



THOR70PP

Thunder Series

Integrated 5G/LTE Omnidirectional Antenna
for Ericsson (Cradlepoint) S700

- Integrated Multi-Band 5G Omni Antenna
- Wi-Fi Omni Antenna + GNSS Antenna
- Cavity to install Ericsson (Cradlepoint) S700 Router



Contents

Page:	Section:
3	Introduction
4	Specifications
5	Mechanical Specifications
6	Plots
15	Dimensions



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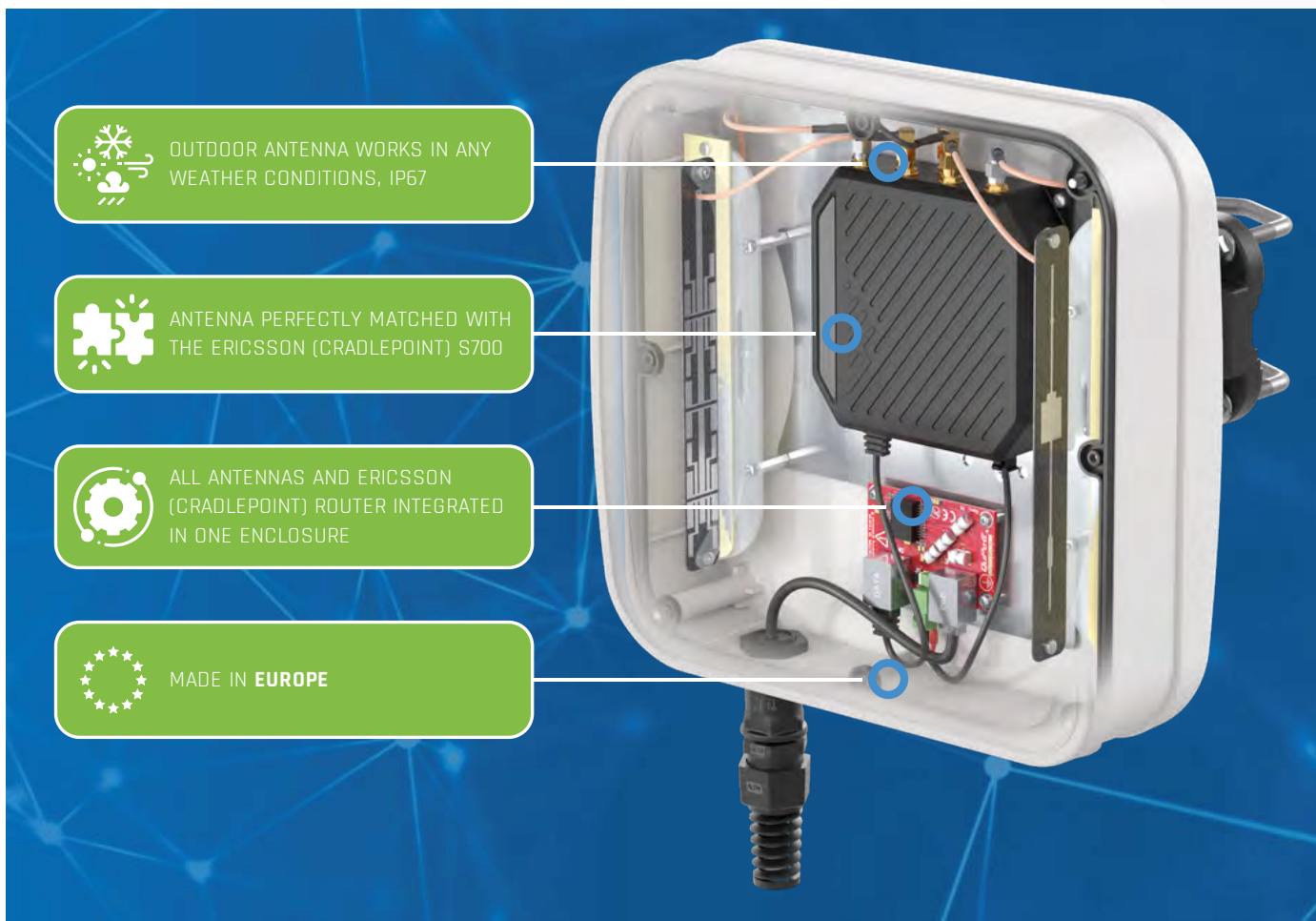
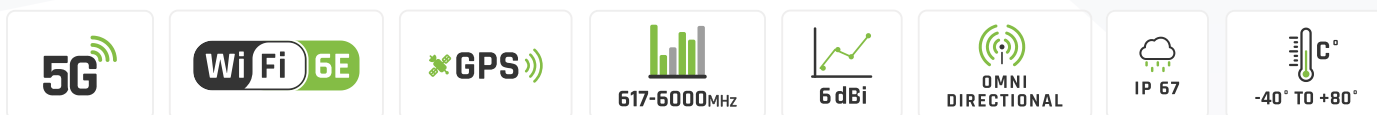


Thunder Series THOR70PP

Integrated Omnidirectional Antenna for Ericsson (Cradlepoint) S700

INTEGRATED MULTI-BAND 5G OMNI ANTENNA + WIFI OMNI ANTENNA + GNSS ANTENNA+ PLACE TO INSTALL ERICSSON (CRADLEPOINT) S700 (ALL-IN-ONE)

The Taoglas **THOR70** all-in-one antenna for Ericsson (Cradlepoint) S700 routers is a perfect outdoor device for mobile and fixed installations like industrial, public, CCTV, hotspots, yachts, boats, campers, and RVs. It has embedded 5G, Wi-Fi®, and GNSS antennas. If you use the Ericsson (Cradlepoint) S700 with THOR70 Thunder Omnidirectional antenna, you get an integrated complete solution with embedded router and multi-band antennas in one enclosure. The set contains a Passive PoE splitter, allowing you to split data and power from a single Ethernet cable and maintain gigabit transfer speeds while protecting the LAN port from damage caused by overvoltage, short circuit or improper connection.





