

# Antennas Technical Data Sheet

ET12961

#### Features

- Highly efficient flexible printed circuit board (PCB) design
- Designed for omni-directional applications
- Low profile, compact size
- IPEX, U.FL, UMCX compatible connector

# Applications

- Integrate into self contained wireless equipment
- Embedded applications requiring integration flexibility
- Multiband cellular frequencies

#### Description

The ET12961 is a multiband omnidirectional antenna designed to integrate into devices requiring wireless capability. By embedding these antennas directly into a device, the need for external antennas is eliminated. The omni-directional radiation pattern makes it ideal for multipoint and mobile wireless systems.

#### Configuration

Design
Band Type
PCB
Multi

Radiation Pattern Omni Directional

Polarization Vertical
Cable Type 1.13mm

Cable Length
Connector Type
3.937 in [100 mm]
UMCX Plug

Number of Ports

Housing Material and Plating Polymer

#### Electrical Specifications

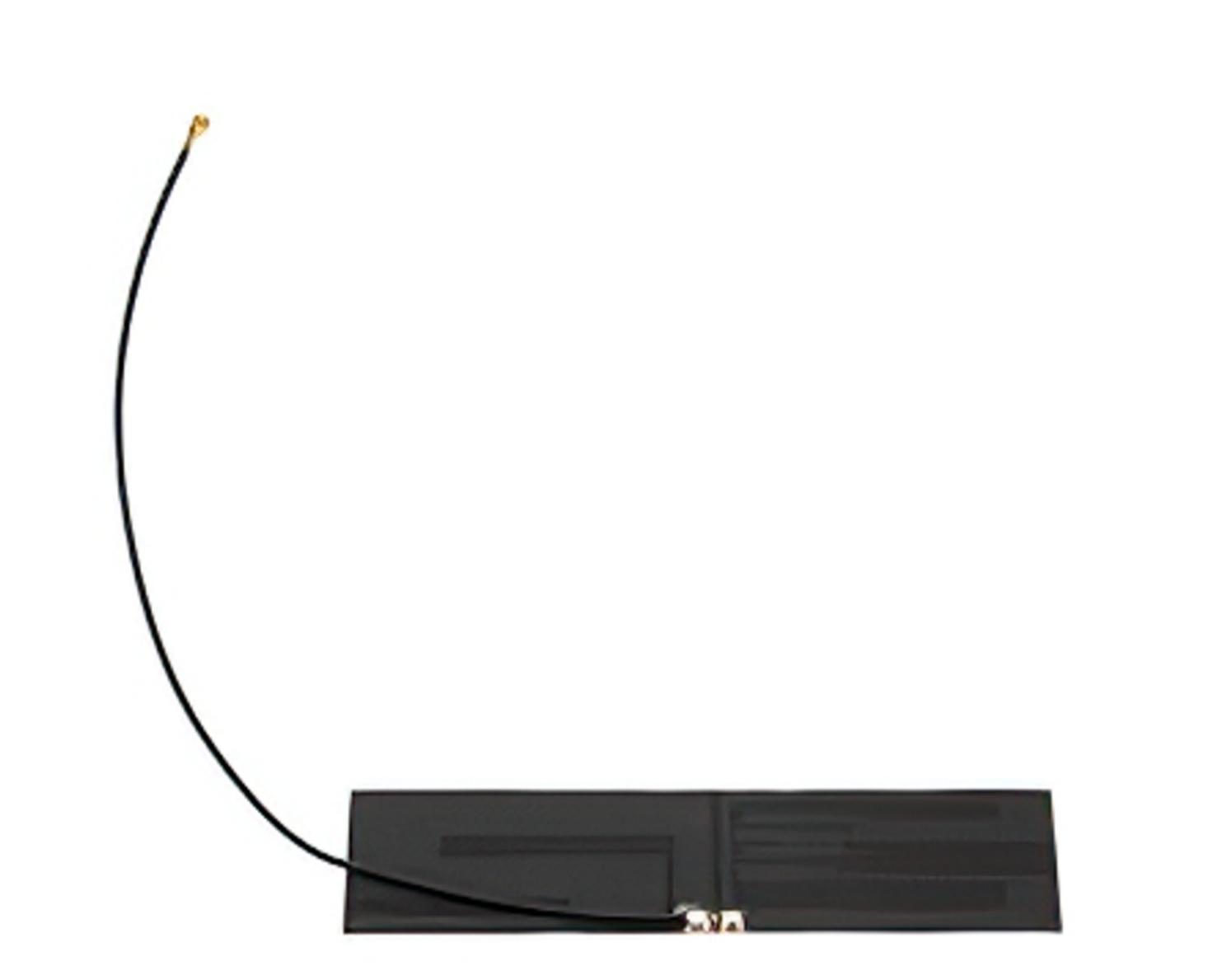
Description	Minimum	Typical	Maximum	Units
Frequency Range	698		2,700	MHz
Input VSWR			2.5:1	
Impedance		50		Ohms
Gain		5		dBi
Gain	1			dBi
Input Power			5	Watts

#### Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	698-960	1,710-2,170	2,300-2,700			MHz
Gain	1	2.5	5			dBi

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 5 dBi MultiBand Embedded PCB Antenna 698-2,700 MHz UMCX Connector ET12961





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# Mechanical Specifications

Housing Material Polymer

Size

 Overall Length
 3.74016 in [95 mm]

 Width
 0.826772 in [21 mm]

 Height
 0.00787402 in [0.2 mm]

## **Environmental Specifications**

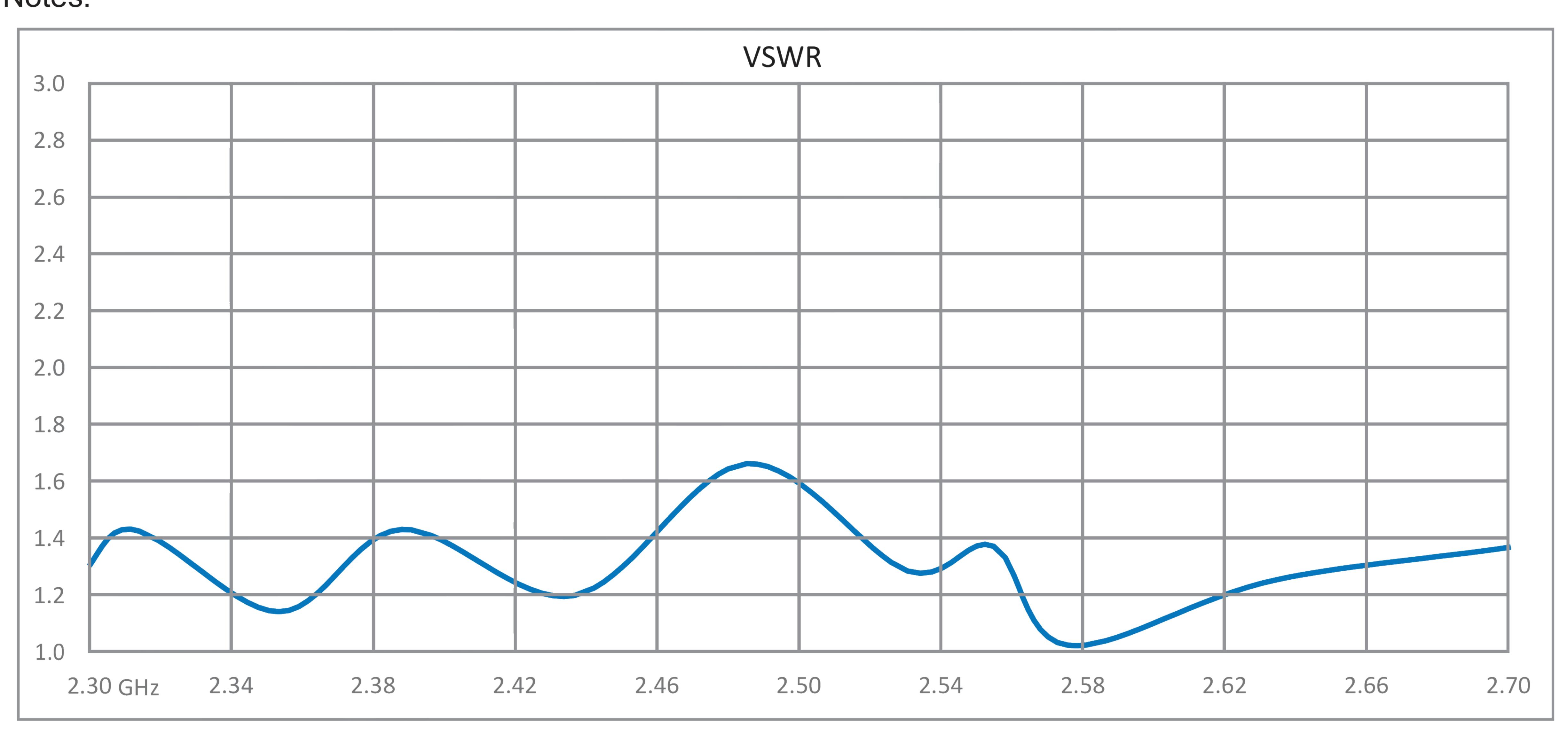
Temperature

Operating Range -40 to +85 deg C
Storage Range -40 to +85 deg C

#### Compliance Certifications (see product page for current document)

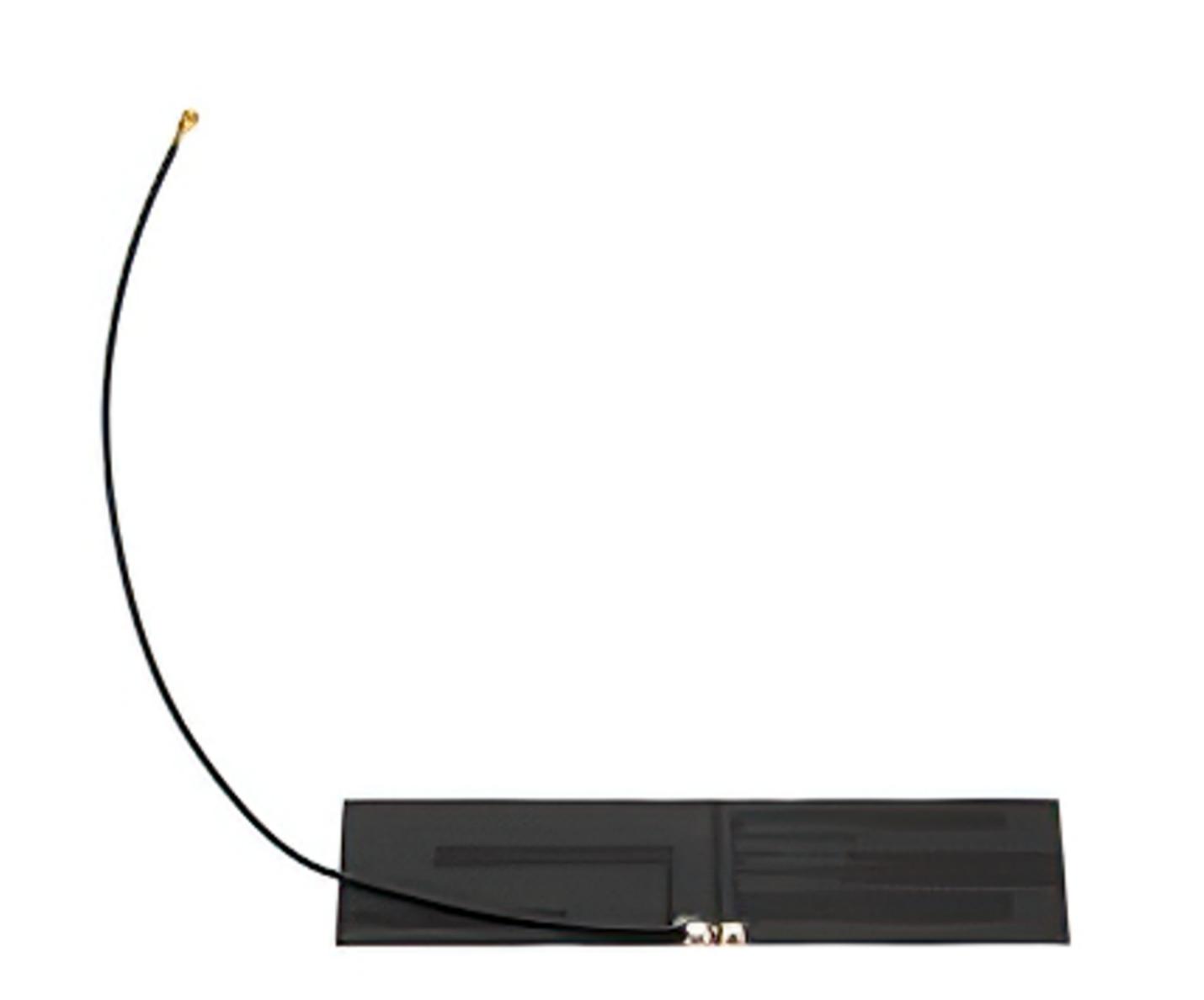
#### Plotted and Other Data

Notes:



