EX50 routers is a perfect outdoor device for improving the signal in rural/suburban and locations where the mobile signals are weak. It has embedded directional 5G/LTE antennas. If you use a EX50 router with a THDR50 antenna, you get a complete integrated solution with embedded router and multi-band antennas in one enclosure.



OUTDOOR ANTENNA WORKS IN **ANY**
WEATHER CONDITIONS, IP67



MOUNTING SYSTEM WITH TWO
PLANES, 60 DEGREES REGULATION



ANTENNA PERFECTLY MATCHED WITH
THE DIGI EX50



ALL ANTENNAS AND DIGI ROUTER
INTEGRATED IN ONE ENCLOSURE



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
PORTED 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
PORTED 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
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
VSWR	<2.00, max <3.00
BEAMWIDTH	80°/80° ±15°
POLARIZATION	X (+/-45degrees)
IMPEDANCE	50 Ω



MECHANICAL SPECIFICATION

MATERIALS	ABS, aluminum, PTFE, Fiberglass
INGRESS PROTECTION	IP67
CONNECTOR TYPE	RJ45
DIMENSIONS	480 x 290 x 175 mm 18.9 x 11.40 x 6.87 inch
WEIGHT	2.8 kg 6.17 lbs
OPERATING TEMPERATURE	From -40°C to 80°C From -40°F to 176°F
ENCLOSURE RECOMMENDED TIGHTENING TORQUE	0,6 - 0,8 Nm
MAST DIAMETER	25-66 mm 0.98-2.60 inch



FREQUENCY BANDS

LTE / 4G

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						

617 MHz 6000 MHz

5G

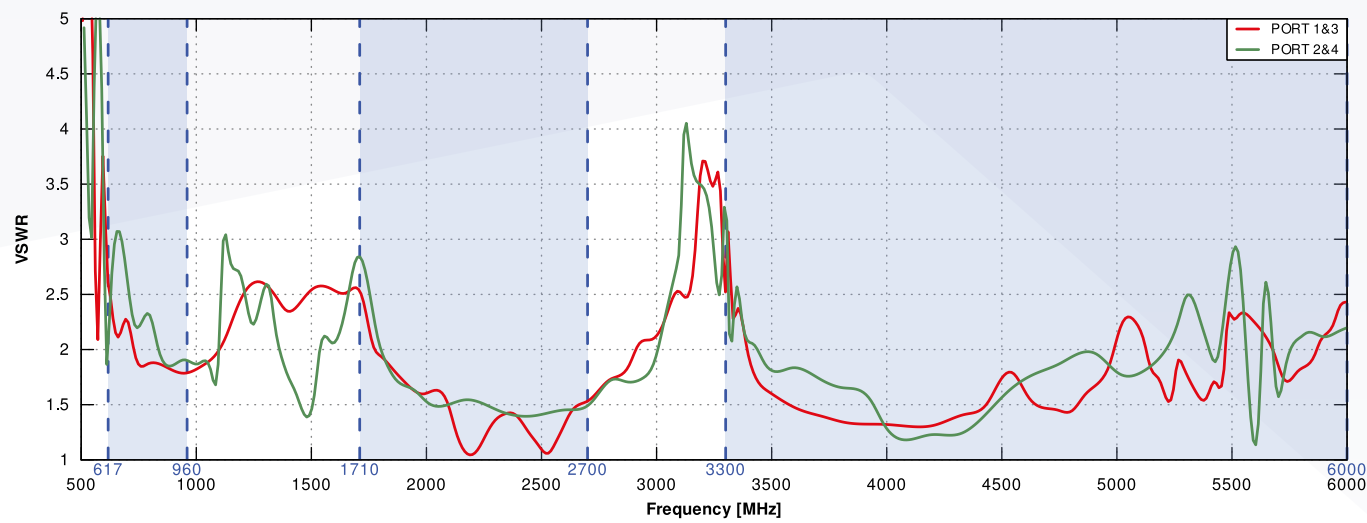
n1	n2	n3	n5	n7	n8	n12
n13	n14	n18	n20	n25	n26	n28
n29	n30	n34	n38	n39	n40	n41
n46	n47	n48	n53	n65	n66	n67
n71	n77	n78	n80	n81	n82	n83
n84	n85	n86	n89	n90	n95	n97
n98	n100	n101	n256			

