

NANE40X70DMC778M5LF

5G NR FR1 External Antenna



Description

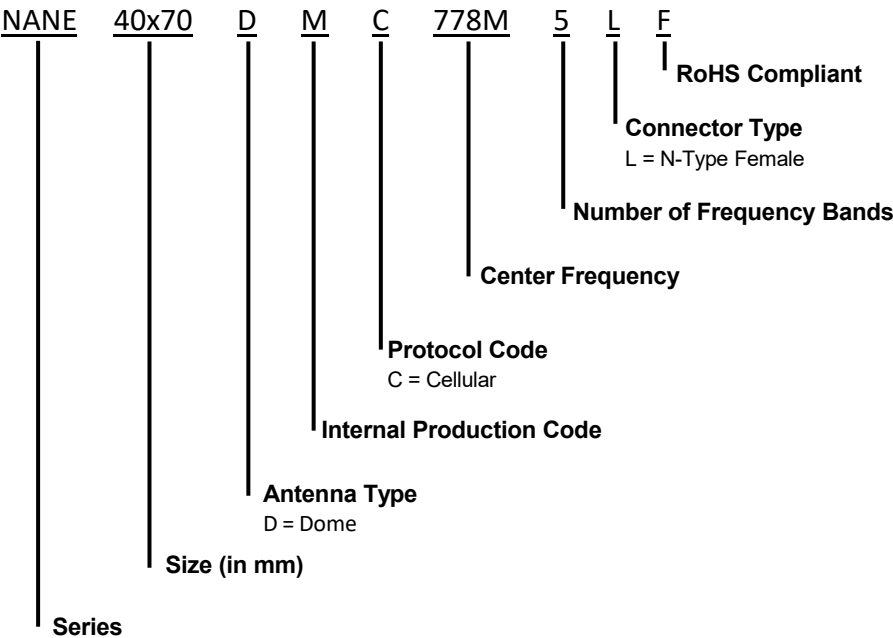
NANE40X70DMC778M5LF is an External Antenna designed for 5G applications. It operates within the frequency ranges of 698 ~ 960MHz, 1710 ~ 2690MHz, 3300 ~ 4200 MH, 4400 ~ 5000 MHz & 5150 ~ 5850 MHz respectively, making it perfect for CBRS Private Network, C-Band application, Public Safety networks, networking routers & gateways

Features

- Supports: 5G NR FR1 with a broad bandwidth from 698 ~ 5850 MHz
- Waterproof IP65 Rating
- Panel- Mount installation
- RoHs Complaint