5G / LTE ANTENNA SPECIFICATION

FREQUENCY	617 - 960 MHz 1.7 - 2.7 GHz 3.3 - 4.7 GHz 5.2 - 6.0 GHz
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, 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, 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	617 - 960 MHz : 3 dBi 1.7 - 2.2 GHz : 4 dBi 3.3 - 4.7 GHz : 4.5 dBi 5.2 - 6.0 GHz : 2.5dBi
VSWR	<1.80, max <2.00
BEAMWIDTH	360°/35° ±5°
POLARIZATION	Vertical
IMPEDANCE	50 Ω



WI-FI SPECIFICATION

FREQUENCY	2.4 - 2.5 GHz 5.0 - 7.2 GHz
GAIN	2.4 - 2.5 GHz: 6dBi 5 GHz: 7.5dBi 7 GHz: 7.5dBi
VSWR	< 1.50, max < 2.00
BEAMWIDTH	360°/25° +/- 5°
POLARIZATION	Vertical
IMPEDANCE	50Ω

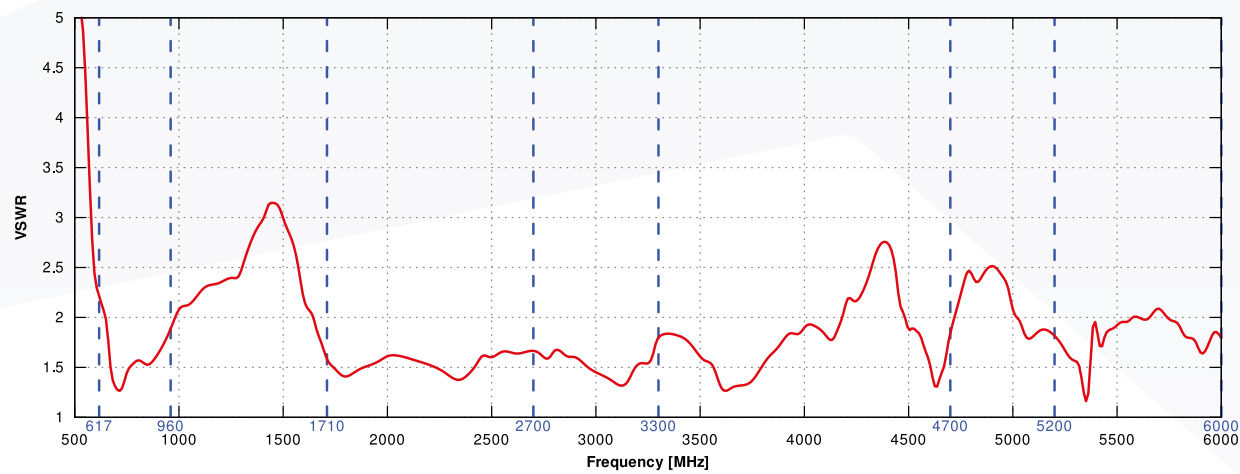
MECHANICAL SPECIFICATION

MATERIAL	ABS, aluminum, PTFE, Fiberglass
INGRESS PROTECTION	IP67
CONNECTOR TYPE	RJ45
DIMENSIONS	272 x 276 x 100 mm 10.7 x 10.9 x 3.93 inch
WEIGHT	1.8 kg 3.97 lbs
OPERATING TEMPERATURE	From -40°C to 75°C From -40°F to 167°F
ENCLOSURE RECOMMENDED TIGHTENING TORQUE	0,6 - 0,8 Nm

