

Description: 3G 880-960/1710-2170MHz +
GNSS Antenna

Series: Internal FPC Antenna

PART NUMBER: W3915



Features:

- Cellular 880-960/1710-2170MHz
- GNSS 1575.42-1605MHz
- Radiator size 74x19mm
- Cable length 100mm
- U.FL compatible connectors
 - Port 1: Cellular
 - Port 2: GNSS

Applications:

- 2G, 3G radios with GNSS support
- Satellite navigation
- Telematics, Asset tracking
- Fleet management

Issue: 1730

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For more information:

Pulse Worldwide Headquarters
15255 Innovation Drive #100
San Diego, CA 92128
USA
Tel: 1-858-674-8100

Pulse/Larsen Antennas
18110 SE 34th St Bldg 2 Suite 250
Vancouver, WA 98683
USA
Tel: 1-360-944-7551

Europe Headquarters
Pulse GmbH & Co, KG
Zeppelinstrasse 15
Herrenberg, Germany
Tel: 49 7032 7806 0

Pulse (Suzhou) Wireless Products Co, Inc.
99 Huo Ju Road(#29 Bldg, 4th Phase
Suzhou New District
Jiangsu Province, Suzhou 215009 PR China
Tel: 86 512 6807 9998



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ELECTRICAL SPECIFICATIONS (1)

(1) Antenna attached on 2mm thick polycarbonate plate during electrical parameters' measurements

Frequency	Cellular:	880-960 MHz/1710-2170MHz
	GNSS:	1565-1605MHz
Nominal Impedance		50Ω
Return Loss 880-915 (925-960)		6dB (4dB)
Return Loss 1710-2170		8dB
Return Loss 1575-1605		8dB
Isolation Cellular-GNSS		15dB
Total Efficiency 880-960		50%
Total Efficiency 1710-2170		75%
Total Efficiency 1575-1605		55%
Peak Gain 880-960		1dBi
Peak Gain 1710-2170		2dBi
Peak Gain 1575-1605		0.5dBiC
Power withstanding		24dBm CW

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MECHANICAL SPECIFICATIONS

Weight	2.35 g
Radiator size	74 x 19 mm
Radiator thickness with adhesive tape	0.2 mm
Connector type	u.FL compatible
Cable type	Ø1.13 coaxial cable
Cable length	100mm
Mounting with adhesive tape	3M467