Part Number Breakdown



Part Number Options

Part Number	Protocol	Connector
NANE40X70DMC778M5LF	5G LTE	N-Type Female

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

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Specifications

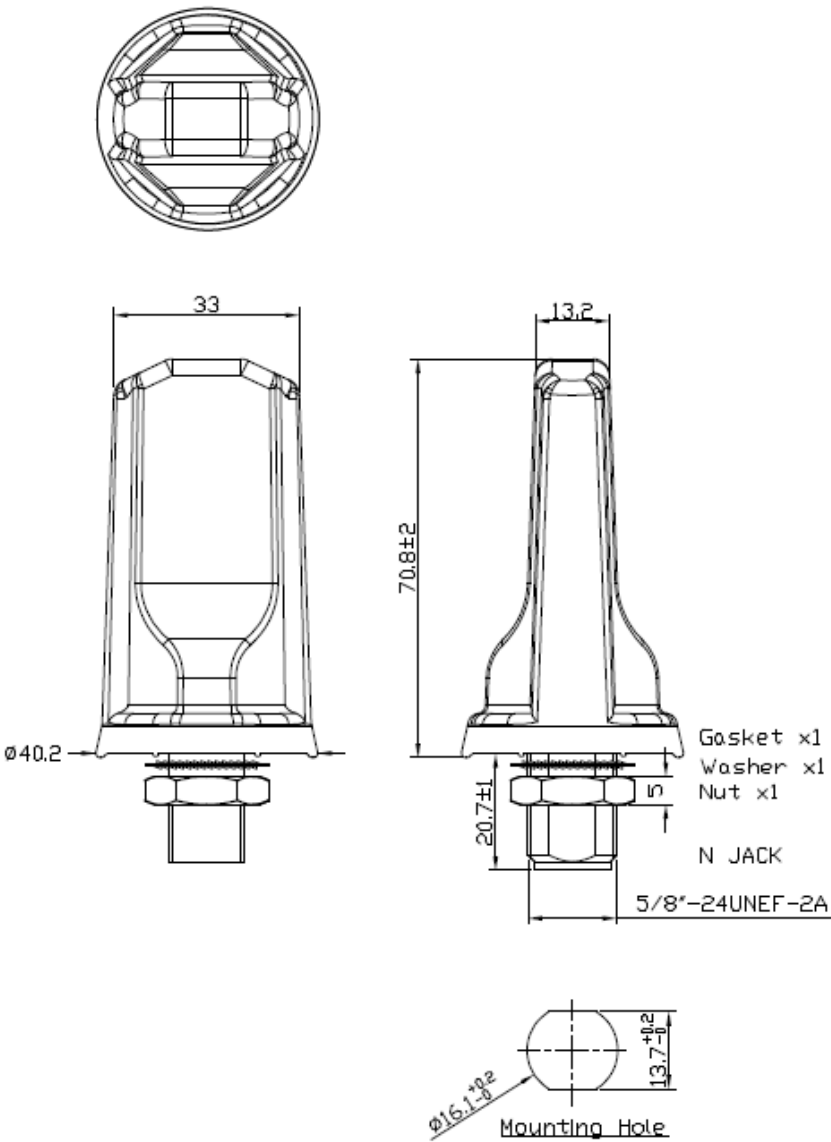
Electrical					
Frequency Range (MHz)	698 ~ 960	1710 ~ 2690	3300 ~ 4200	4400 ~ 5000	5150 ~ 5850
V.S.W.R (Max)	3.6	2.2	1.8	3.3	3.2
Peak Gain (dBi)	2.4	3.8	4.5	3.4	5.1
Average Gain (dBi)	-2.0	-1.8	-3.0	-2.6	-2.9
Efficiency	63%	65%	51%	55%	52%
Max Power	10 W				
Electrical Type	Dipole				
Polarization	Linear				
Radiation	Omni directional				
Impedance	50Ω				
Environmental & Mechanical					
Operating Temperature	-30°C~+70				
Ingress Protection	IP65				
Color	Black				
Reference Ground Plane	350 x 350 mm				
Mounting method	Screw				
Weight	62.5 g				
ROHS Compliant	Yes				

