

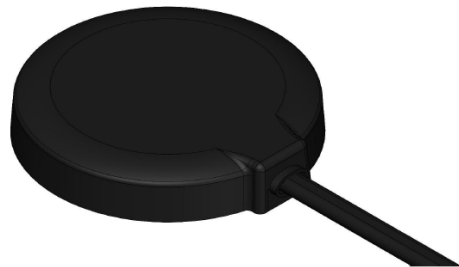
NANEA84X81PJVCGM5CF

GPS L1 & LTE MIMO External Active Antenna



Description

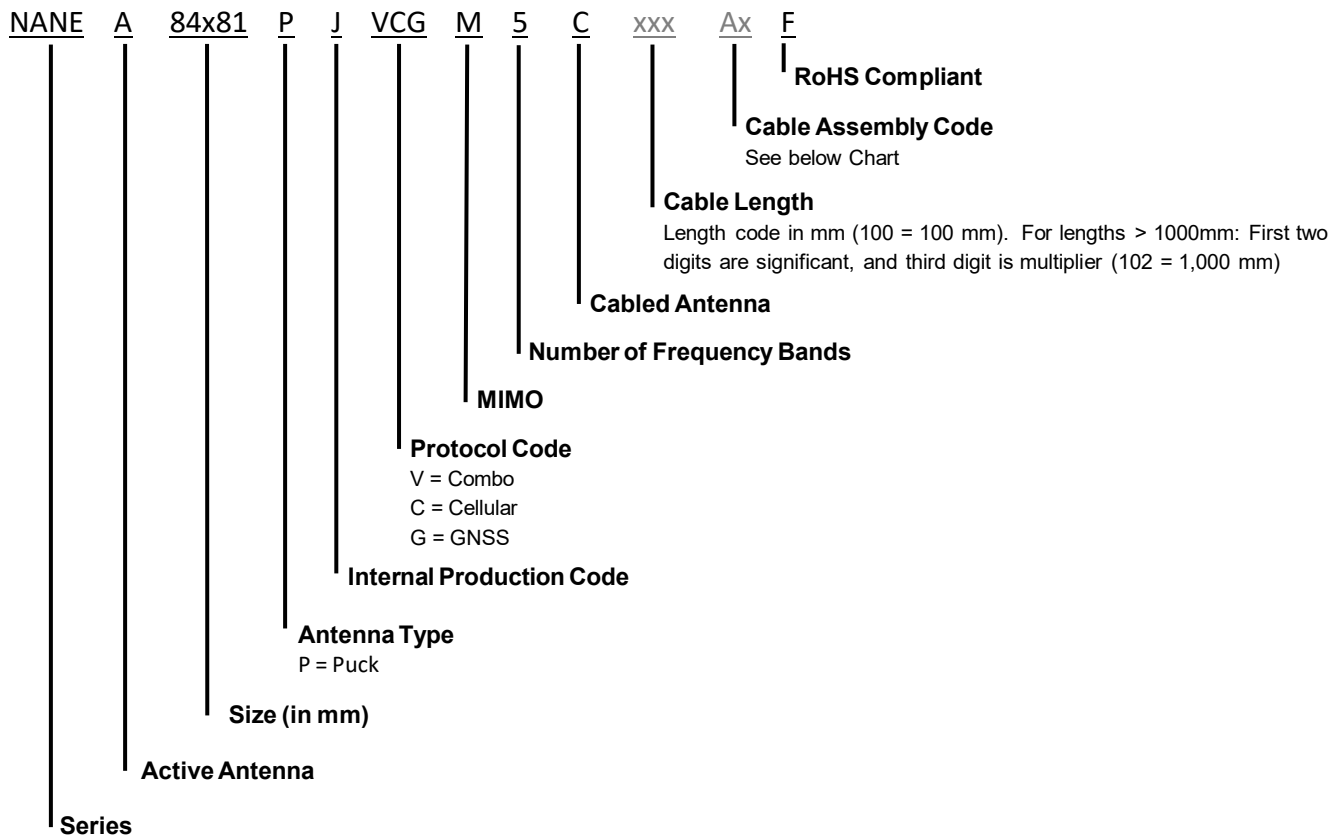
The NANEA84X81PJVCGM5CF is an External Active Antenna designed for GNSS L1 and LTE applications. It operates within the frequency ranges of 1575MHz, 698~960 MHz and 1710~2690 MHz making it perfect for Tracking, IoT, Gateways and Routers