ENVIRONMENTAL SPECIFICATIONS

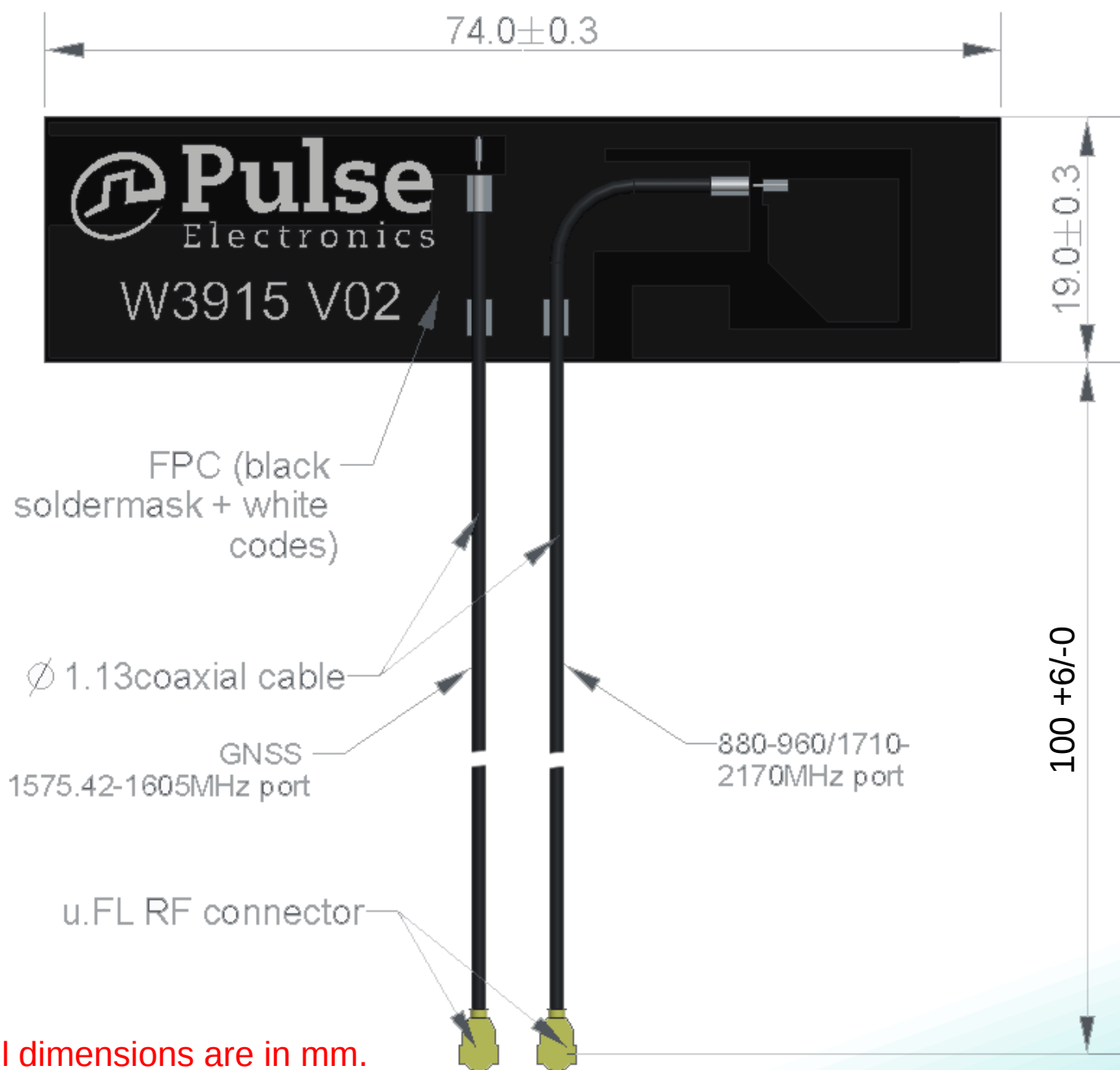
Operating temperature	-40 - +65 °C
Temperature	50 °C
Humidity	85%RH

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MECHANICAL DRAWING



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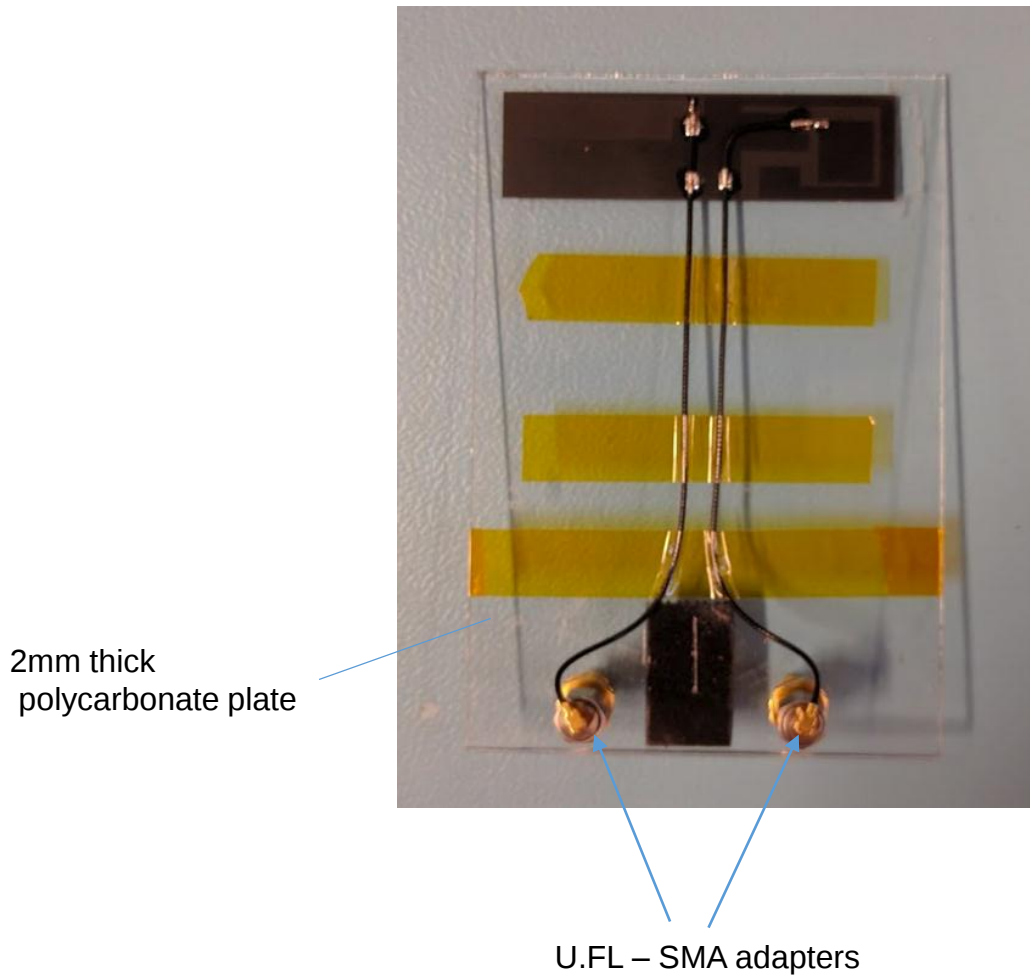
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OTHER SPECIFICATIONS