617 MHz 6000 MHz

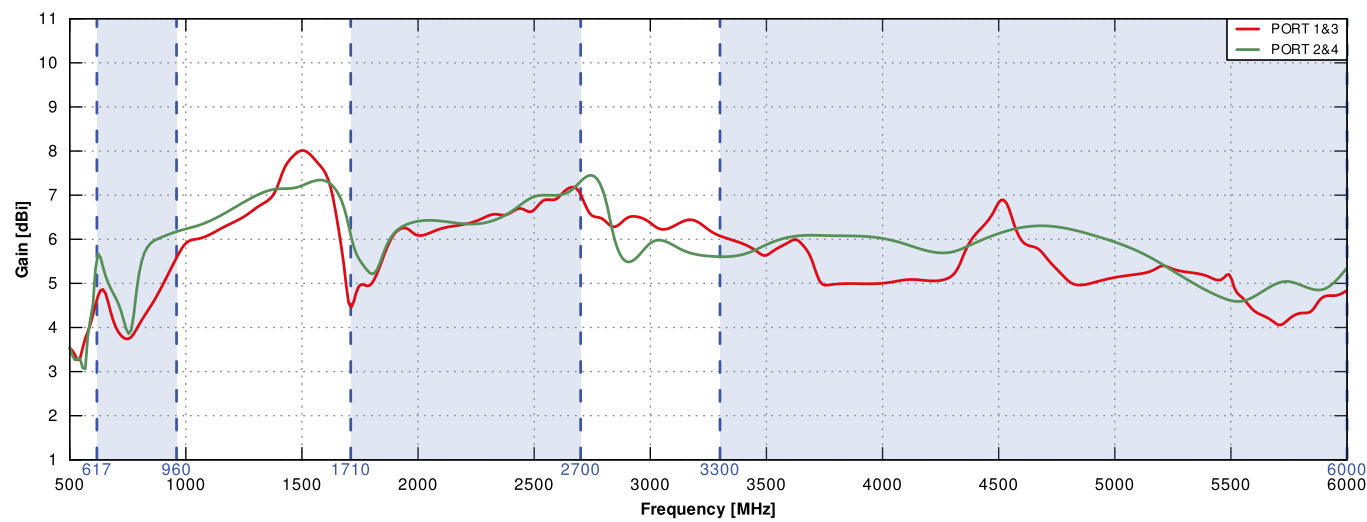


PLOTS

5G/LTE VSWR

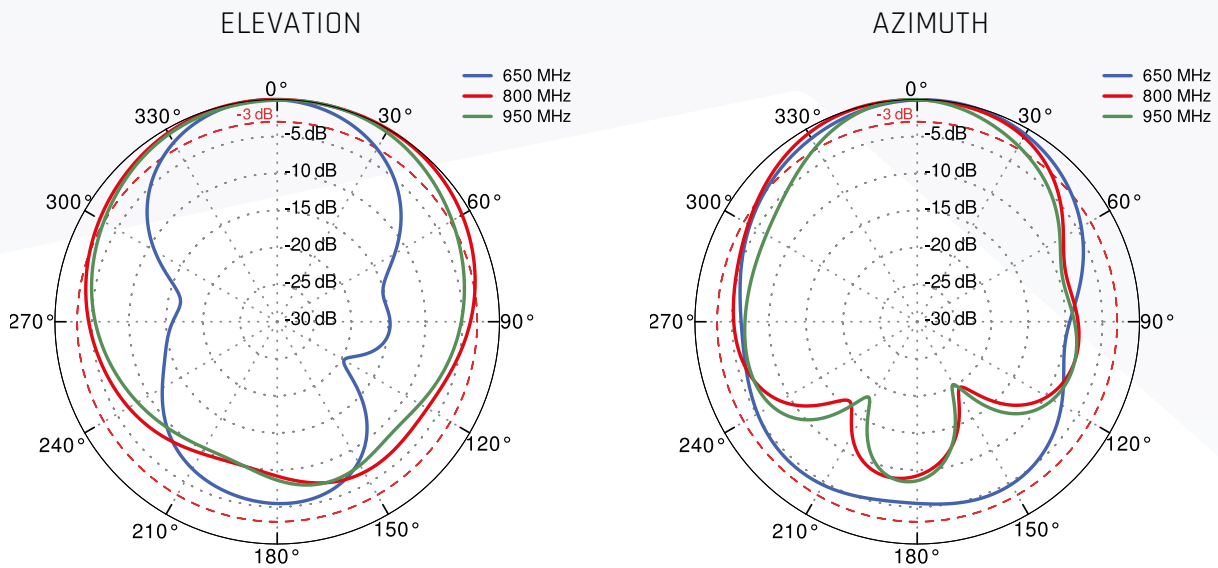


5G/LTE Gain

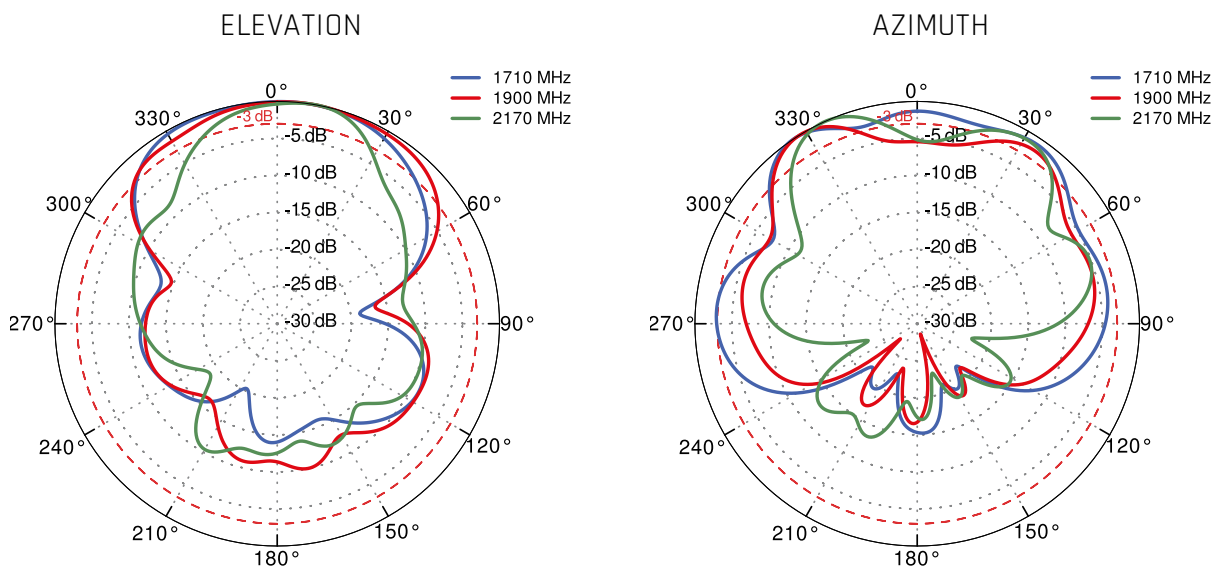