Features

- GPS L1 Protocol
- LTE MIMO
- IP65 ~ IP67 Waterproof Rating
- Customizable Connector Options and Cable Lengths
- RoHS Complaint

Part Number Breakdown





Part Number Options

Part Number	Protocol	Connector	Cable Type	Cable Length
NANEA84X81PJVCGM5C302A0F	GNSS L1 & LTE MIMO	SMA Male	RG174	3000 mm
NANEA84X81PJVCGM5C502A1F	GNSS L1 & LTE MIMO	FAKRA	RG174	5000 mm

The table represents assembled part numbers available on www.niccomp.com. For options not listed above please contact NIC

Specifications

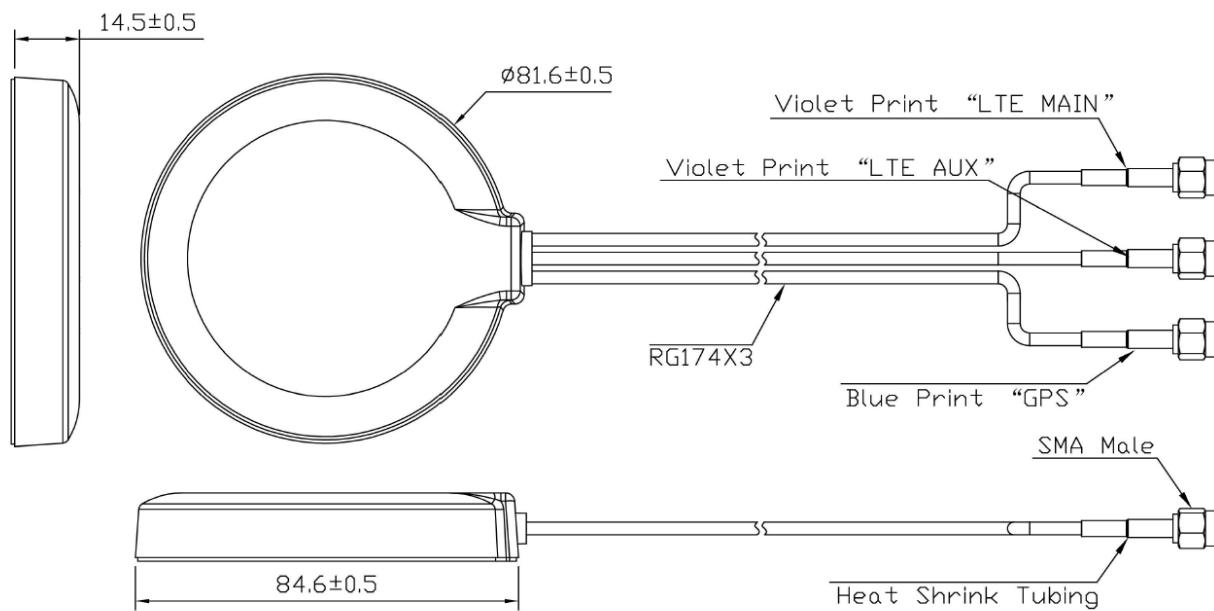
Electrical		
Antenna	GPS	
Frequency Range	1575.42 ± 3 MHz	
Gain	2 dBic	
VSWR	< 1.5	
Polarization	RHCP	
Impedance	50 Ω	
LNA		
Gain	28 ± 2dB	
Noise Figure	≤ 1.5 dB	
Supply Voltage	3~5V DC	
Current Consumption	< 15mA	
V.S.W.R.	< 2.0	
Antenna	LTE MAIN	LTE AUX
Frequency Range	698~960 MHz 1710~2690 MHz	698~960 MHz 1710~2690 MHz
V.S.W.R	<3.0	< 3.0
Gain	2.5 dBi	2.0 dBi
Polarization	Linear	
Impedance	50 Ω	
Environmental		
Operating Temperature	-40°C~+85°C	
Relative Humidity	Up to 95%	
Ingress Protection	IP65 ~ IP67	
Vibration	10 to 55Hz with 1.5mm amplitude 2hours	
Mounting Method	Adhesive / Magnet	
ROHS Compliant	Yes	