Test setup for all RF parameters

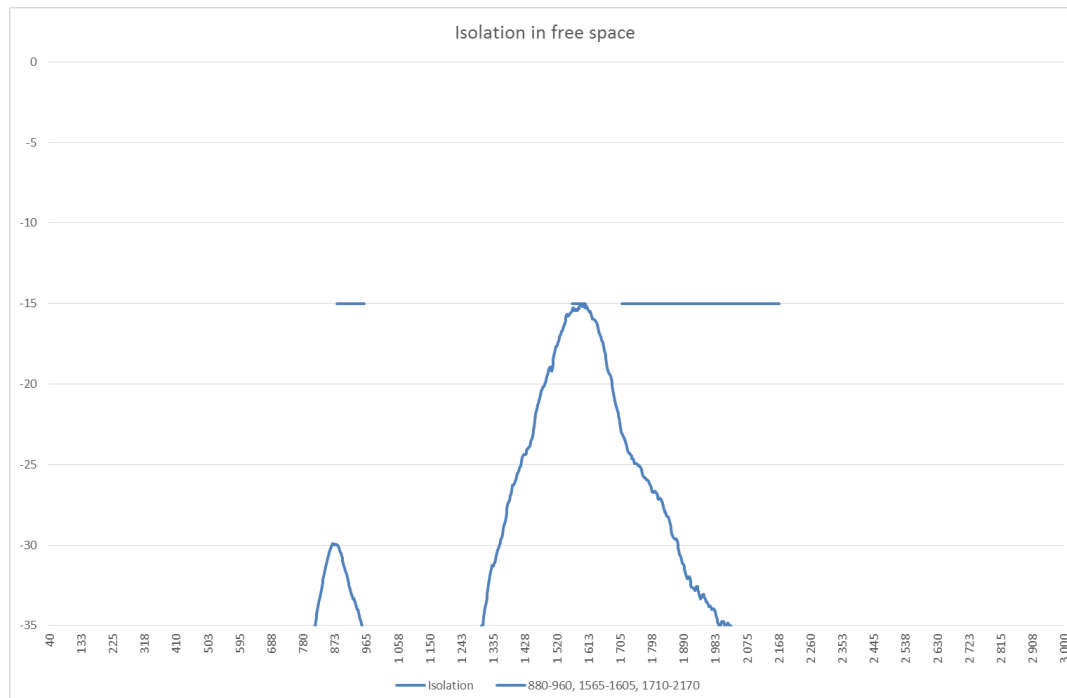


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CHARTS



(1) Antenna attached on 2mm thick polycarbonate plate during electrical parameters' measurements