PORT 1&3 - 5G/LTE From 650MHz to 950MHz

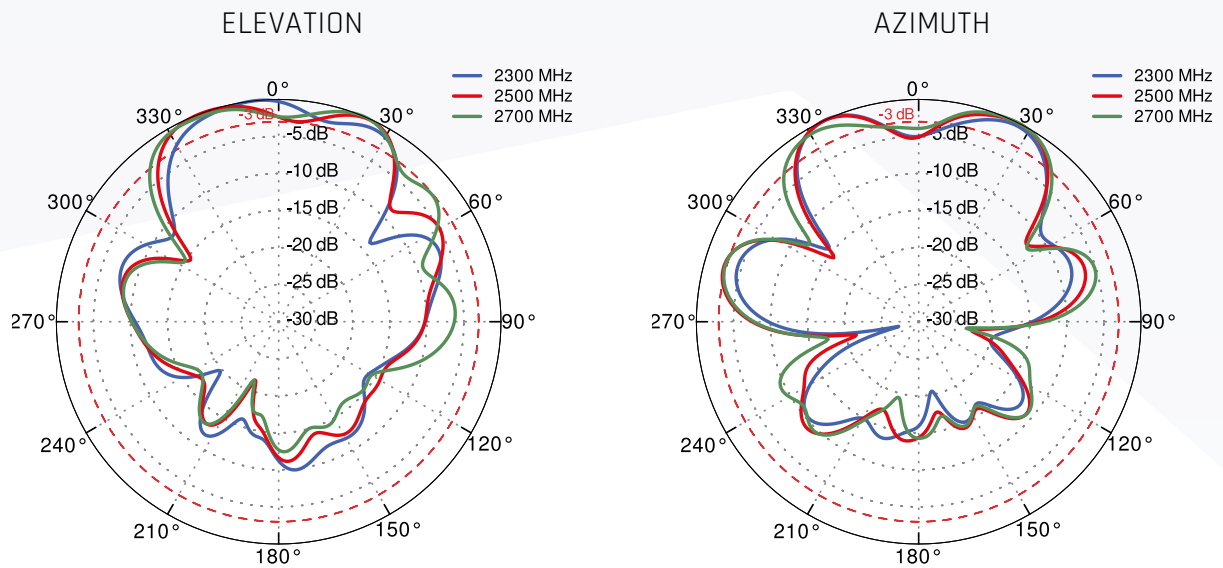


PORT 1&3 - 5G/LTE From 1.71GHz to 2.17GHz

