

Antenna

FG00115 Datasheet

Antenna Services

Version:1.0

Date: 2025-09-25

Status: Released



Contents

Overall Performance	3
1) Test Environment	3
2) Product Specifications	4
3) VSWR	5
4) Antenna 2D Report	6
5) Total Efficiency& Gain:	7
6) Antenna 3D Report	8
3.Antenna Size	9

Overall Performance

1)Test Environment

The Gain, Efficiency, Directivity and 2/3D Pattern

3D Anechoic Chamber

Testing range from 300MHz to 8.5GHz

Chamber Room Size: L*W*H=9*4.7*4.7 M

VSWR

Testing range from 300KHz~8.5GHz

Network Analyzer(Agilent-E5071C or R&S ZVL)

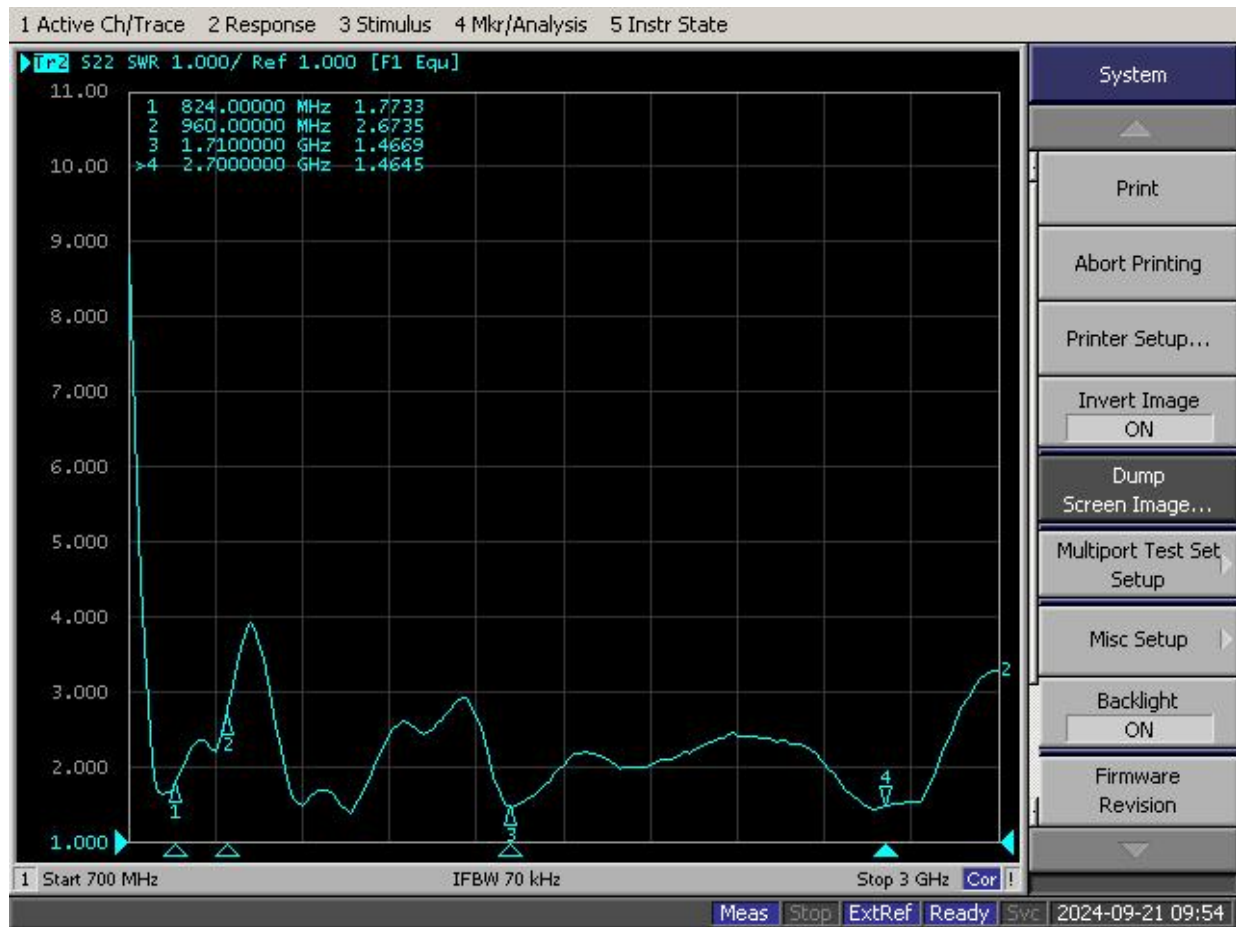


2) Product Specifications

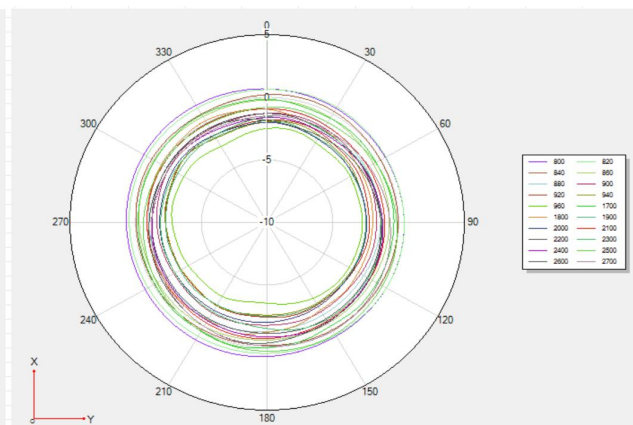
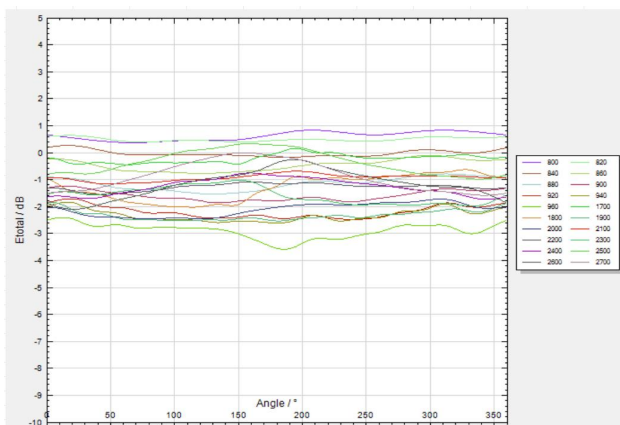