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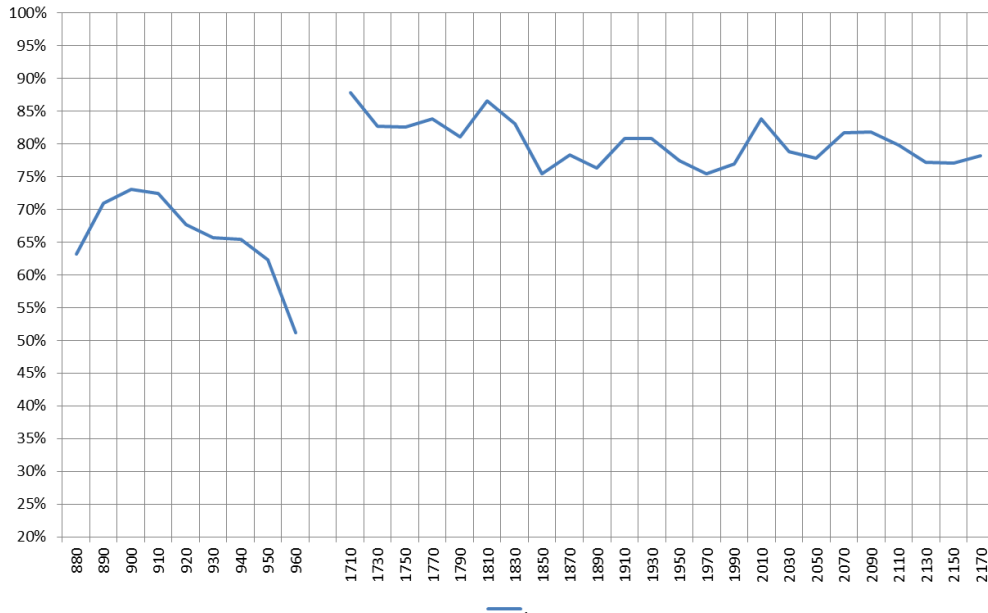
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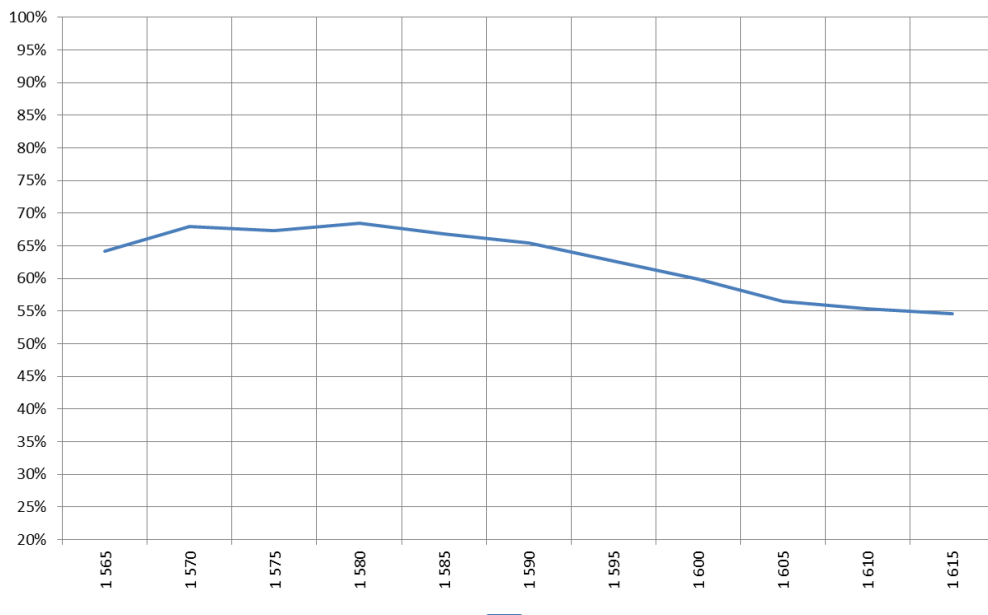
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CHARTS