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Dimension Drawing



Unit:mm

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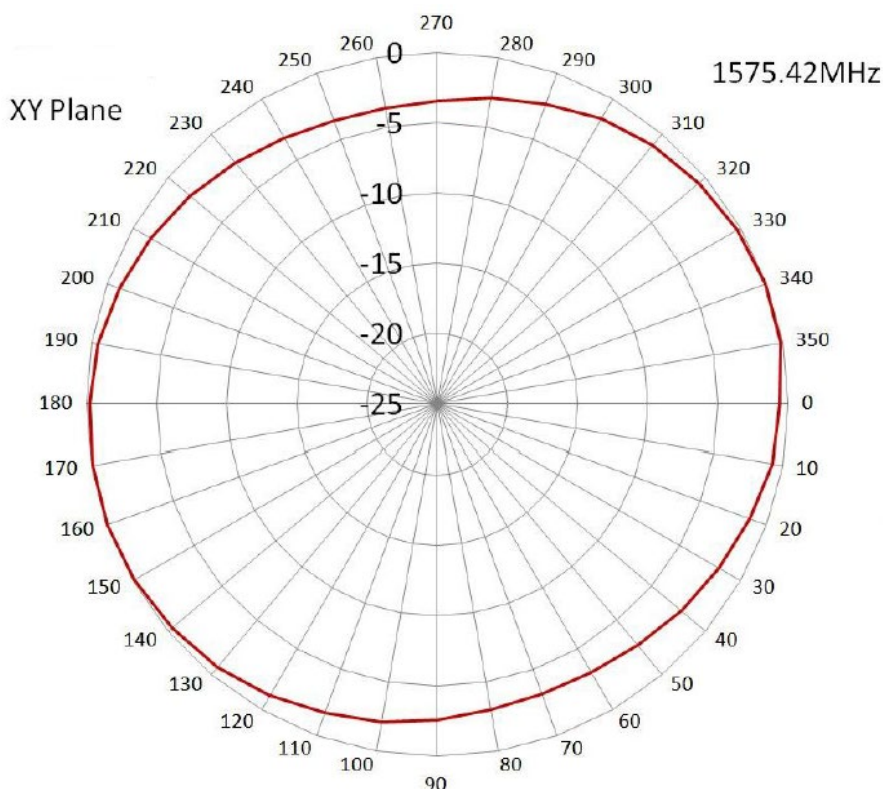
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Radiation Patterns

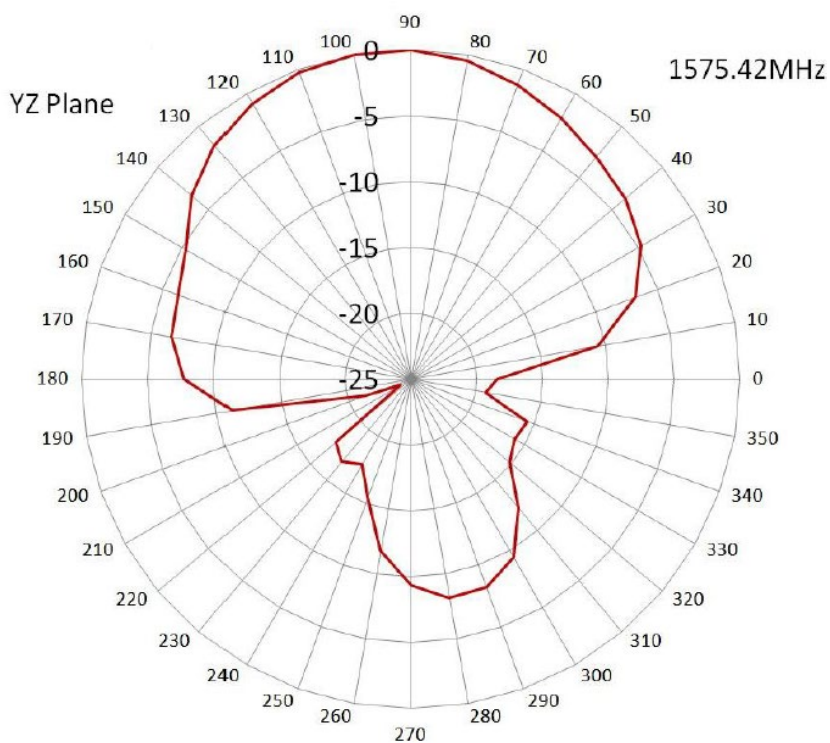
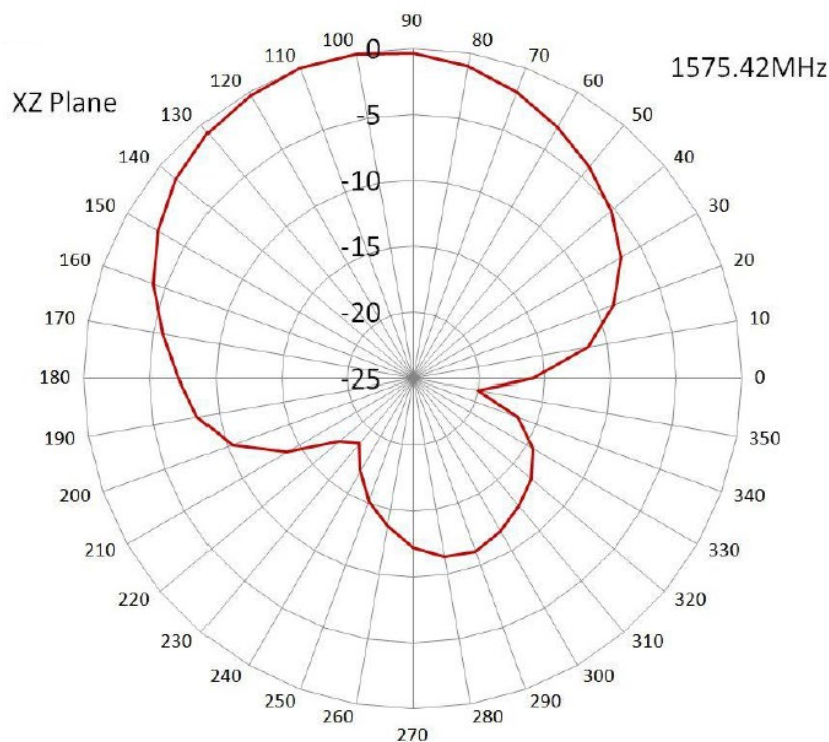