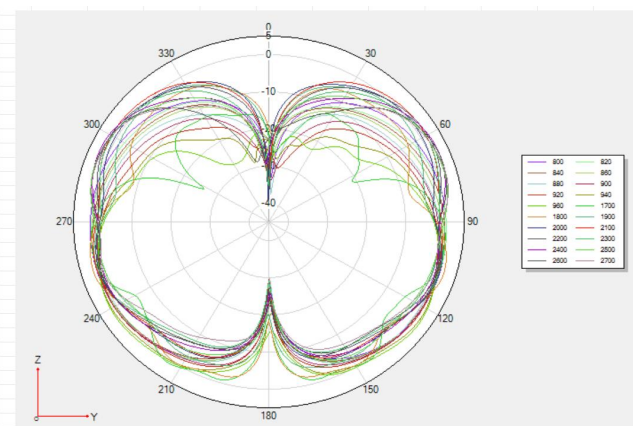
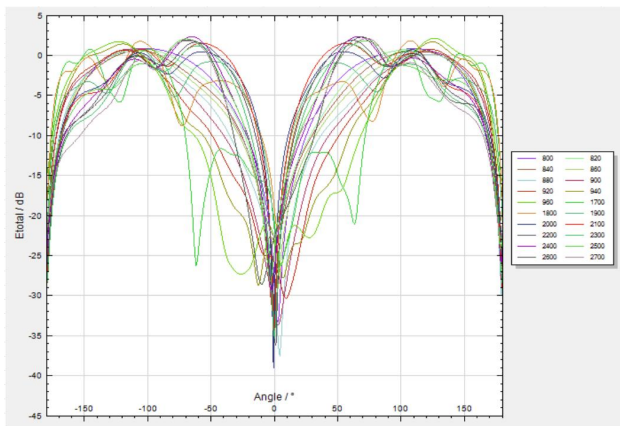
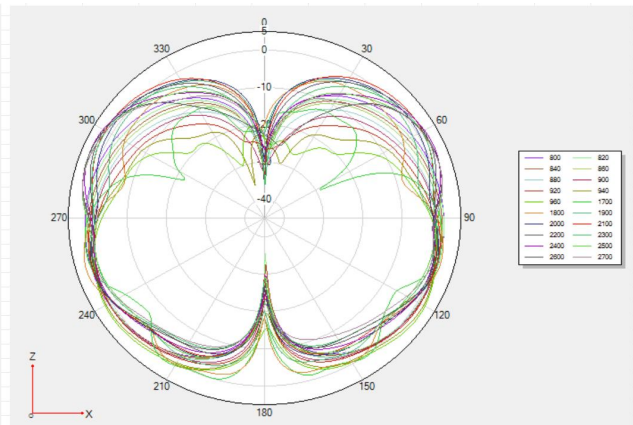
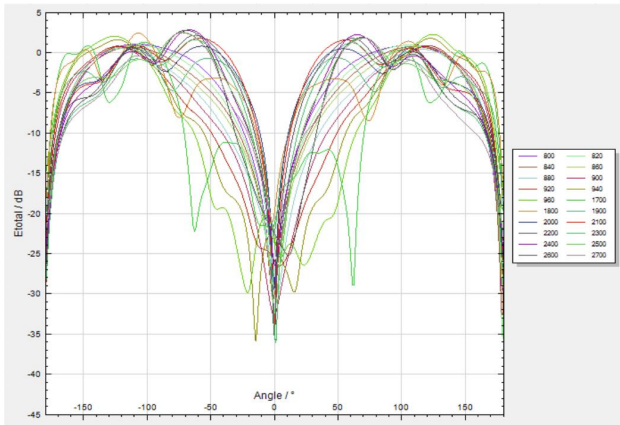
Electrical Specifications	
Model	FG00115
Frequency band	4G(700~2700MHz)
Gain	4dBi
Horizontal Beamwidth	360°
Vertical Beamwidth	45±3°
VSWR	≤1.92
Ovality	≤2dB
Impedance	50Ω
Polarization	Vertical
Max. Power	100W
Lightning Protection	Dc ground
Connector	N-Female
Mechanical Specifications	
Dimension(mm)	φ25*400mm
Weight(kg)	0.450Kg
Internal material	Copper tube
Radome Color	White
Operational Humidity	<95%
Rated Wind Velocity	36.9 m/s
Radome material	Glass fiber reinforced plastic
Operating temperature	-40~55℃