Cellular Antenna Total Efficiency %



GNSS Antenna Total Efficiency %



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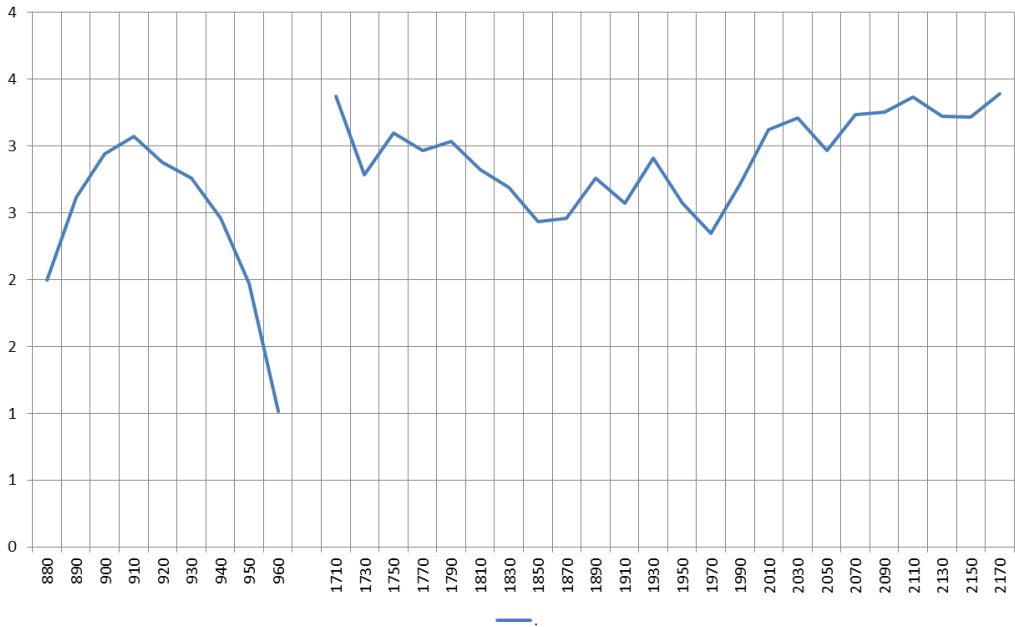
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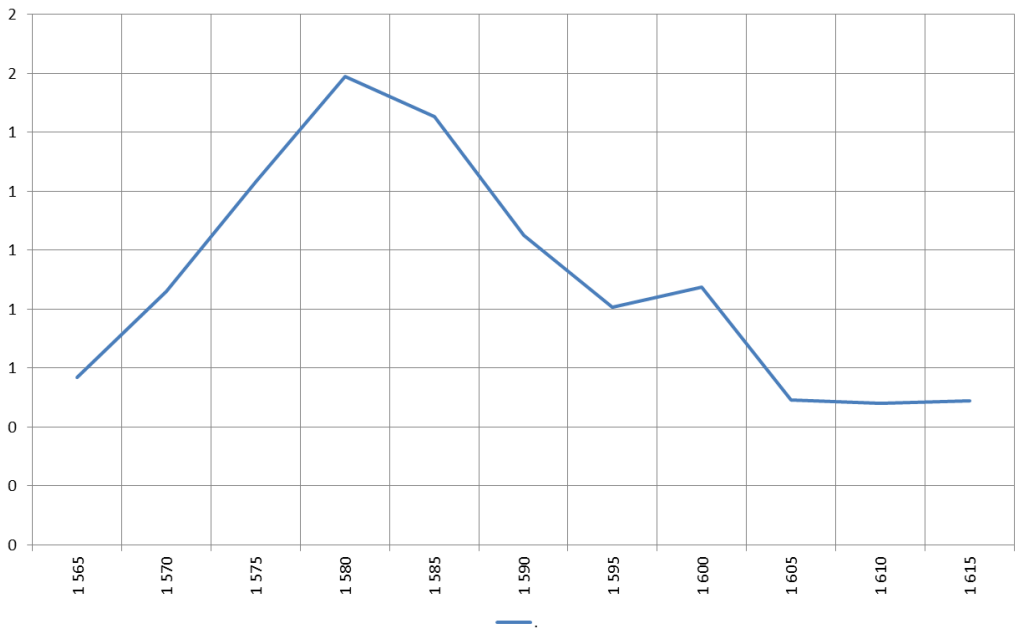
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CHARTS