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Dimensional Drawings

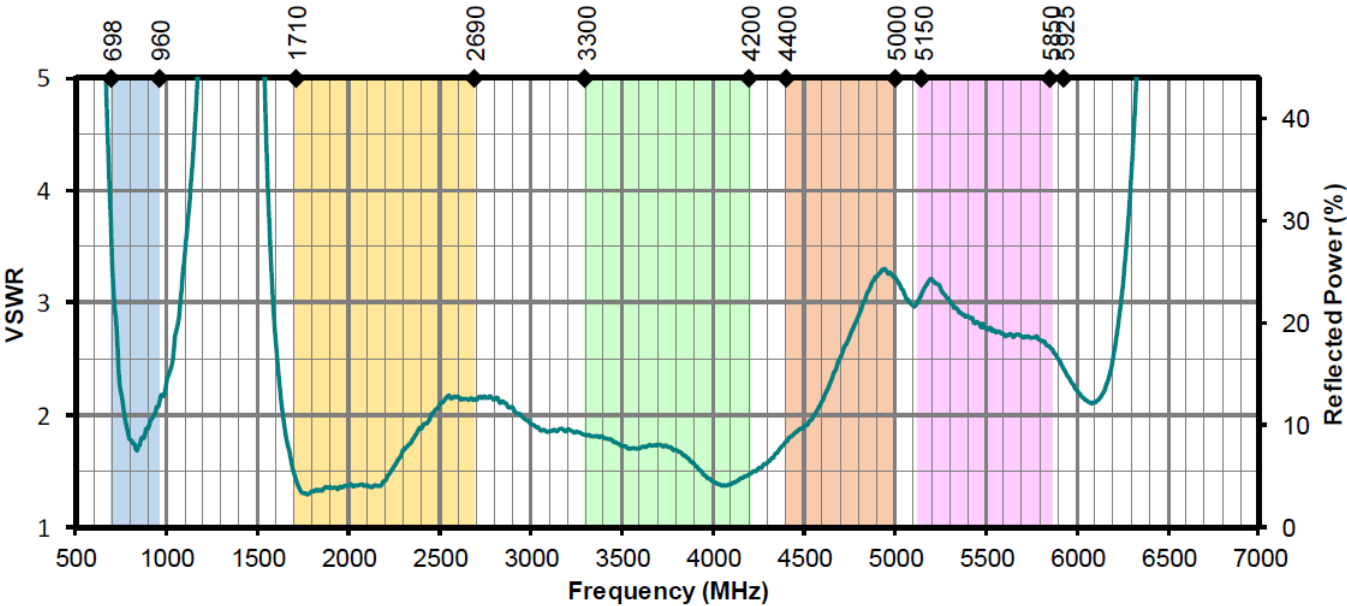


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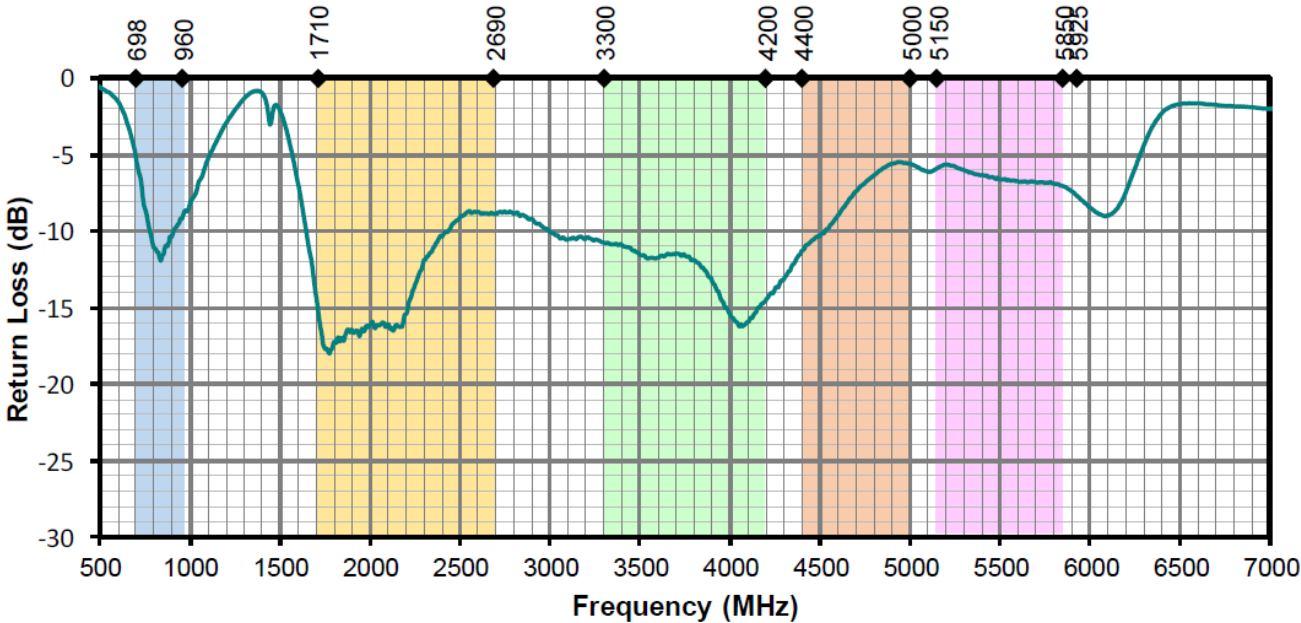
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VSWR