3) VSWR

Frequency (MHz)	700	960	1710	2700
VSWR	1.1858	1.7575	1.2418	1.1172



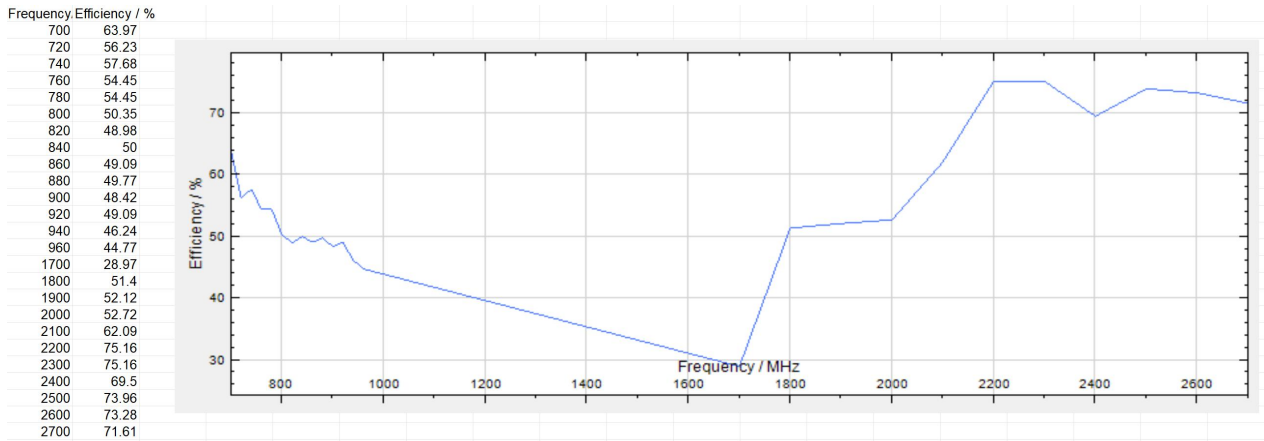
4) Antenna 2D Report



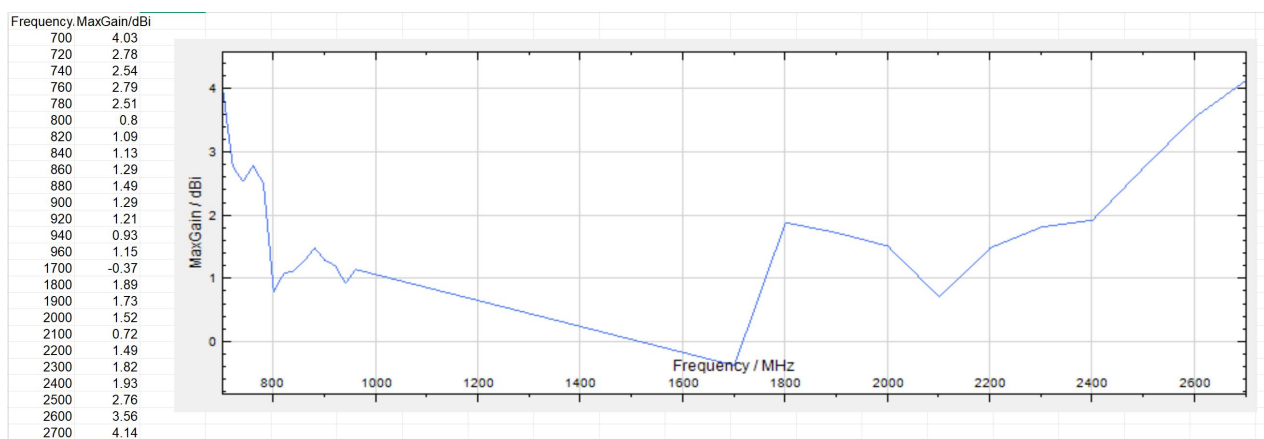
5) Total Efficiency& Gain:

Frequency(MHz)	Gain(dBi)	Efficiency(%)
700	4.03	63.97
960	1.15	44.77
1700	-0.37	28.97
2700	4.14	71.61