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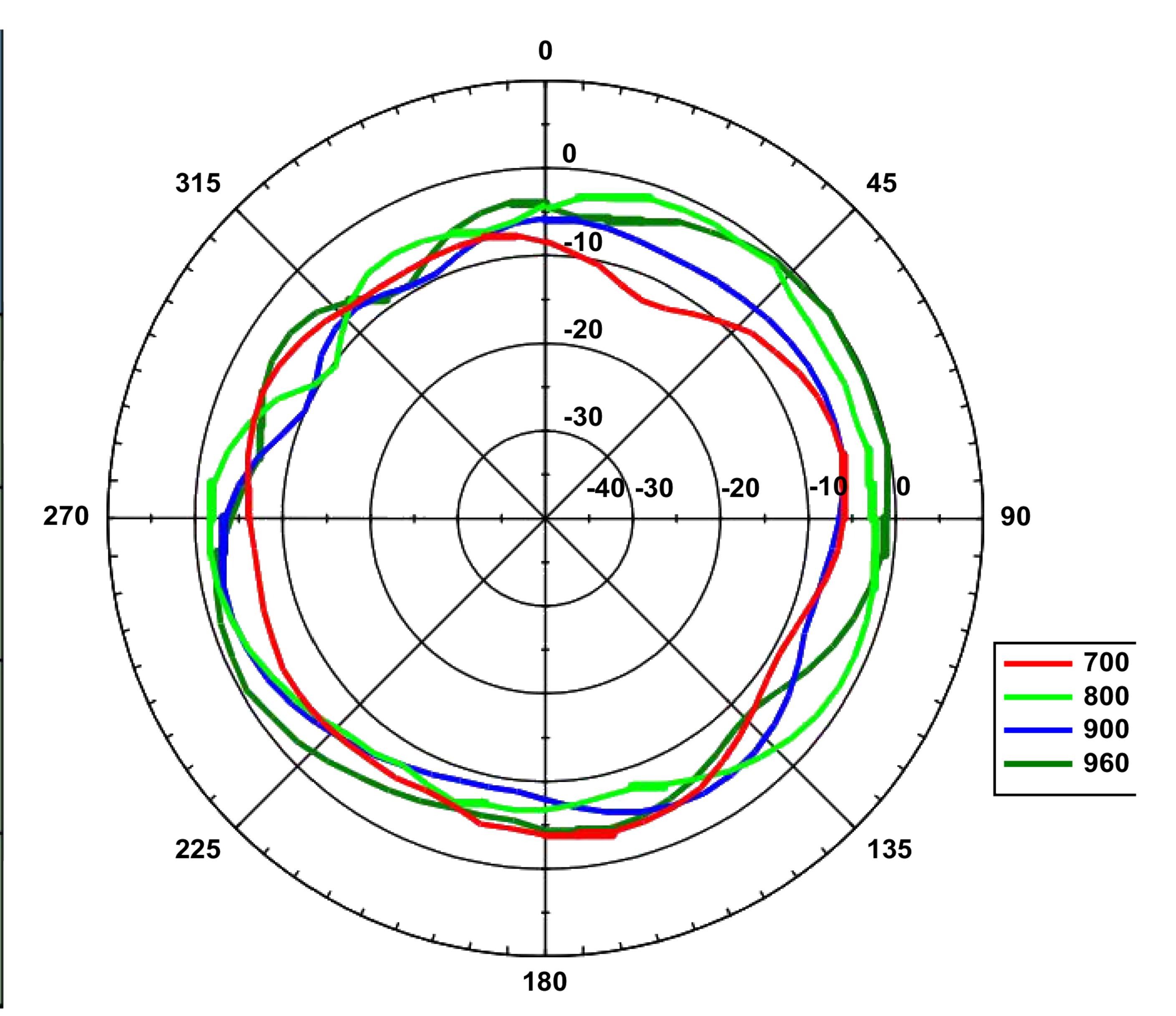