Cellular Antenna Peak Gain, dBi



GNSS Antenna Peak Gain, dBiC



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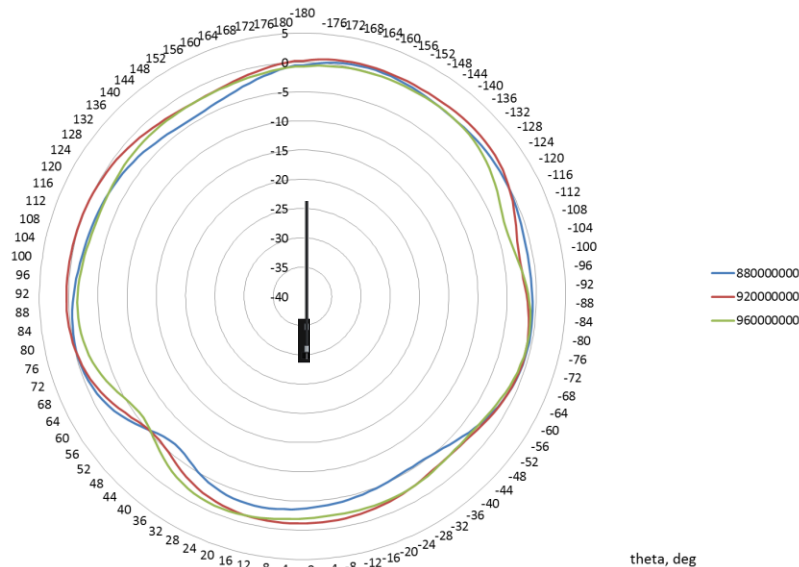
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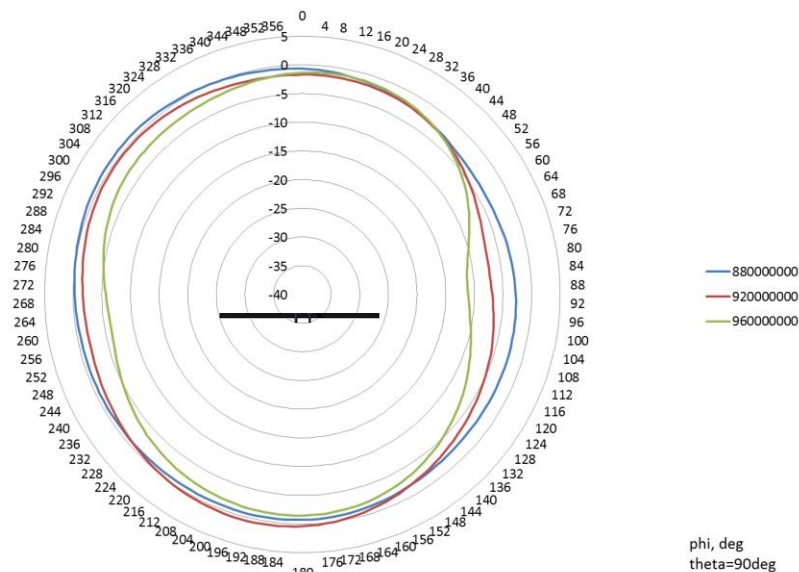
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CHARTS

Elevation



Azimuth plane



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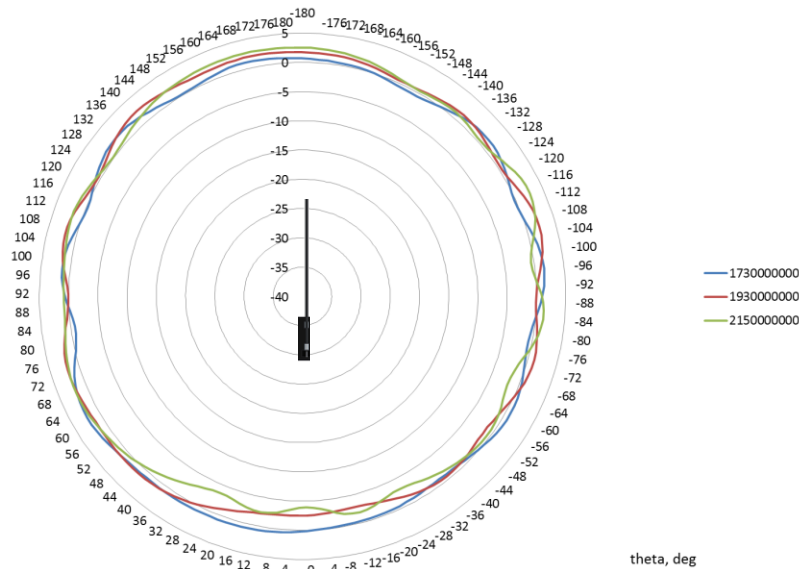
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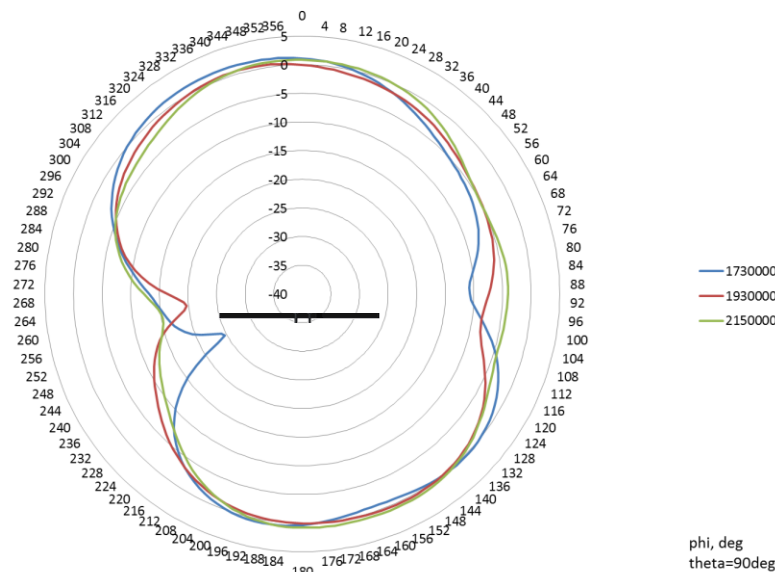
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CHARTS