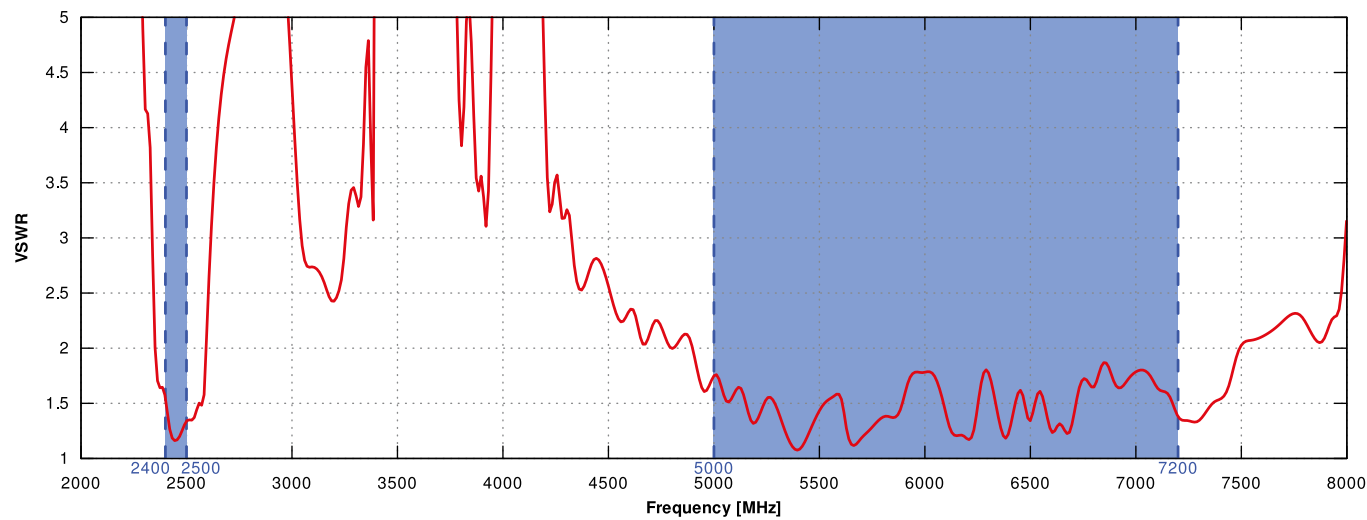


PLOTS

VSWR for 5G/LTE antenna

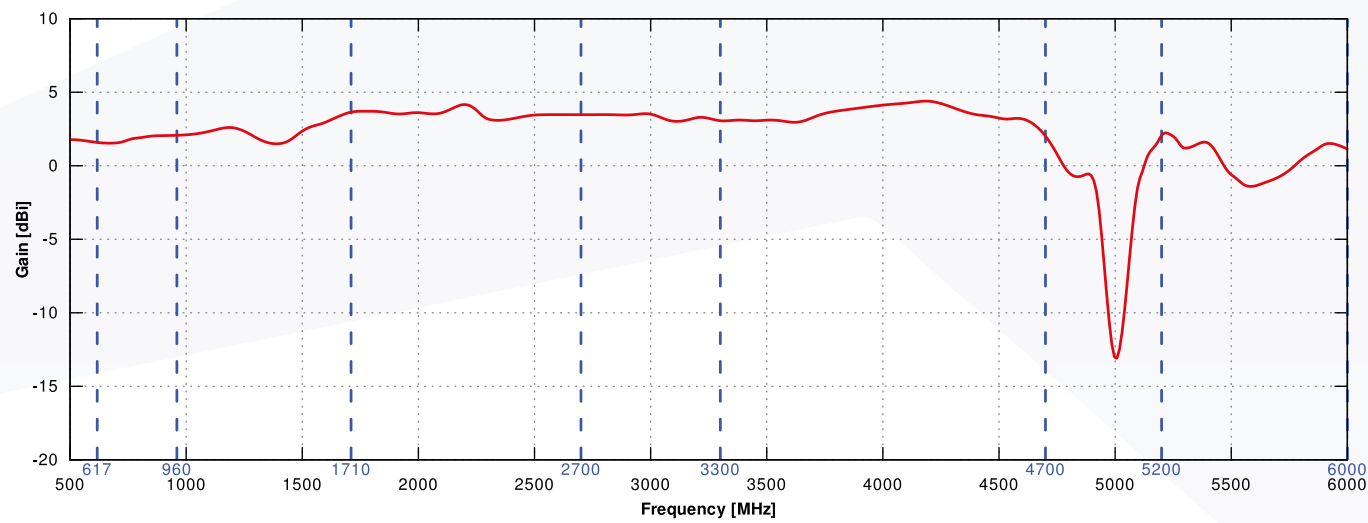


VSWR for Wi-Fi antenna

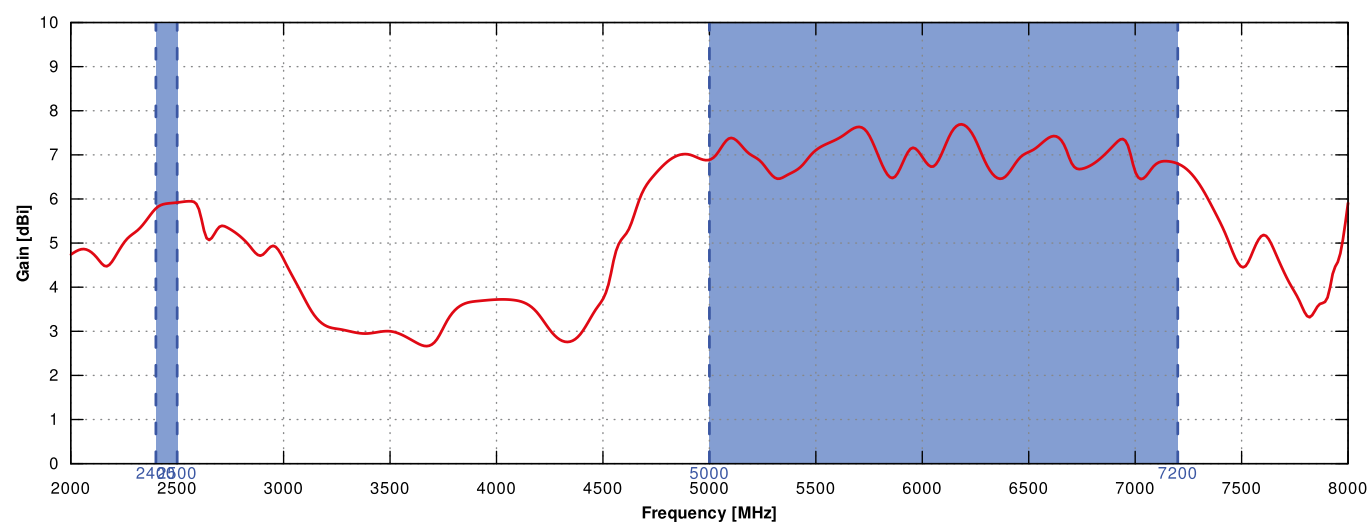




Gain for 5G/LTE antenna

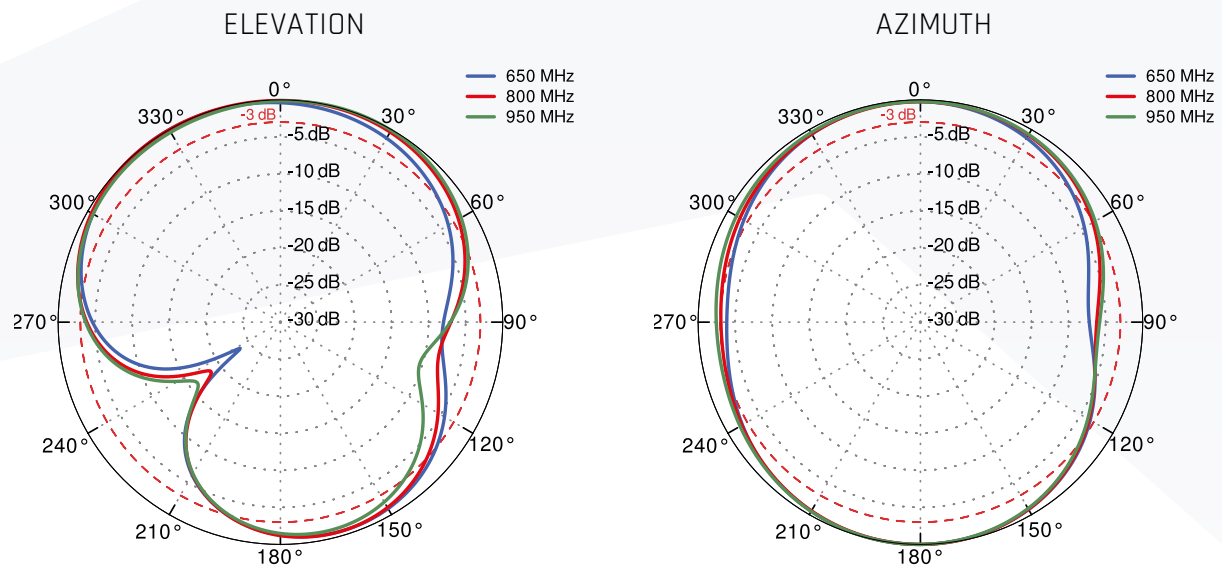


Gain for Wi-Fi antenna

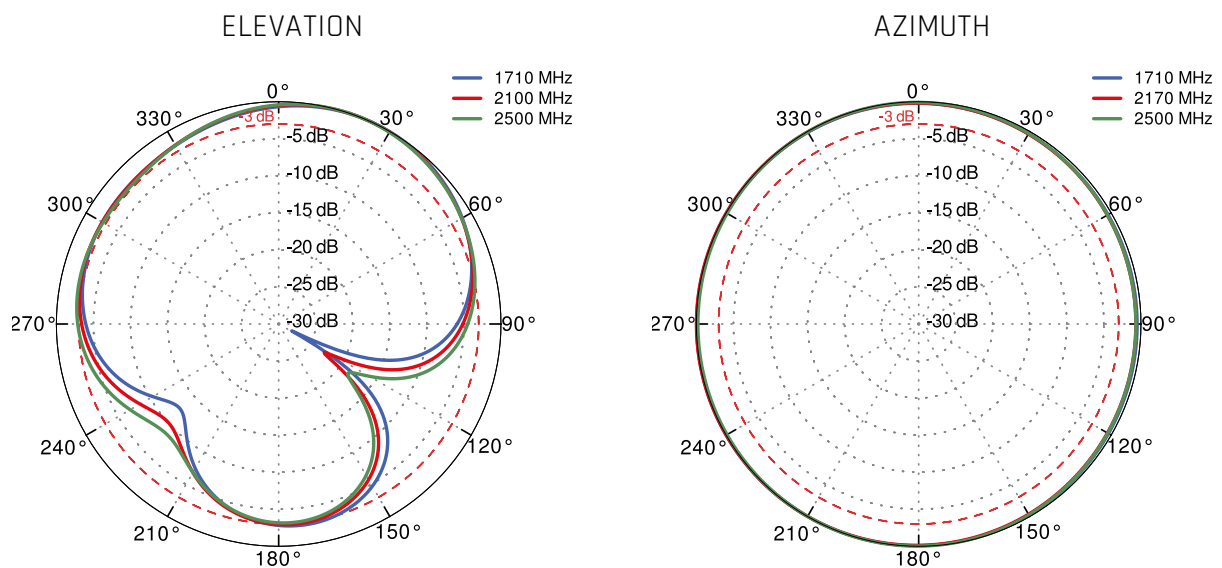




5G/LTE from 650MHz to 950MHz