Return Loss

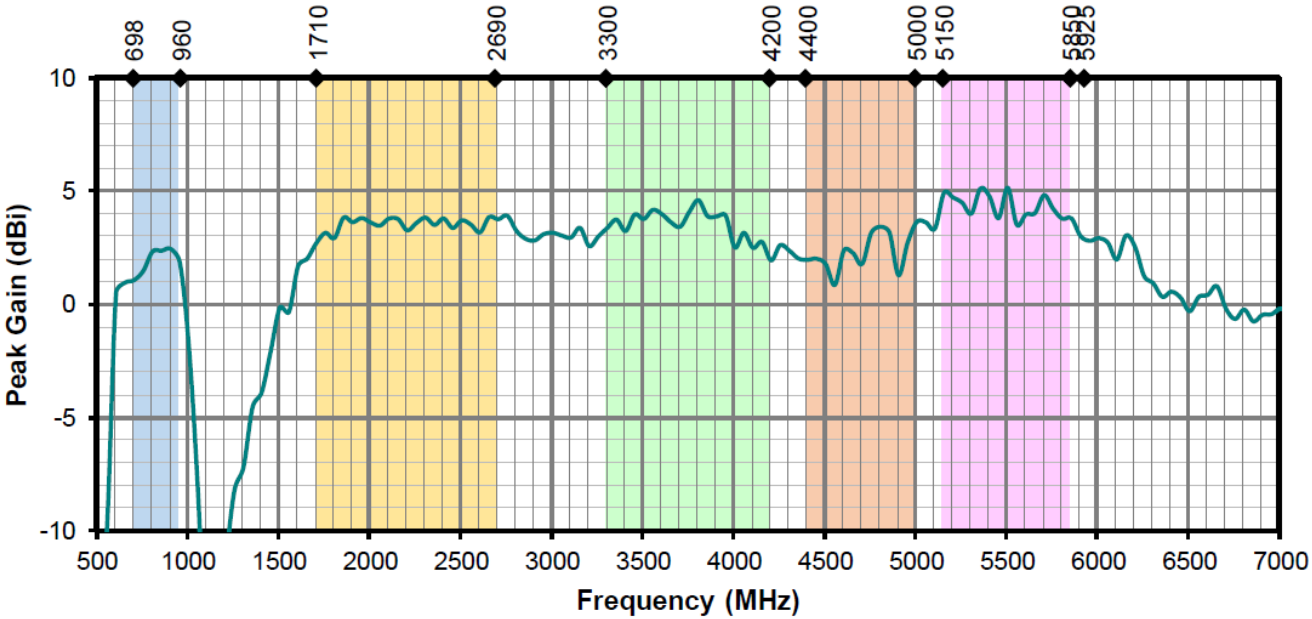


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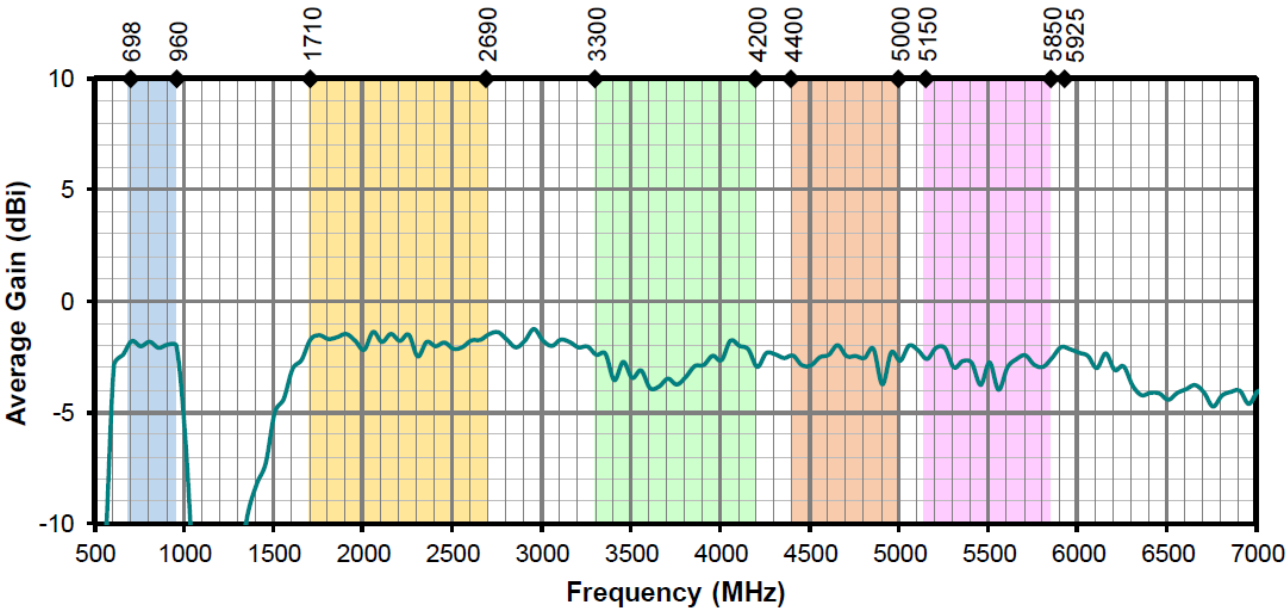
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Peak Gain