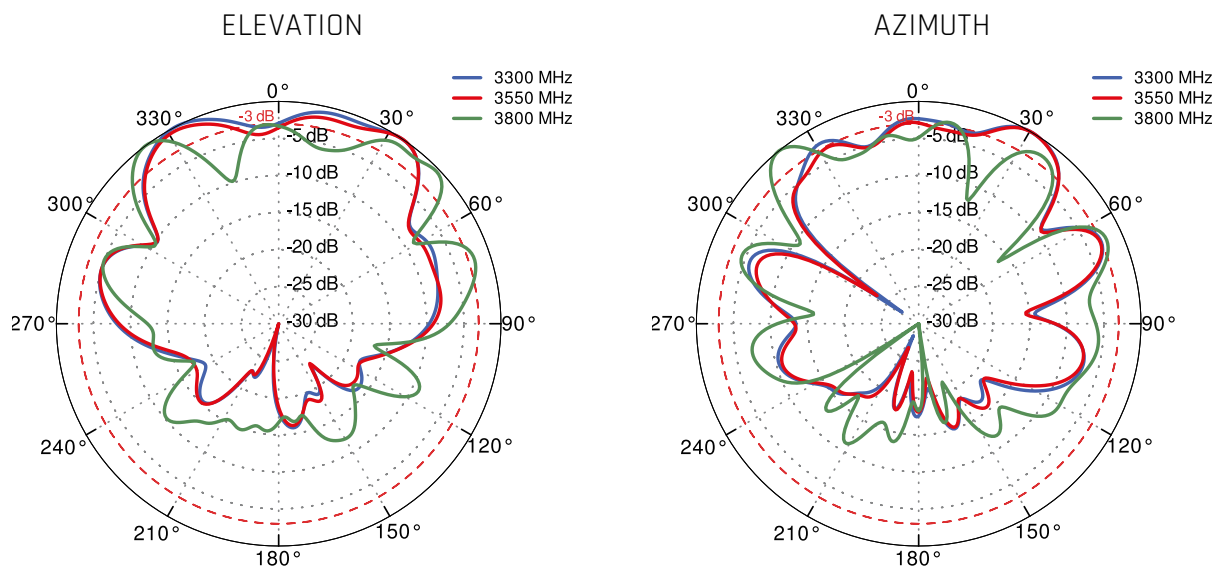




PORT 1&3 - 5G/LTE From 2.3GHz to 2.7GHz

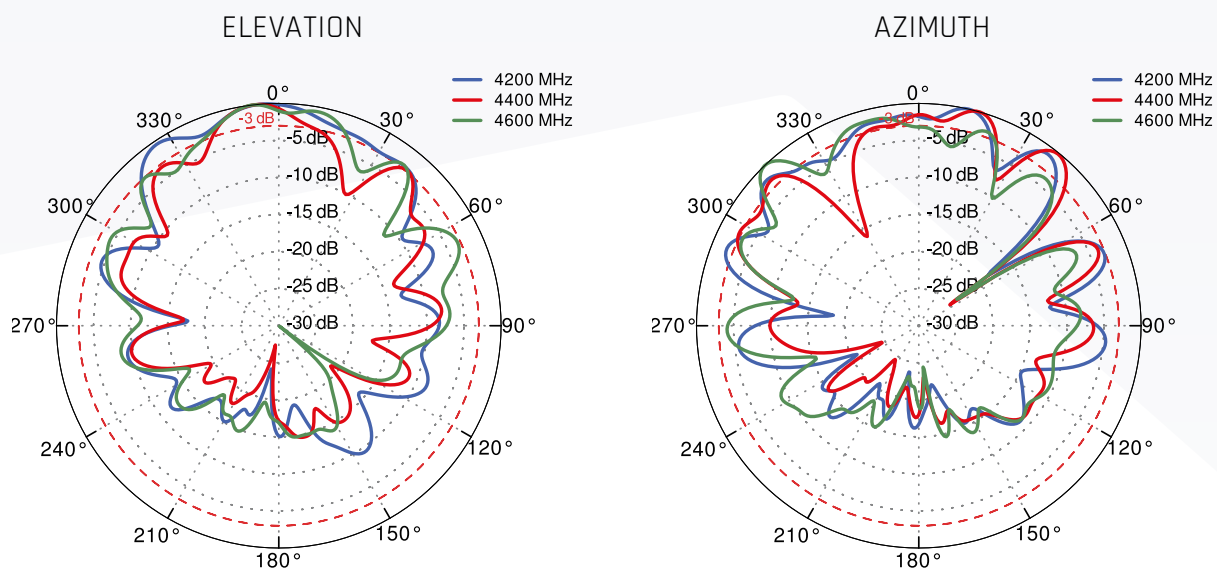


PORT 1&3 - 5G/LTE From 3.3GHz to 3.8GHz