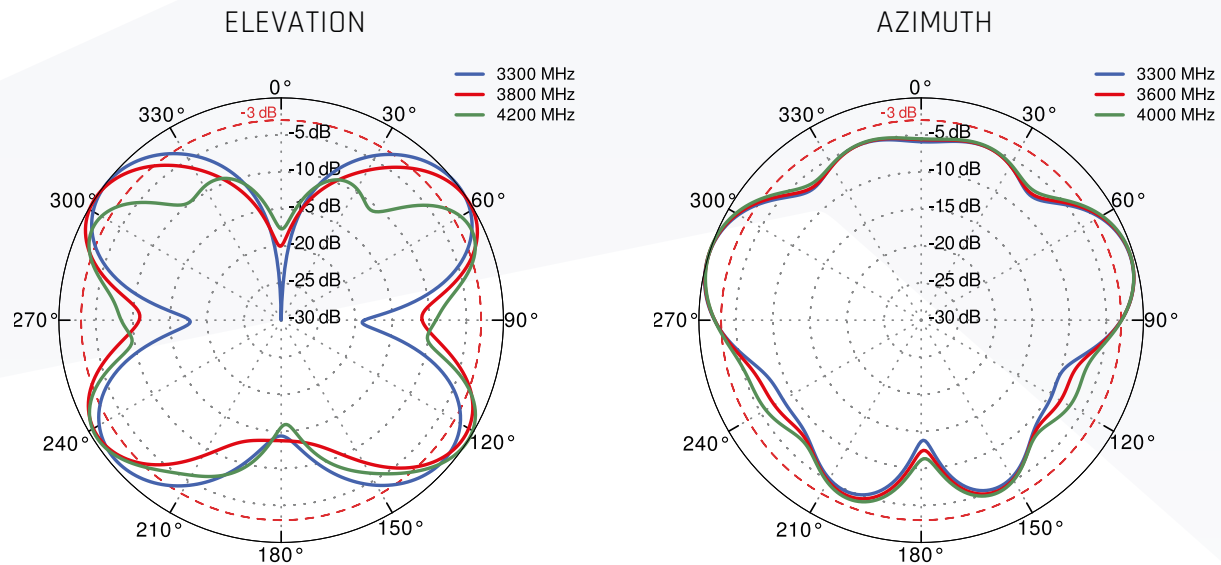


5G/LTE from 1.71GHz to 2.5GHz

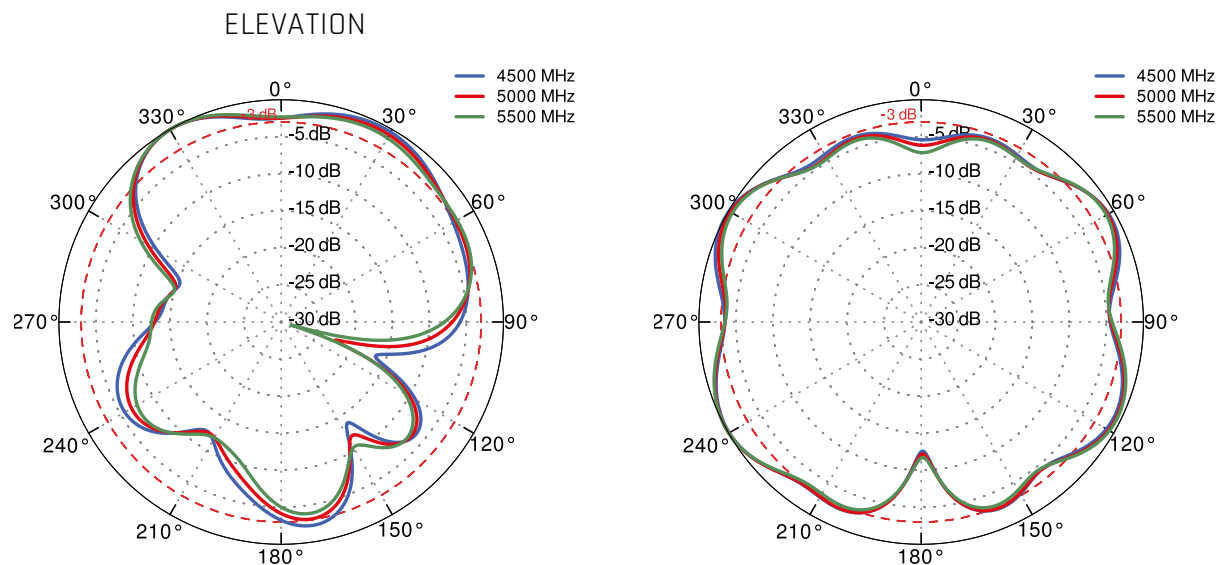




5G/LTE from 3.3GHz to 4.2GHz

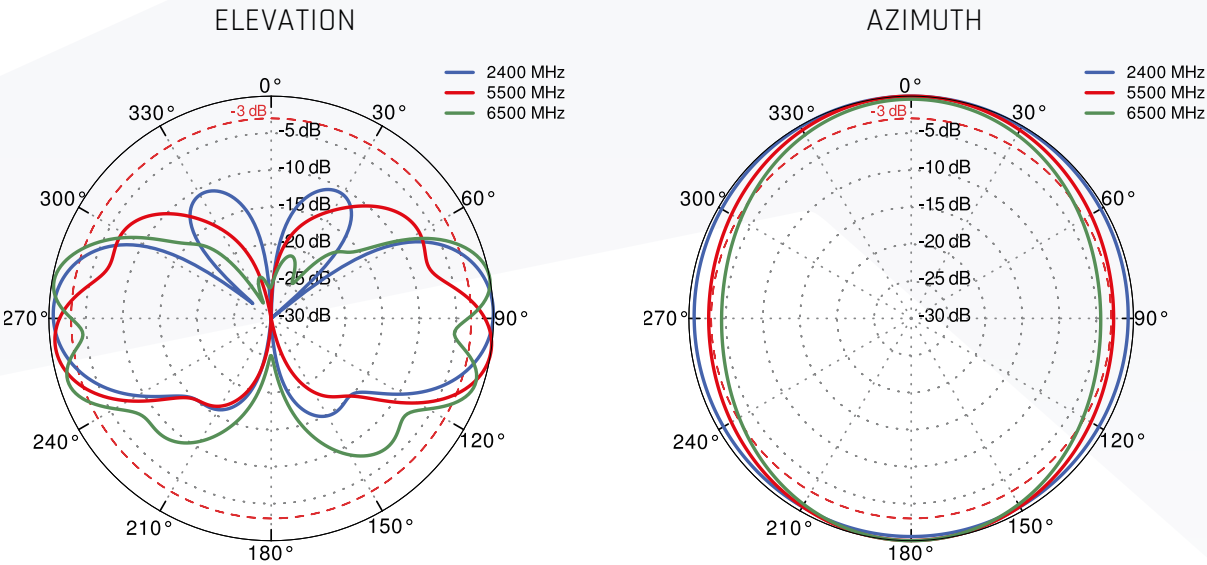


5G/LTE from 4.5 GHz to 5.5 GHz





Wi-Fi 2.4GHz - 5GHz





GNSS Specifications

GNSS Frequency Band							
GPS/QZSS	L1	L2	L5	L6			
	1575.42MHz	1227.6MHz	1176.45MHz	1278.75MHz			