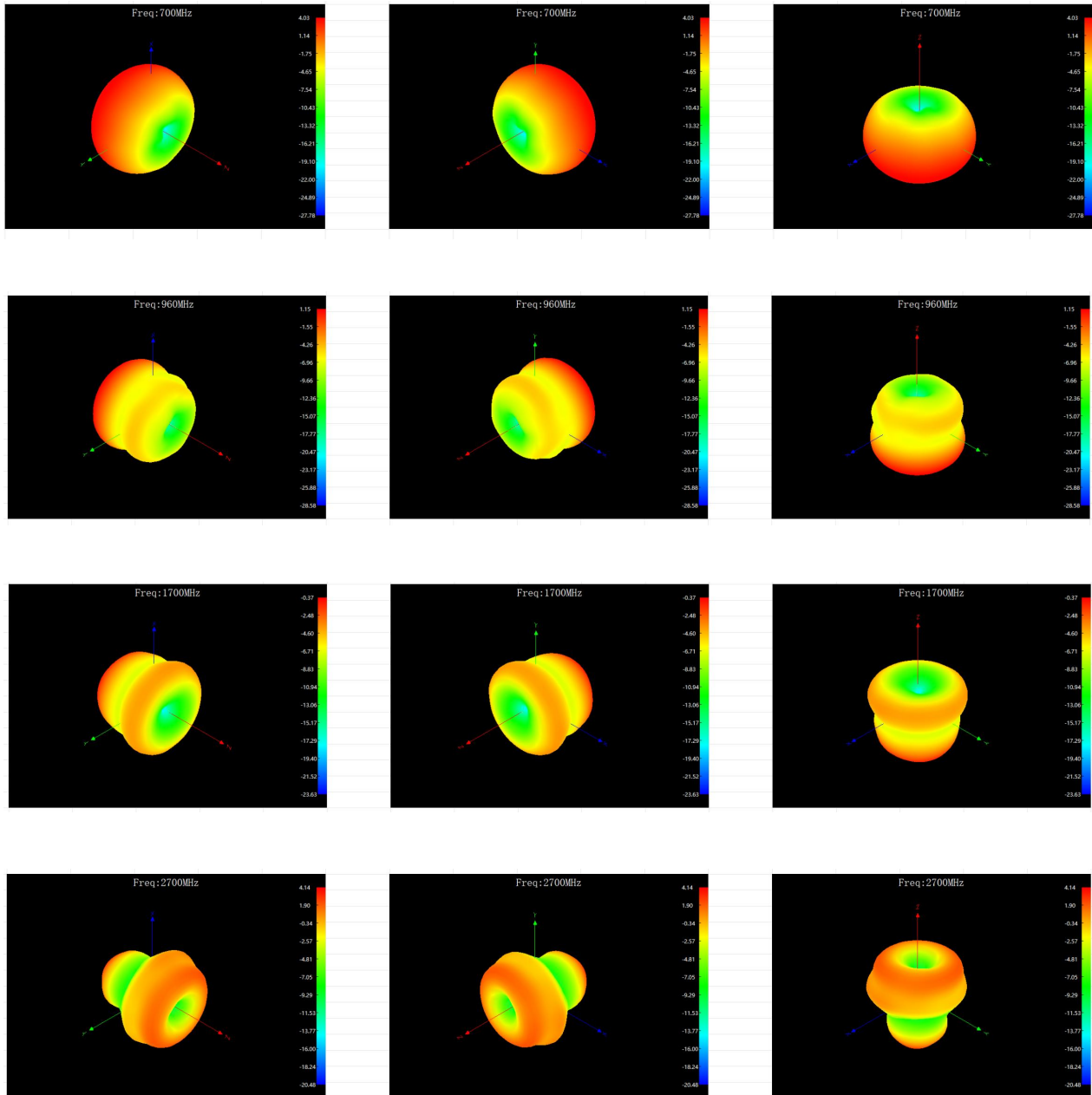
Antenna Efficiency

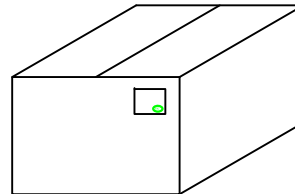
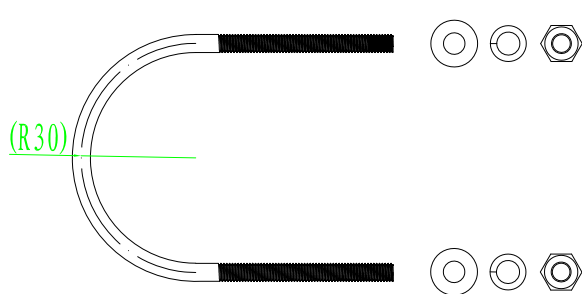
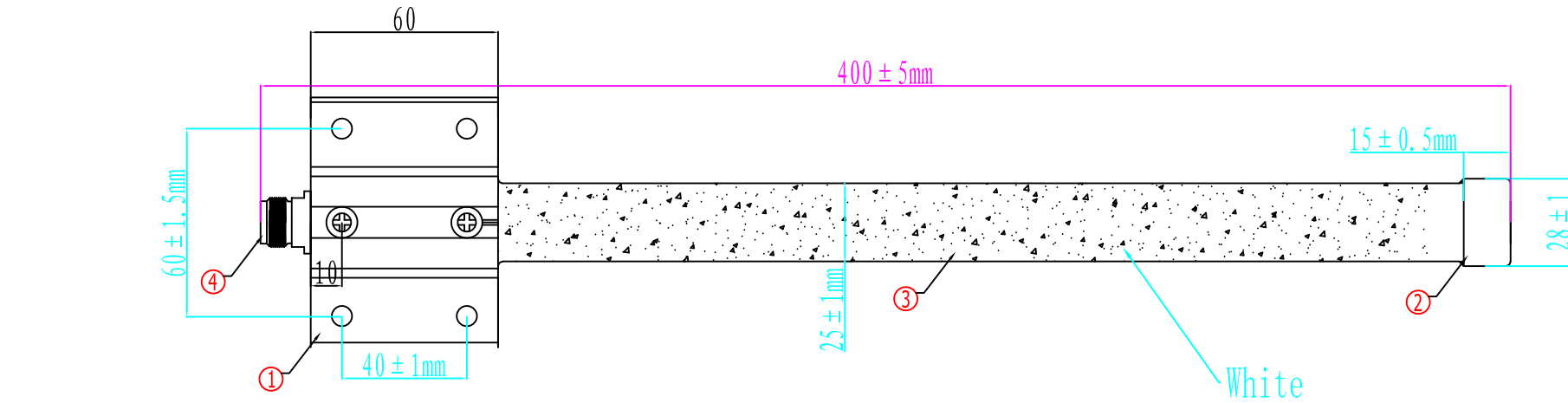


Peak Gain



6) Antenna 3D Report





Specification:
Frequency Rang:700~2700MHz
Return Loss:-10.0 dB or less
VSWR:1.92 Max
Gain:3~5dBi

- 1.PCS/ROHS label shall be affixed to the outer carton label
- 2.The outer carton shall be labeled with 1PCS/ outer carton on the upper right corner of the outer carton

4	Connector	N-K Straight out (Brass,NI-Plated)	1	
3	Cap	Antenna cap (Plastic) White	1	
2	Protective sleeve	PVC White Transparent	1	
1	Clamp code	(aluminum alloy)	1	
NO	DESCRIPTION		Q'TY	REMARK

TITLE:		N Female Omni Antenna		 KEESUN Shenzhen Keesun Technology Co., Ltd					
P/N:		FG00115							
CUSTOMER:									
DRAW NO.:				 APPROVED					
DIMENSIONS TOLERANCES UNLESS OTHERWISE NOTED									
一般公差 TOLERANCE		.XXX	±0.05	XX.	±1.0	SHEET: 1/1	SCALE: 1:1	CHECKED	
		.XX	±0.1						
		.X	±0.2						
		X.	±0.5			UNIT: mm	REV.A	DRAWED	Julia