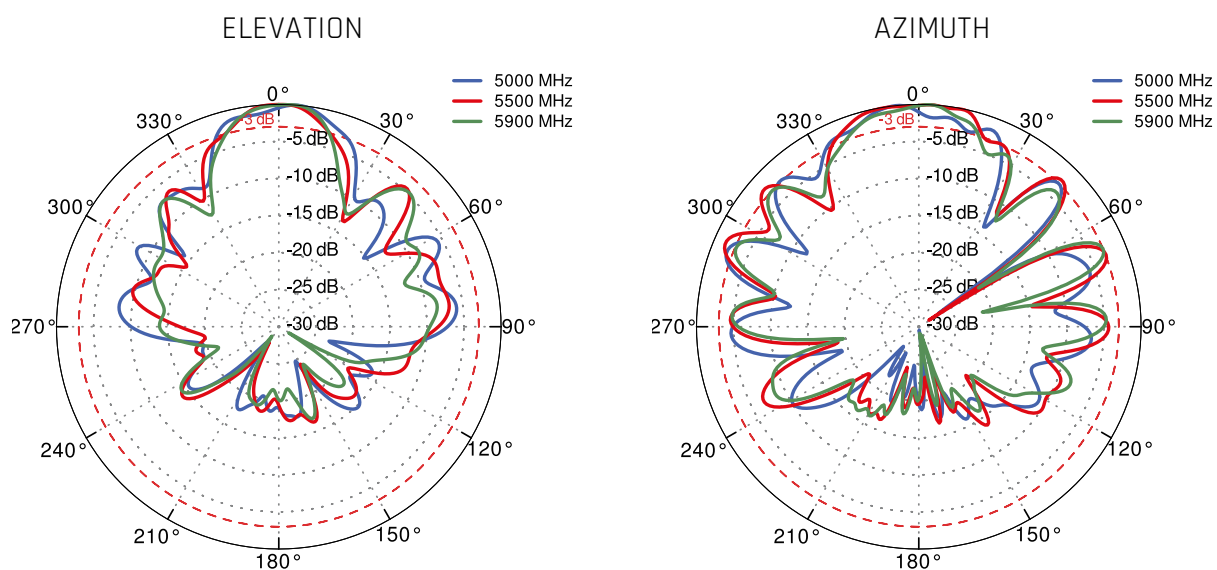




PORT 1&3 - 5G/LTE From 4.2GHz to 4.6GHz

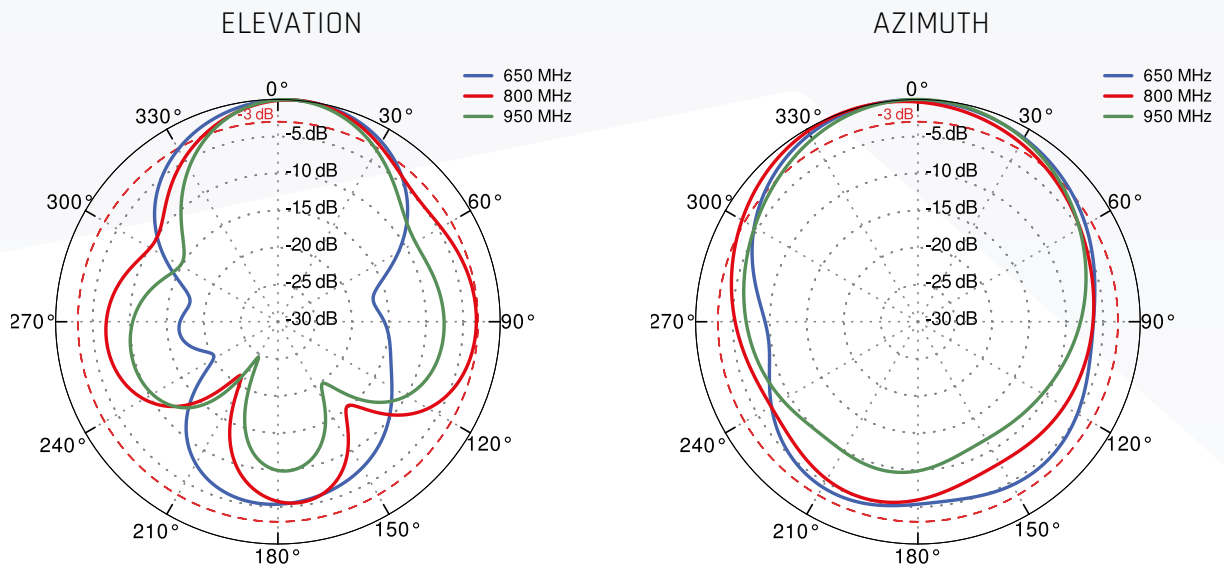


PORT 1&3 - 5G/LTE From 5.0GHz to 5.9GHz