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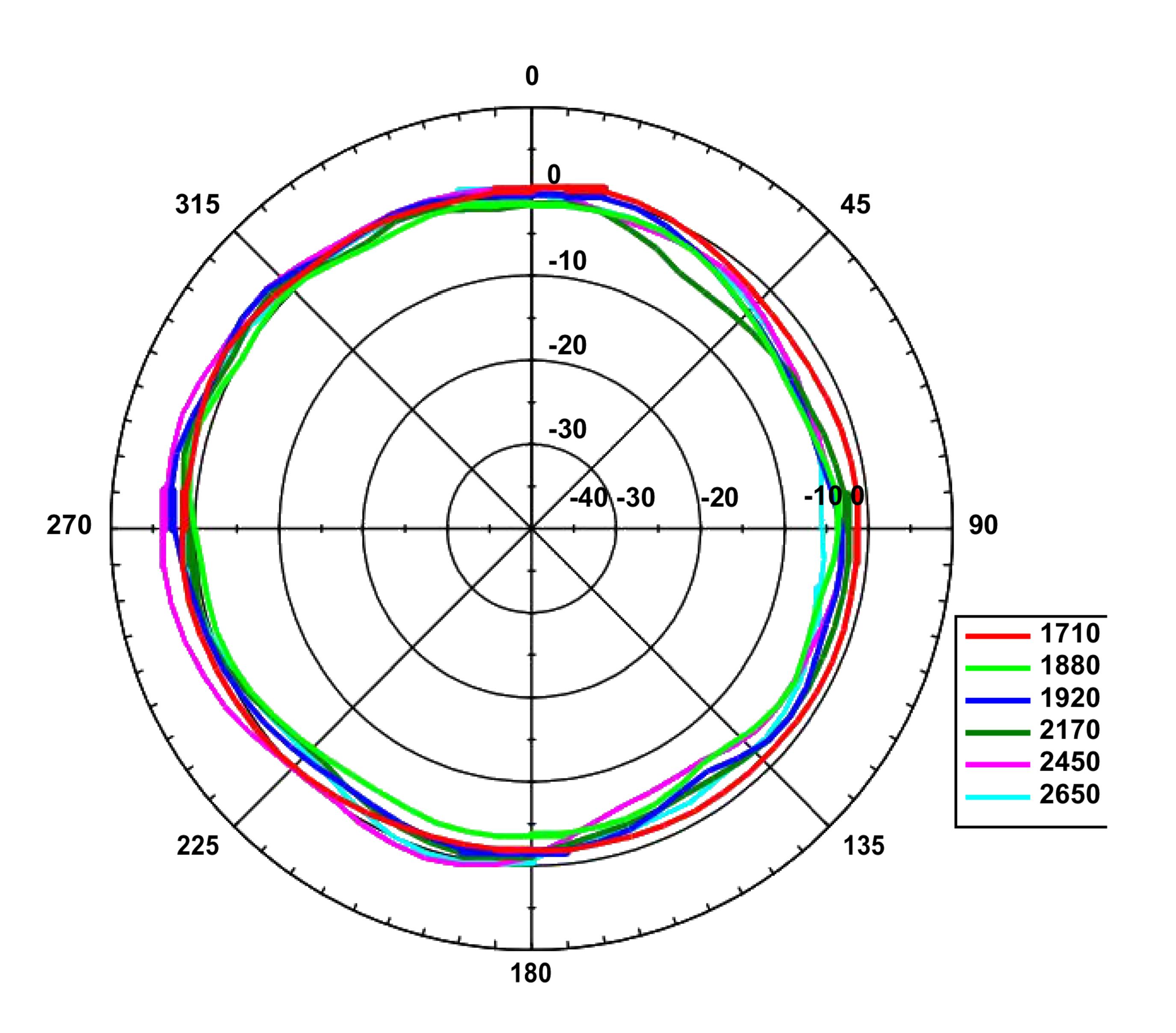
# XZ Plane

Total power	Max (dBi)	Min (dBi)	Average (dBi)
700	-3.41	-12.76	-6.33
800	-0.96	-10.40	-3.68
900	-2.45	-9.94	-5.87
960	0.04	-9.16	-3.22