Average Gain

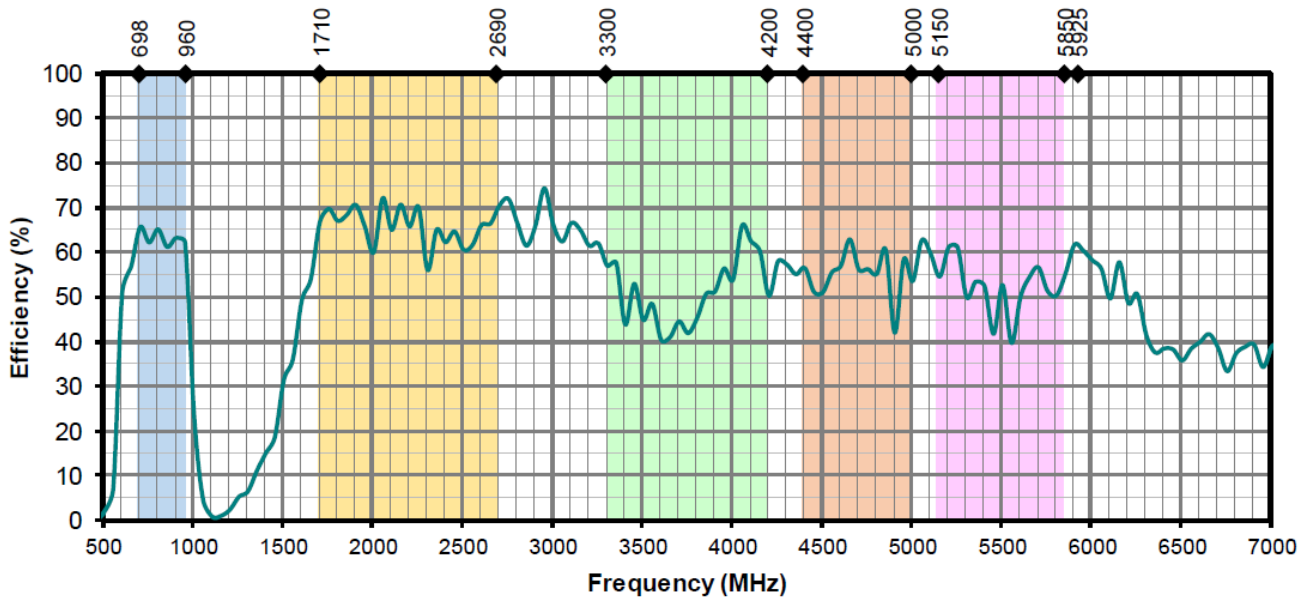


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Radiation Efficiency



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Radiation Patterns



XZ-Plane Gain

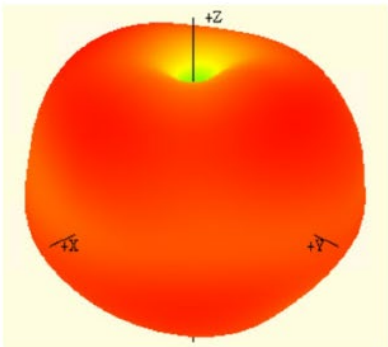


YZ-Plane Gain

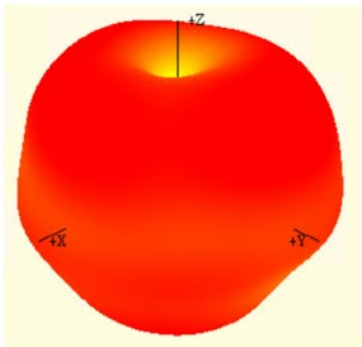


XY-Plane Gain

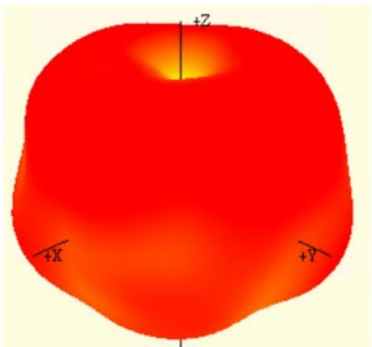
698 MHz ~ 960 MHz (778 MHz)