GPS Antenna



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Performance Passives By Design

NIC Components Corp.
100 Baylis Road. Melville, NY 11747

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www.niccomp.com

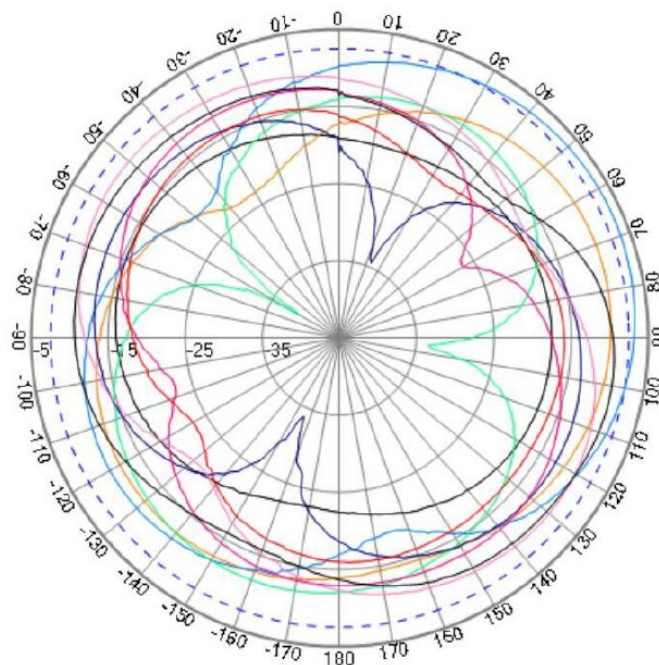
Last Updated 6/10/2024. Specification subject to change without notice. Please check web site or contact NIC for latest information