	☒	☐	☐	☐			
GLONASS	L5R	L3PT	L2PT	L1CR	L1PT		
	1176.45MHz	1201.5MHz	1246MHz	1575.42MHz	1602MHz		
	☐	☐	☐	☒	☒		
Galileo	E5a	E5b	E4	E3	E6	E2	E1
	1176.45MHz	1201.5MHz	1215MHz	1256MHz	1278.75MHz	1561MHz	1575.42MHz
	☐	☐	☐	☐	☐	☐	☒
BeiDou	B1	B2	B3				
	1561MHz	1207.14MHz	1268.52MHz				
	☒	☐	☐				
Compass	E5B(B2)/ E6(B3)	E2(B1)					
	1268.56MHz	1561MHz					
	☐	☒					
SBAS	Omnistar	WAAS/EGN OS					
	1542.5MHz	1575.42MHz					
	☐	☒					

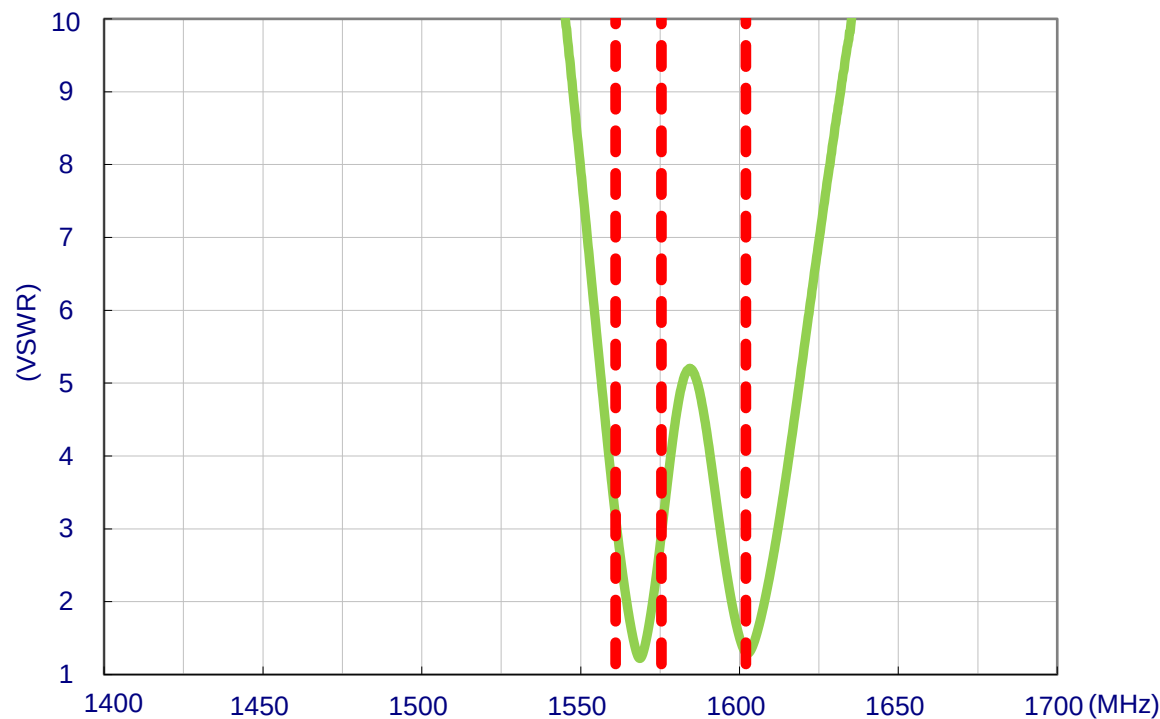
Electrical			
Frequency	BeiDou	GPS/GALILEO	GLONASS
	1561MHz	1575.42MHz	1602MHz
Efficiency (%)	49.8	46.5	60.1
Average Gain (dBi)	-3.03	-3.33	-2.21
Peak Gain (dBi)	2.44	1.72	1.67
Impedance	50Ω		
Polarization	RHCP		