# XZ Plane

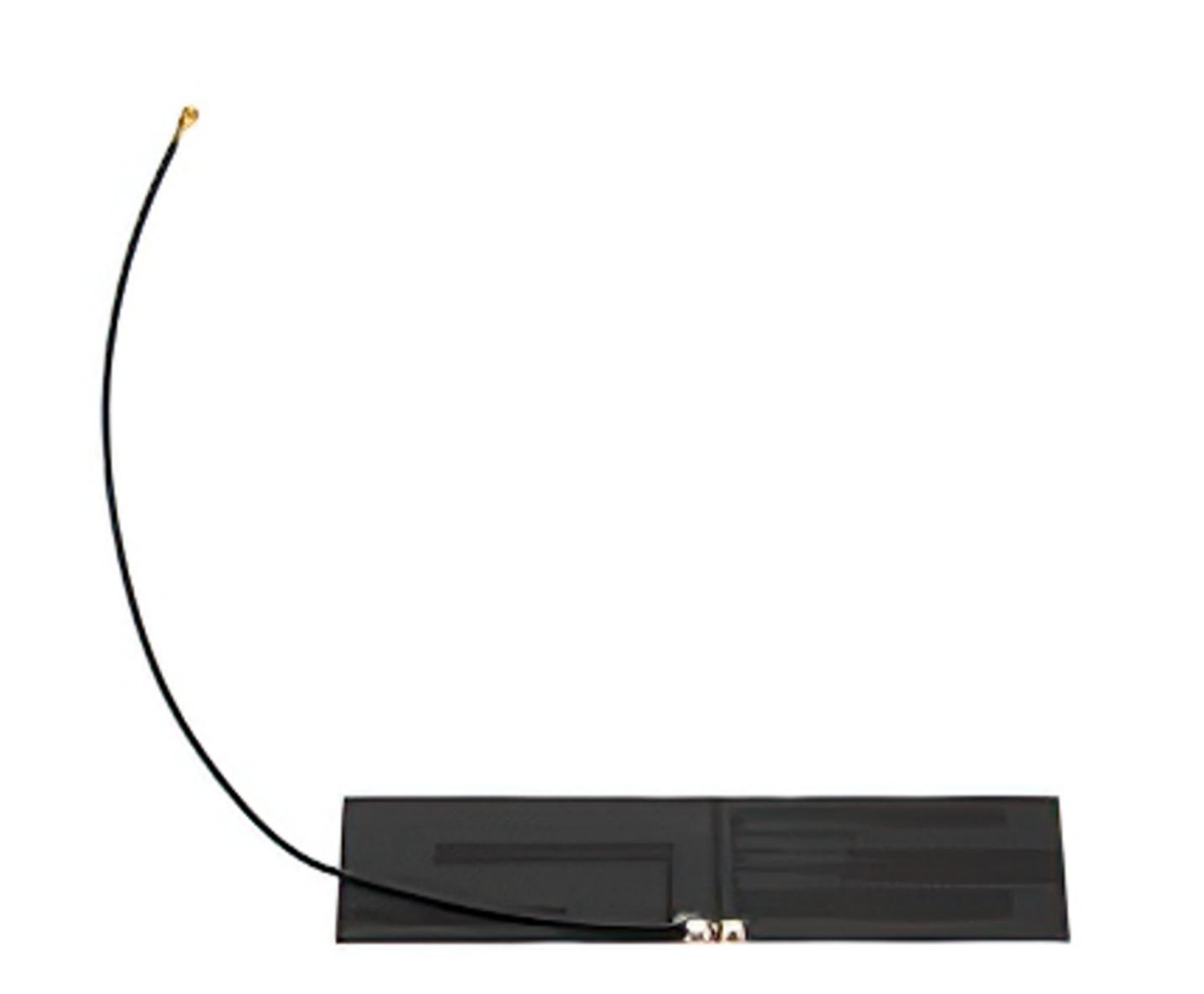
Total	Max (dBi)	Min (dBi)	Average (dBi)
1710	2.00	-1,96	-0.14
1880	1.48	-5.56	-2.10
1920	3.06	-4.87	-0.65
2170	2.21	-5.28	-1.27
2450	3.90	-5.92	0.10
2650	1.80	-5.51	-0.98



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8th Floor, Building 1, Yongfu Science and Technology Center Industrial Park, Nanzha District 5, Humen,523900, Dongguan, Guangdong, China.