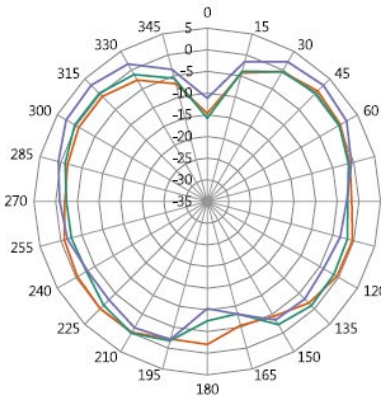
698 MHz



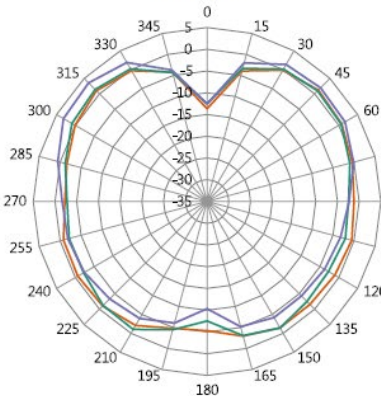
778 MHz



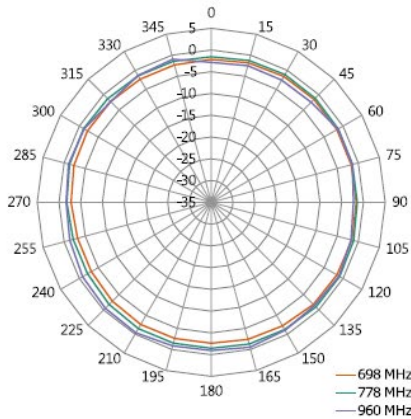
960 MHz



XZ-Plane Gain



YZ-Plane Gain



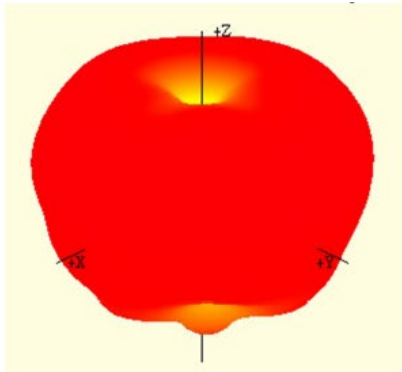
XY-Plane Gain

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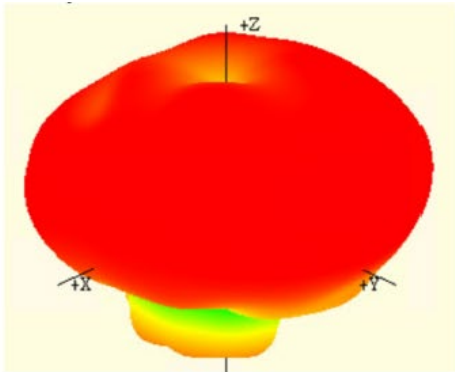
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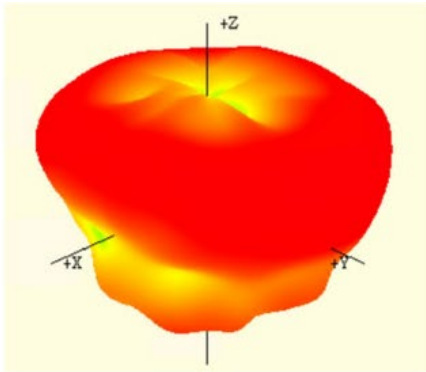
1710 MHz ~ 3800 MHz (2700 MHz)