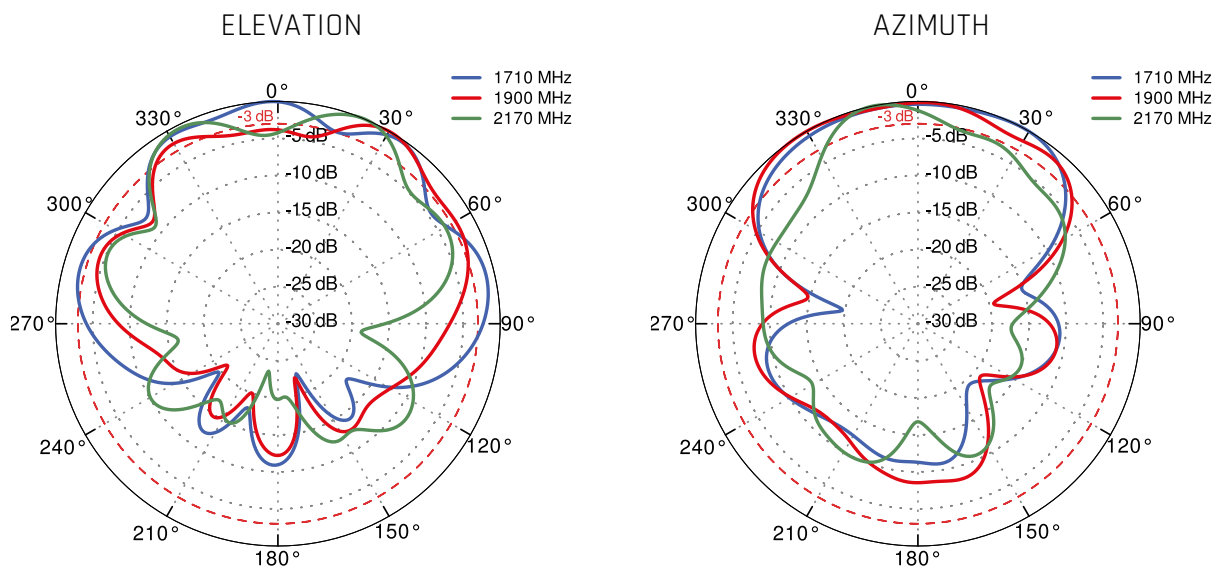




PORT 2&4 - 5G/LTE From 650MHz to 950MHz

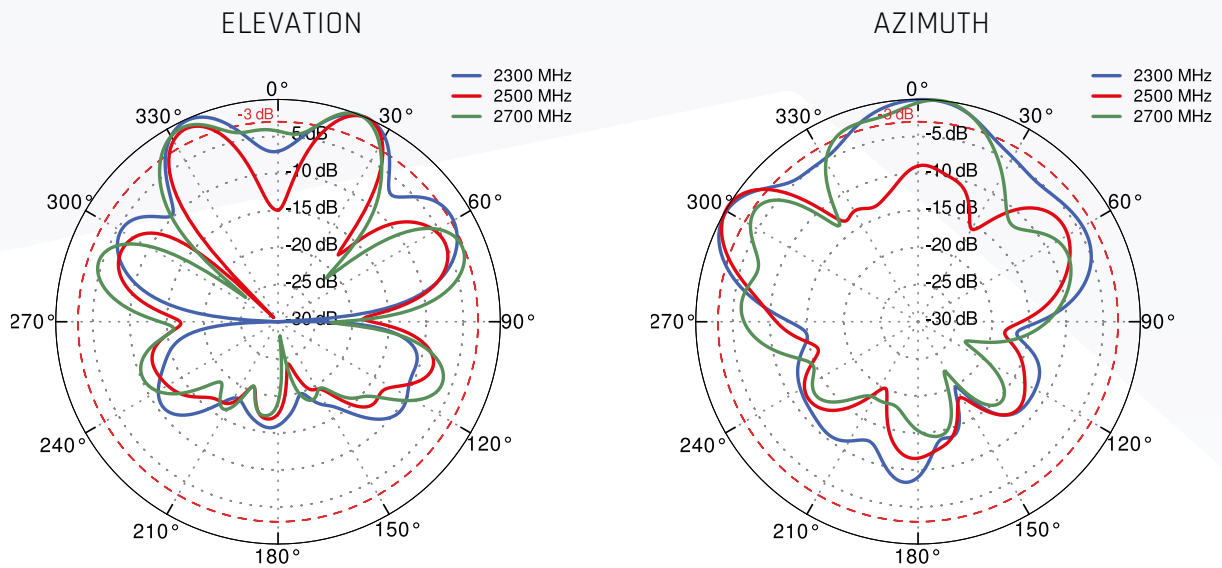


PORT 2&4 - 5G/LTE From 1.71GHz to 2.17GHz