LNA Specification			
Gain (dB)	14.8 ± 1	15.0 ± 1	15.0 ± 1
NF (dB)	2.4 ± 0.2	1.9 ± 0.2	2.2 ± 0.2
Input Voltage	+1.8 to +5 VDC		
Power Consumption	3 to 24.5mA typical		
Out-Of-Band Attenuation (dB)	10-500MHz		> 60
	500-850MHz		> 40
	850-1000MHz		> 35
	1000-1500MHz		> 25
	1700-2300MHz		> 19
	2300-5000MHz		> 30
	5000-6000MHz		> 25

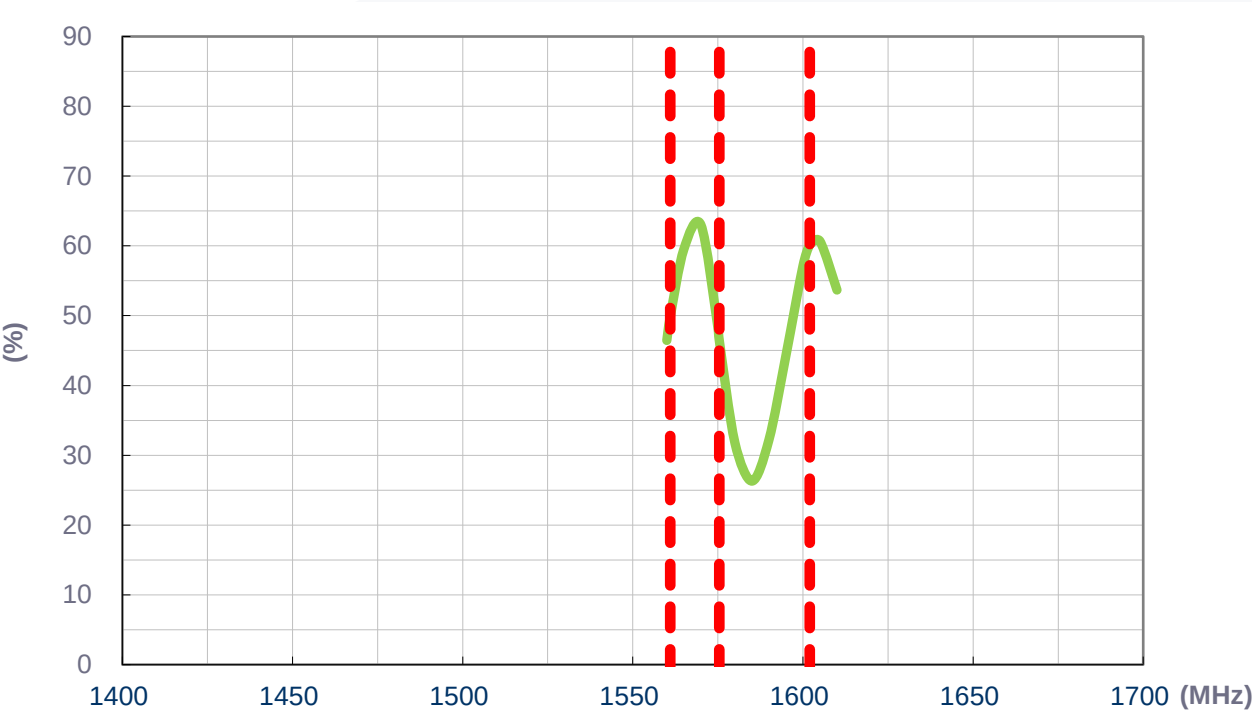
PLOTS

VSWR



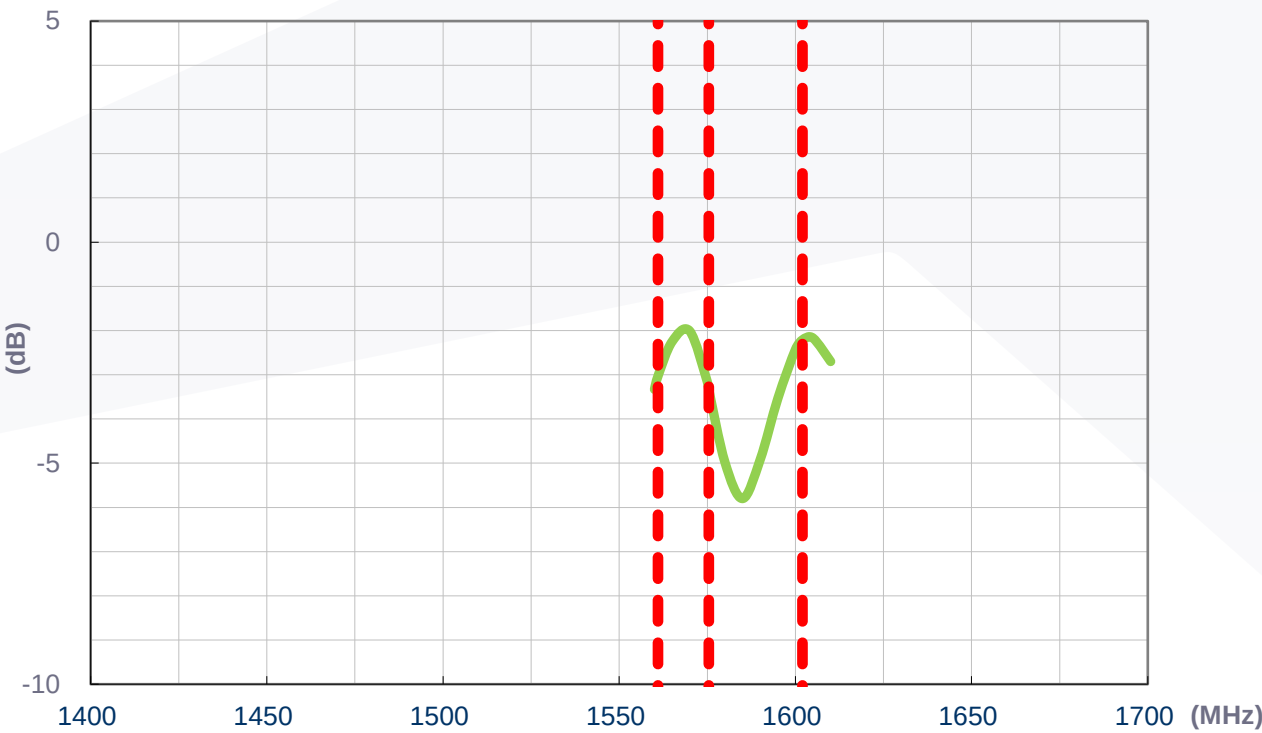


Efficiency

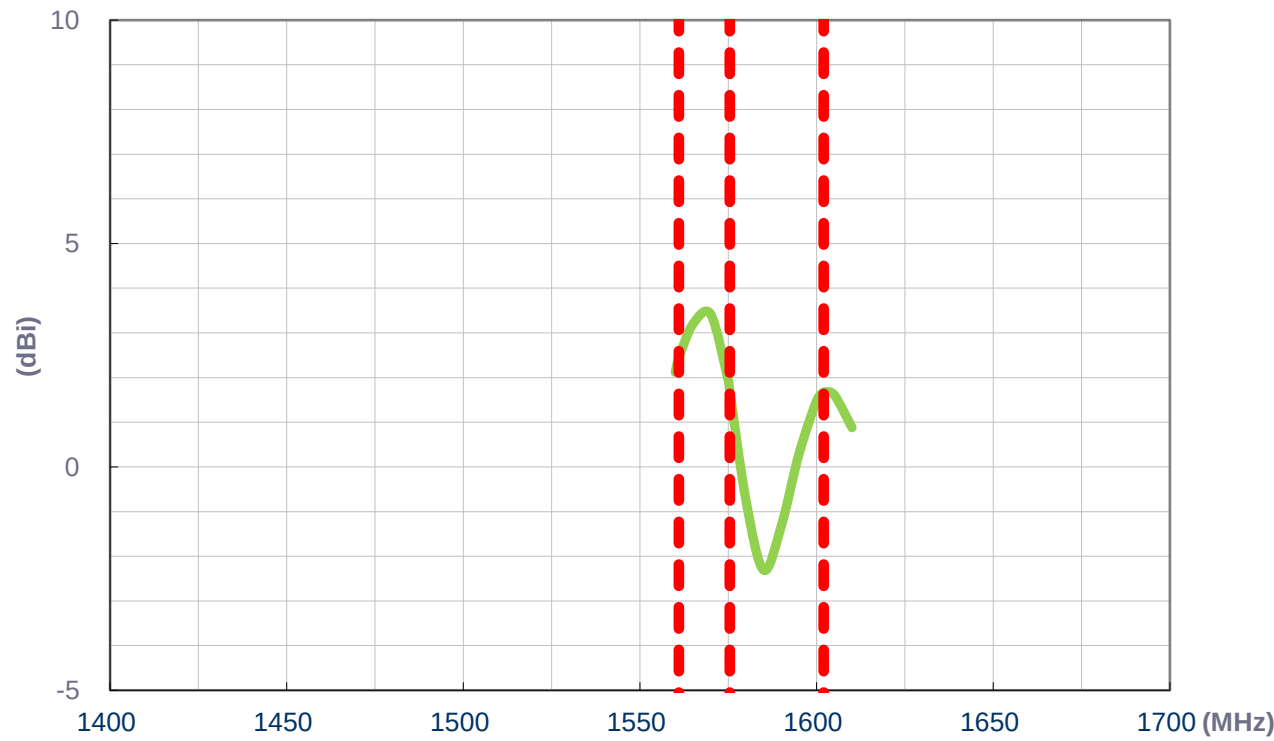




Average Gain



Peak Gain





DIMENSIONS