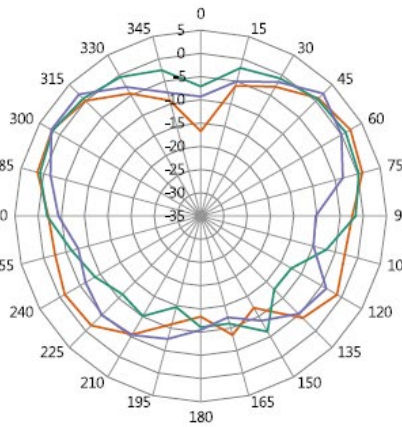
1710 MHz



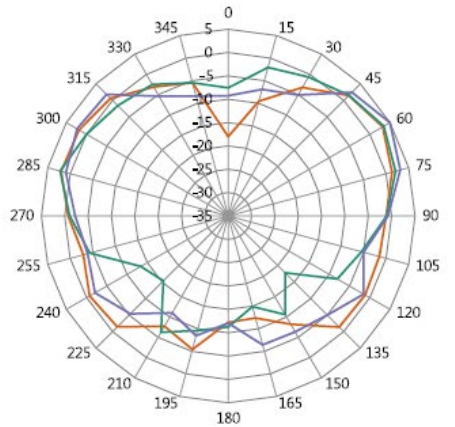
2700 MHz



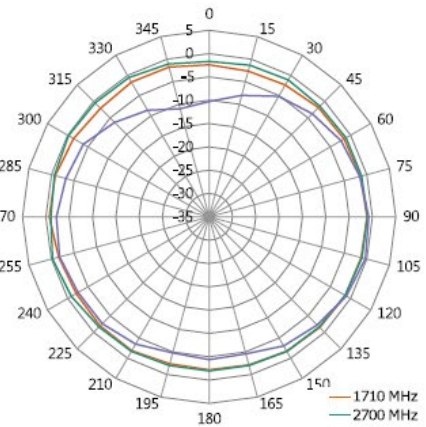
3800 MHz



XZ-Plane Gain



YZ-Plane Gain



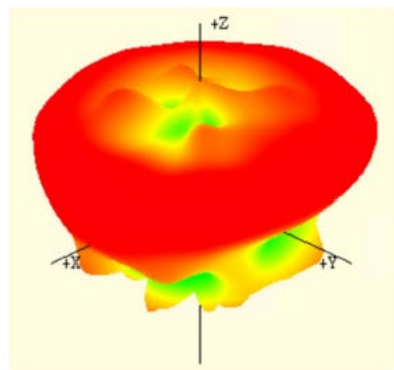
XY-Plane Gain

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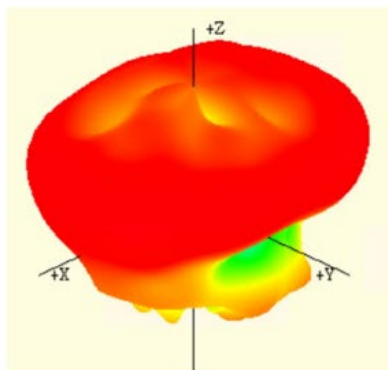
5G NR FR1 External Antenna



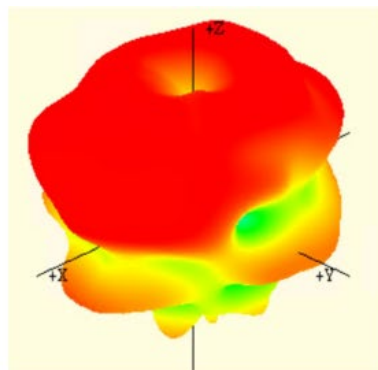
4200 MHz ~ 5000 MHz (4550 MHz)