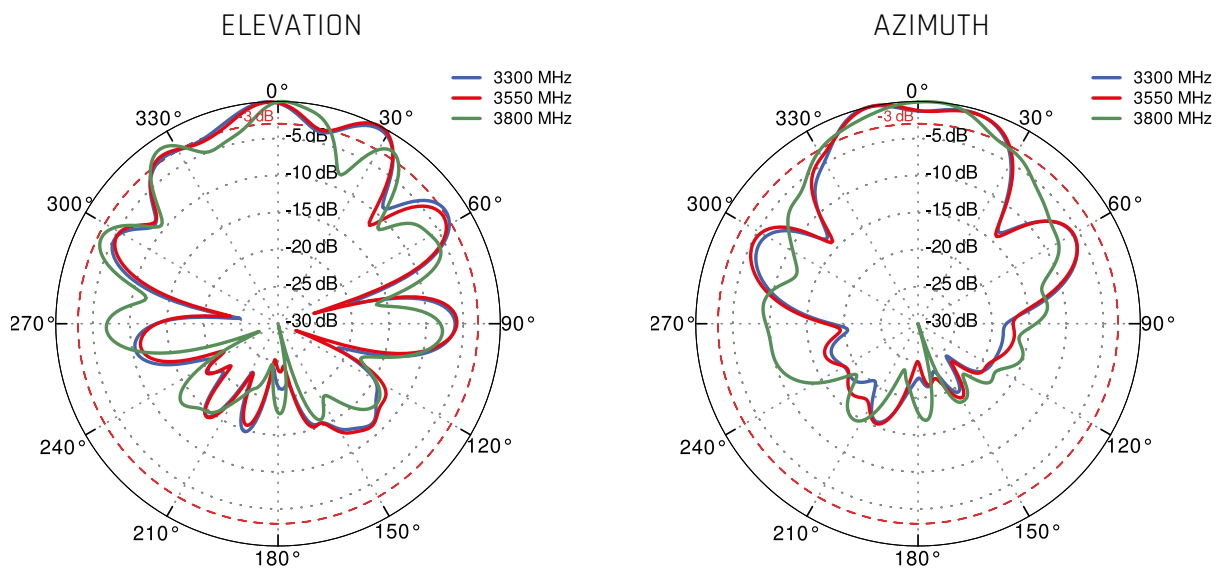




PORT 2&4 - 5G/LTE From 2.3GHz to 2.7GHz

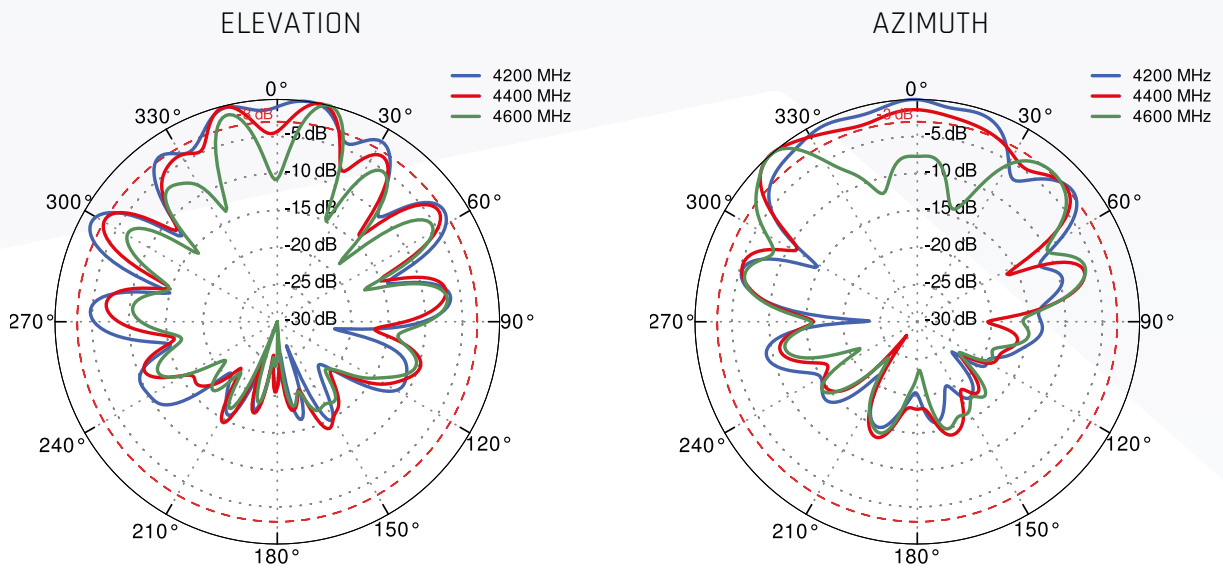


PORT 2&4 - 5G/LTE From 3.3GHz to 3.8GHz