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LTE Antenna MAIN



XY PLANE

Freq:700

Freq:824

Freq:868

Freq:960

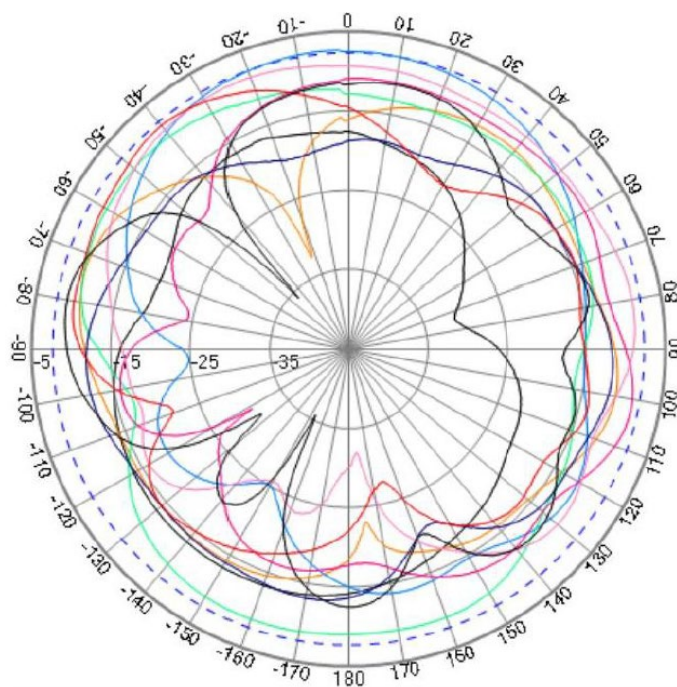
Freq:1710

Freq:1850

Freq:1990

Freq:2170

Freq:2690



XZ PLANE

Freq:700

Freq:824

Freq:868

Freq:960

Freq:1710

Freq:1850

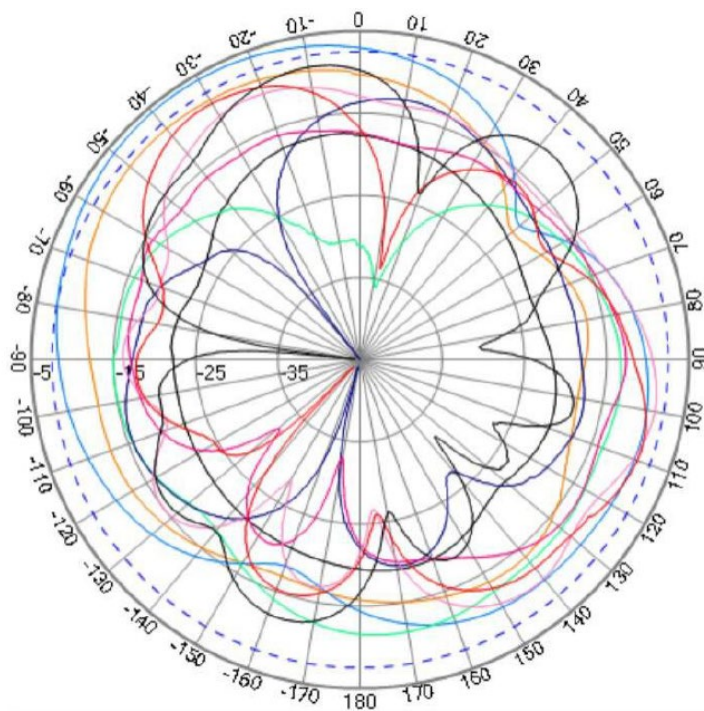
Freq:1990

Freq:2170

Freq:2690

NANEA84X81PJVCGM5CF

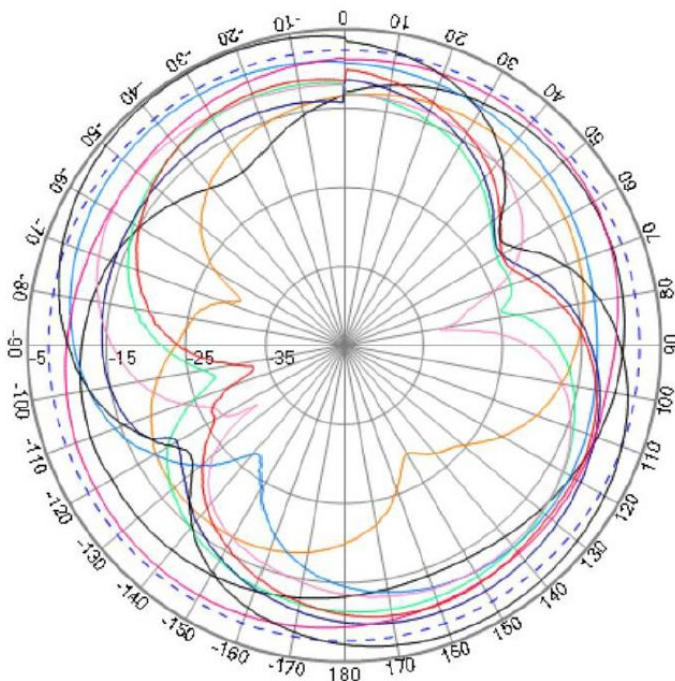
GPS L1 & LTE MIMO External Active Antenna