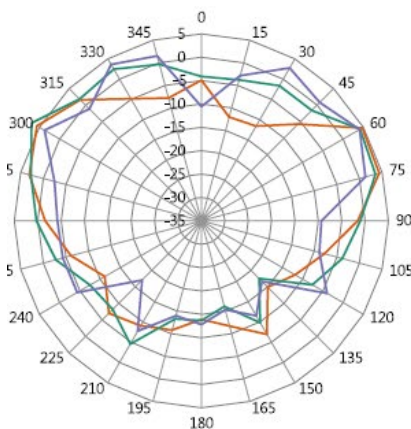
4200 MHz



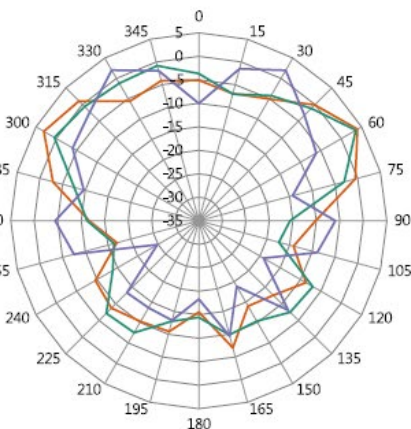
4550 MHz



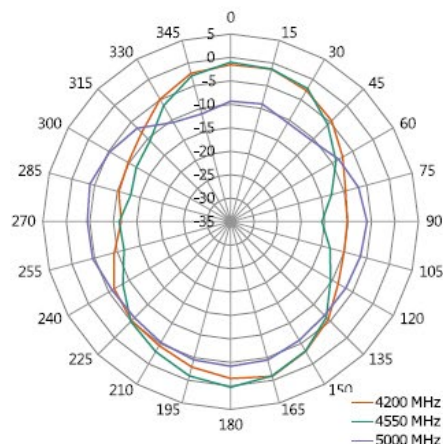
5000 MHz



XZ-Plane Gain



YZ-Plane Gain



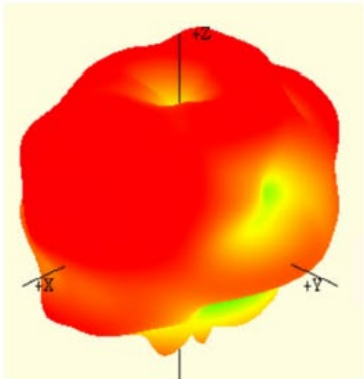
XY-Plane Gain

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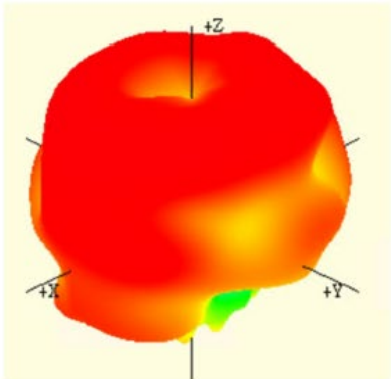
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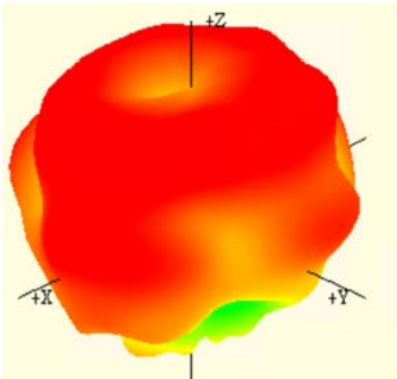
5150 MHz ~ 5850 MHz (5550 MHz)



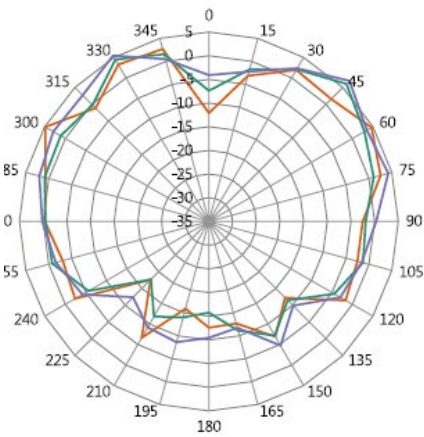
5150 MHz



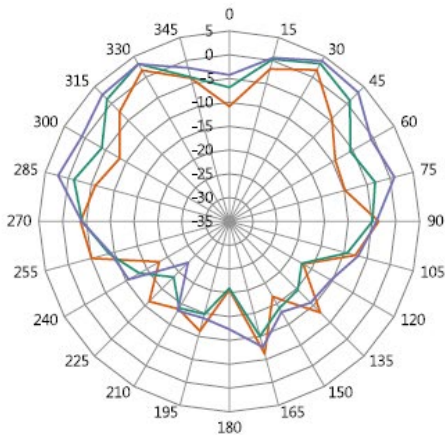
5550 MHz



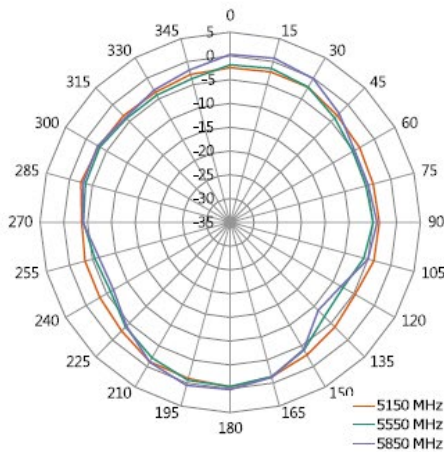
5850 MHz



XZ-Plane Gain



YZ-Plane Gain



XY-Plane Gain