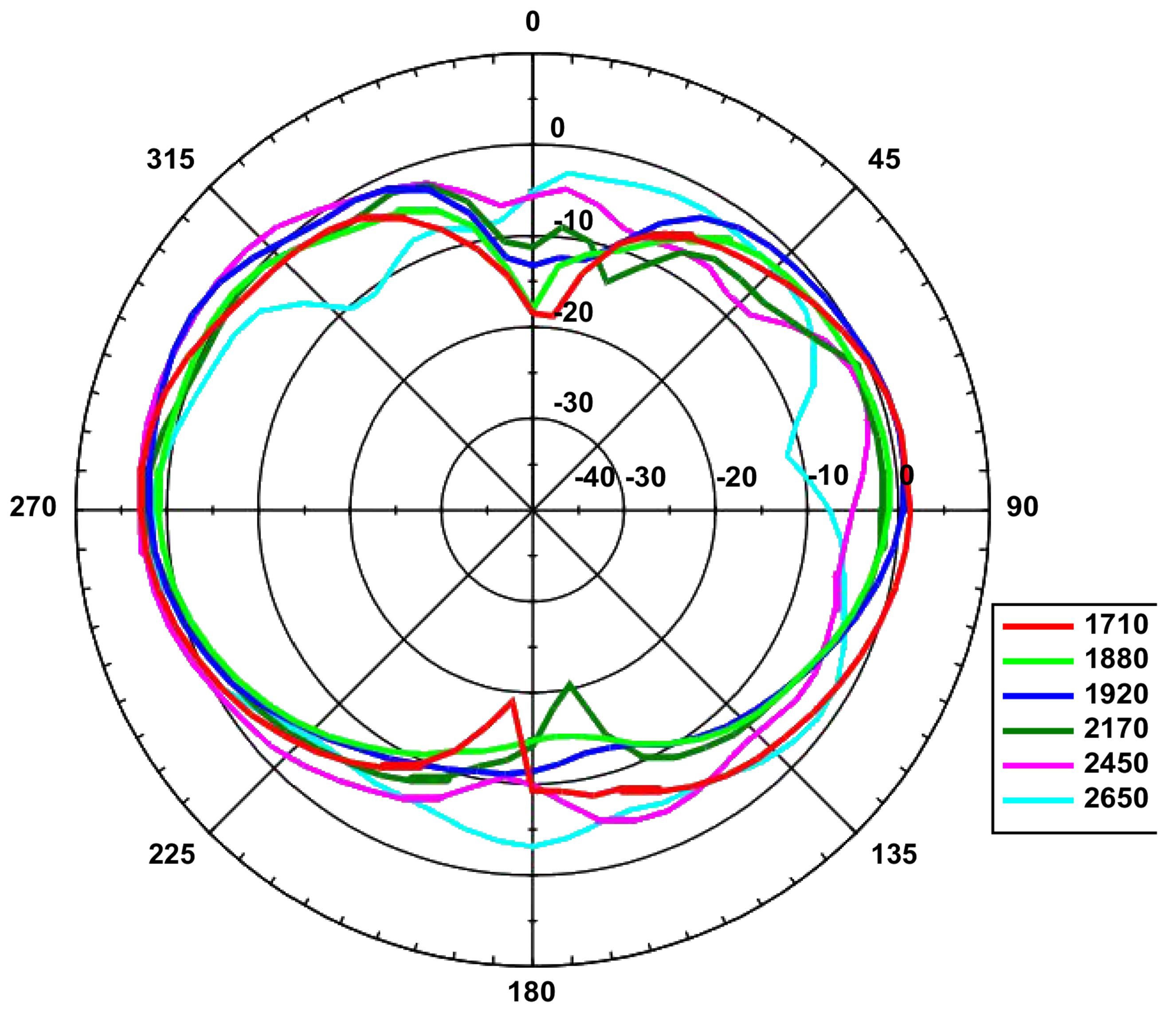


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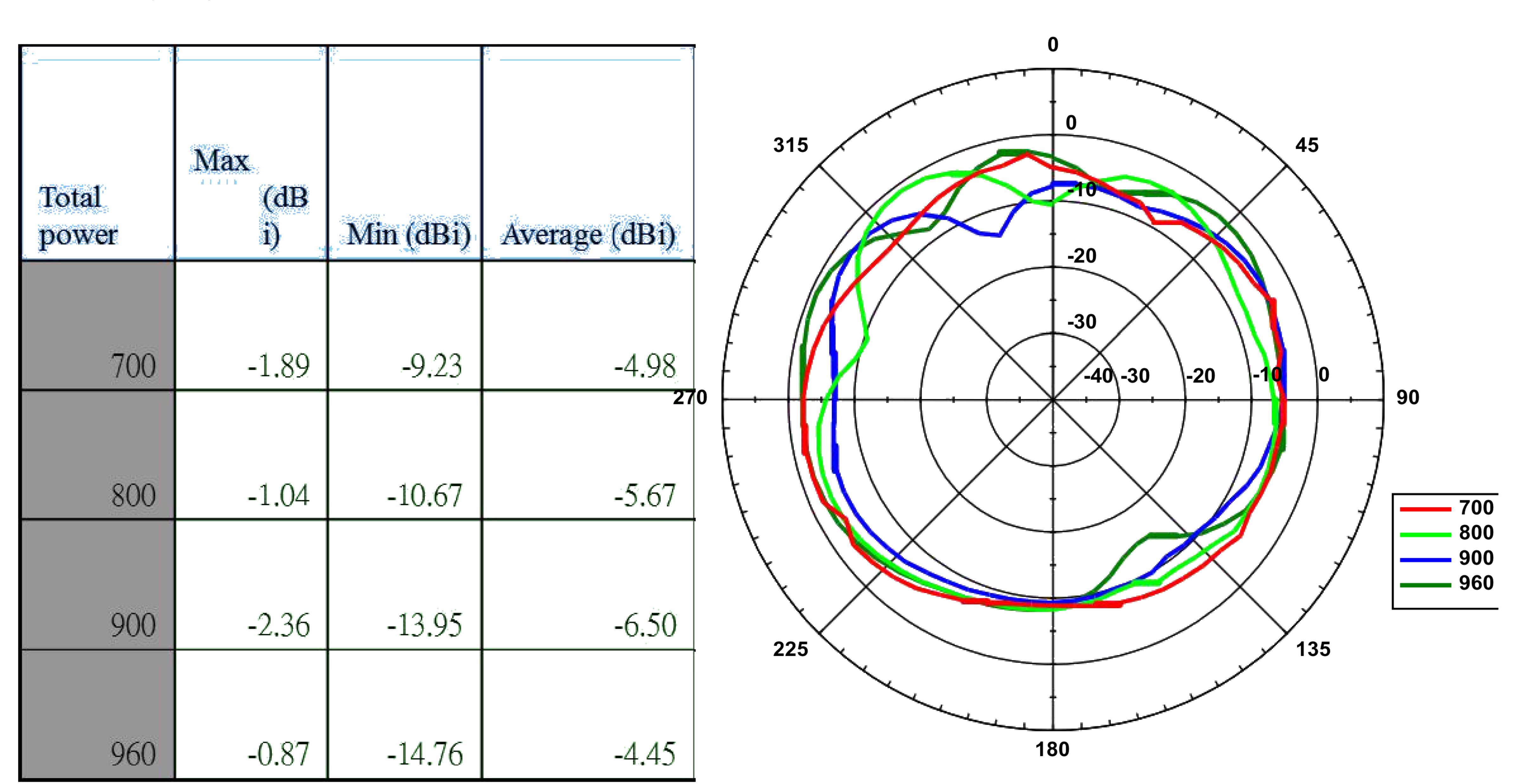
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# XY Plane

Total	Max (dBi)	Min (dBi)	Average (dBi)
1710	3.01	-19.80	-2,.04
1880	1.00	-18.10	-3.34
1920	2.97	-13.27	-1.87
2170	2,24	-20.47	-3.18
2450	3.22	-10,60	-1,66
2650	1,83	-11,58	-3.07



# XY Plane



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5 dBi MultiBand Embedded PCB Antenna 698-2,700 MHz UMCX Connector from Ebeestock Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 5 dBi MultiBand Embedded PCB Antenna 698-2,700 MHz UMCX Connector ET12961

**URL:** https://www.ebeestock.com/5-dbi-multiband-embedded-pcb-antenna-698-2-700-mhz-umcx-connector-0012961

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