YZ PLANE

- Freq:700
- Freq:824
- Freq:868
- Freq:960
- Freq:1710
- Freq:1850
- Freq:1990
- Freq:2170
- Freq:2690

LTE Antenna AUX

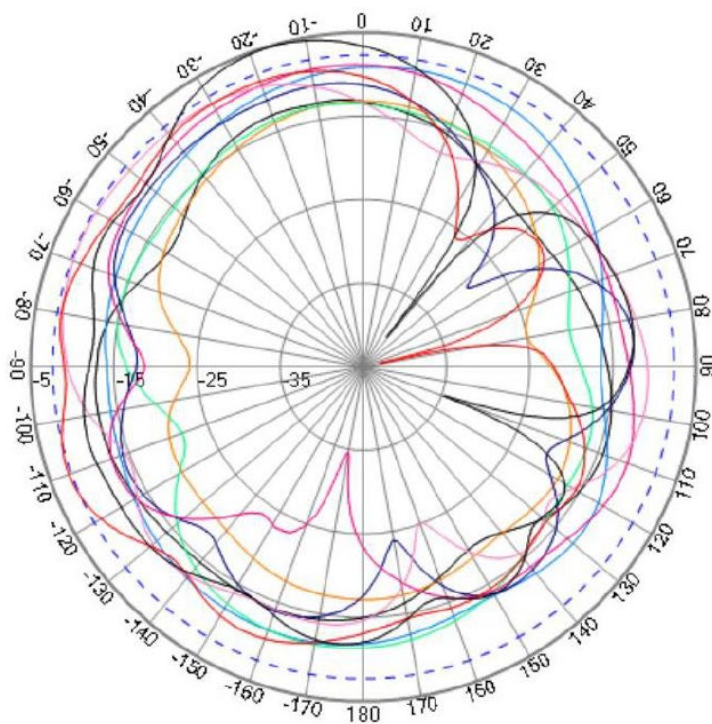


XY PLANE

- Freq:700
- Freq:824
- Freq:868
- Freq:960
- Freq:1710
- Freq:1850
- Freq:1990
- Freq:2170
- Freq:2690

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XZ PLANE

Freq:700

Freq:824

Freq:868

Freq:960

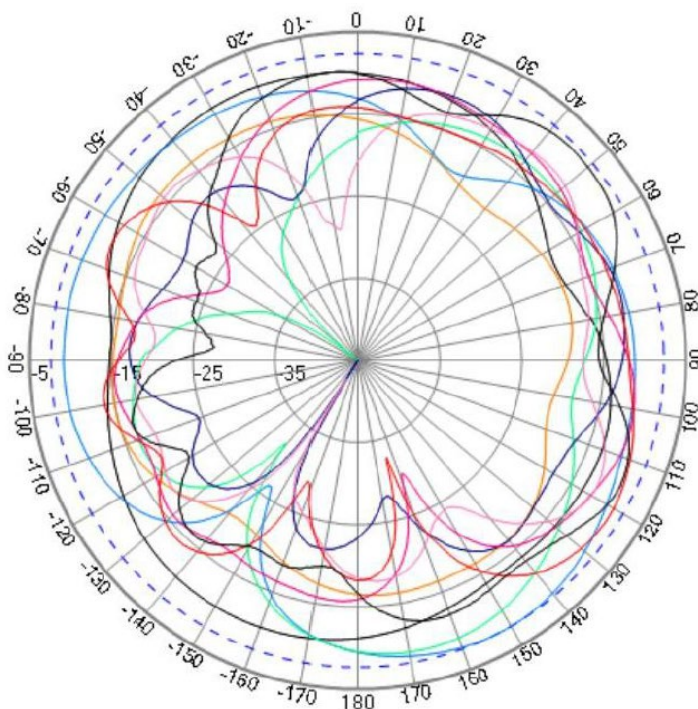
Freq:1710

Freq:1850

Freq:1990

Freq:2170

Freq:2690



YZ PLANE

Freq:700

Freq:824

Freq:868

Freq:960

Freq:1710

Freq:1850

Freq:1990

Freq:2170

Freq:2690