Elevation



Azimuth plane



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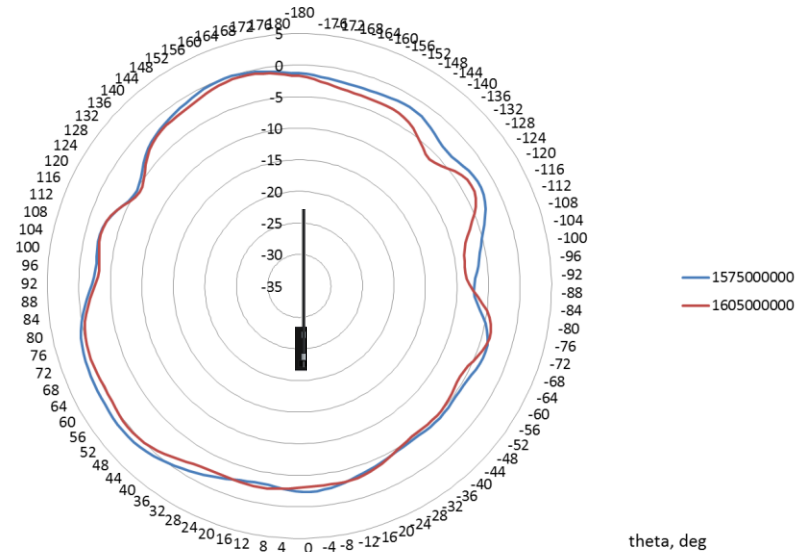
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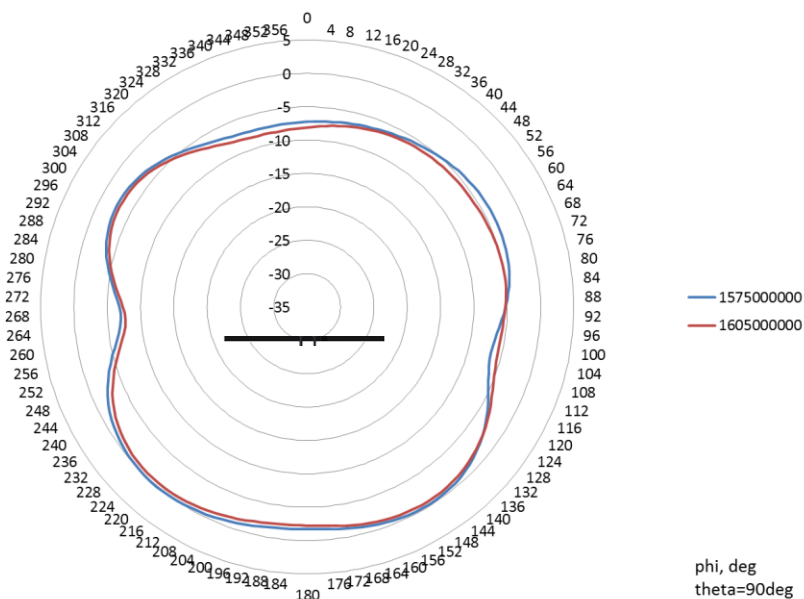
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CHARTS

GNSS elevation



GNSS Azimuth plane



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PACKAGING

25pcs antennas/sealed plastic bag, plastic bag size:
120mmx180mm;

1000pcs antennas/packing carton box, carton box
size:460mmx235mmx140mm.