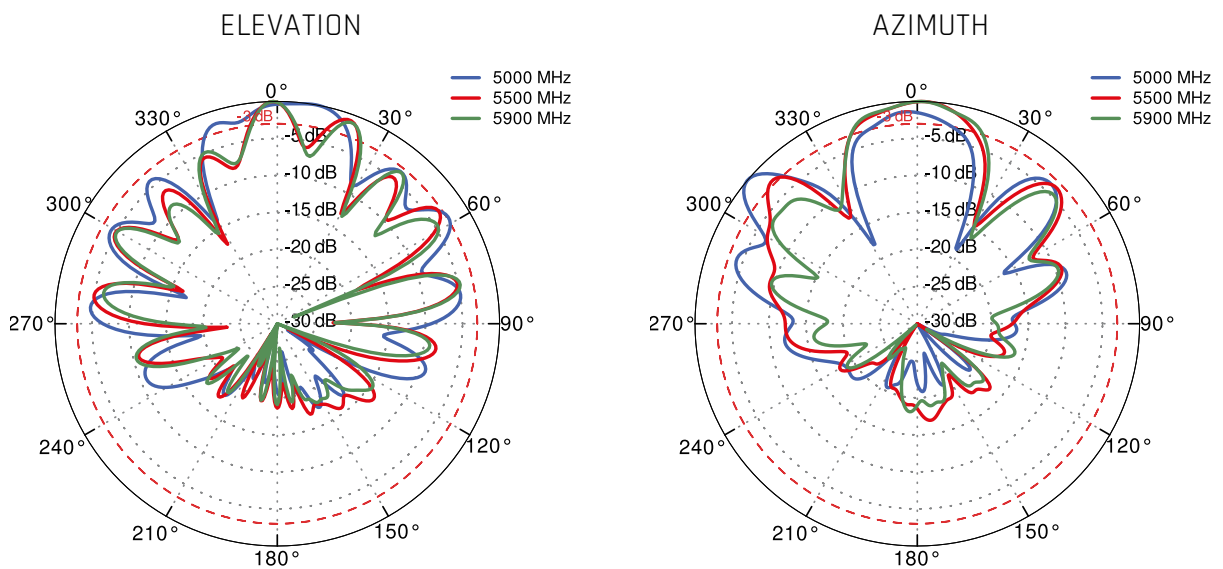




PORT 2&4 - 5G/LTE From 4.2GHz to 4.6GHz



PORT 2&4 - 5G/LTE From 5.0GHz to 5.9GHz





DIMENSIONS

