Product Datasheet

CW-WZ-0031

4G External Antenna

Key Features

Frequency: 698-960MHz/1710-2700MHz

SMA Male Connector

External Rubber

Dimensions 50*8 mm

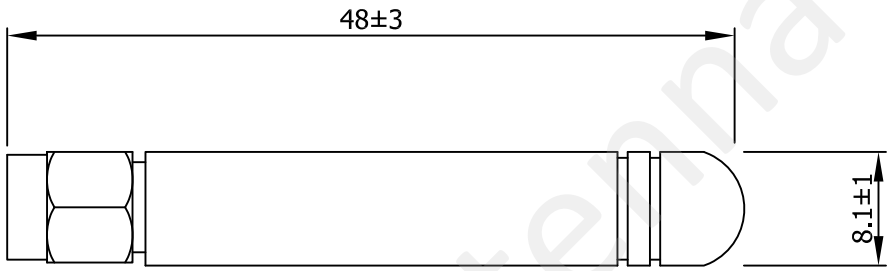
1. Antenna Electrical Characteristics

Band (MHz)		
Frequency (MHz)	698-960MHz	1710-2700MHz
VSWR	3:1	2:1
Efficiency (%)	55.78%	69.3%
Peak Gain (dBi)	1.72	4.04
Impendance (Ohm)	50	
Polarisation	Vertical	
Max. Input Power (W)	10	
Connector Type	SMA male	

2. Material and environmental characteristics

Material of PCB	FR4
Material of Plastic	TPEE
Cable Type	N/A
Connector Type	SMA male
Dimensions (mm)	50*8MM
Antenna color	Black
Operation Temperature	-40 to +80
Storage Temperature	-40 to +80
Antenna Storage life(year)	10
Substance Compliance	ROHS

REV	Date	Description
X1	2021/09/08	New issue



Specification(Free Test):

Frequency Range: 698-960MHZ/1710-2700MHZ

Impedance: 50Ω

V.S.W.R: ≤3/2

NO	Name	Description	Q'TY	Remark
4	Signal pole	Brass	1	
3	Connector	SMA male	1	
2	PCB	FR4	1	
1	Radome	Black TPEE	1	

XX.	±5.0	Approved	Customer		
X.	±3.0		Part NO.		
.X	±1.0	Checked	Part name	External antenna	
.XX	±0.2		CW P/NO.	CW-WZ-0031	
.XXX	±0.1	Drawing	REV	Unit	File :
			X1	m/m	Sheet : 1/1

Cowin Antenna

4. Antenna test parameters

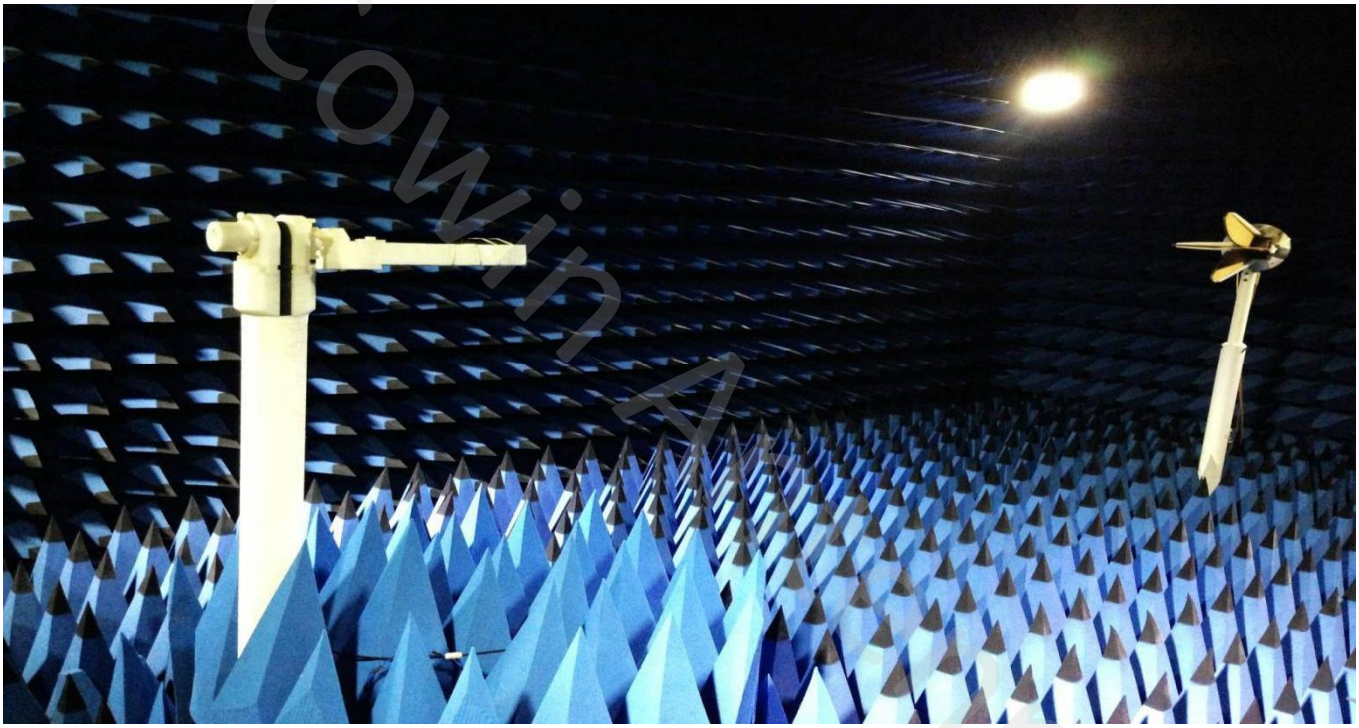
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

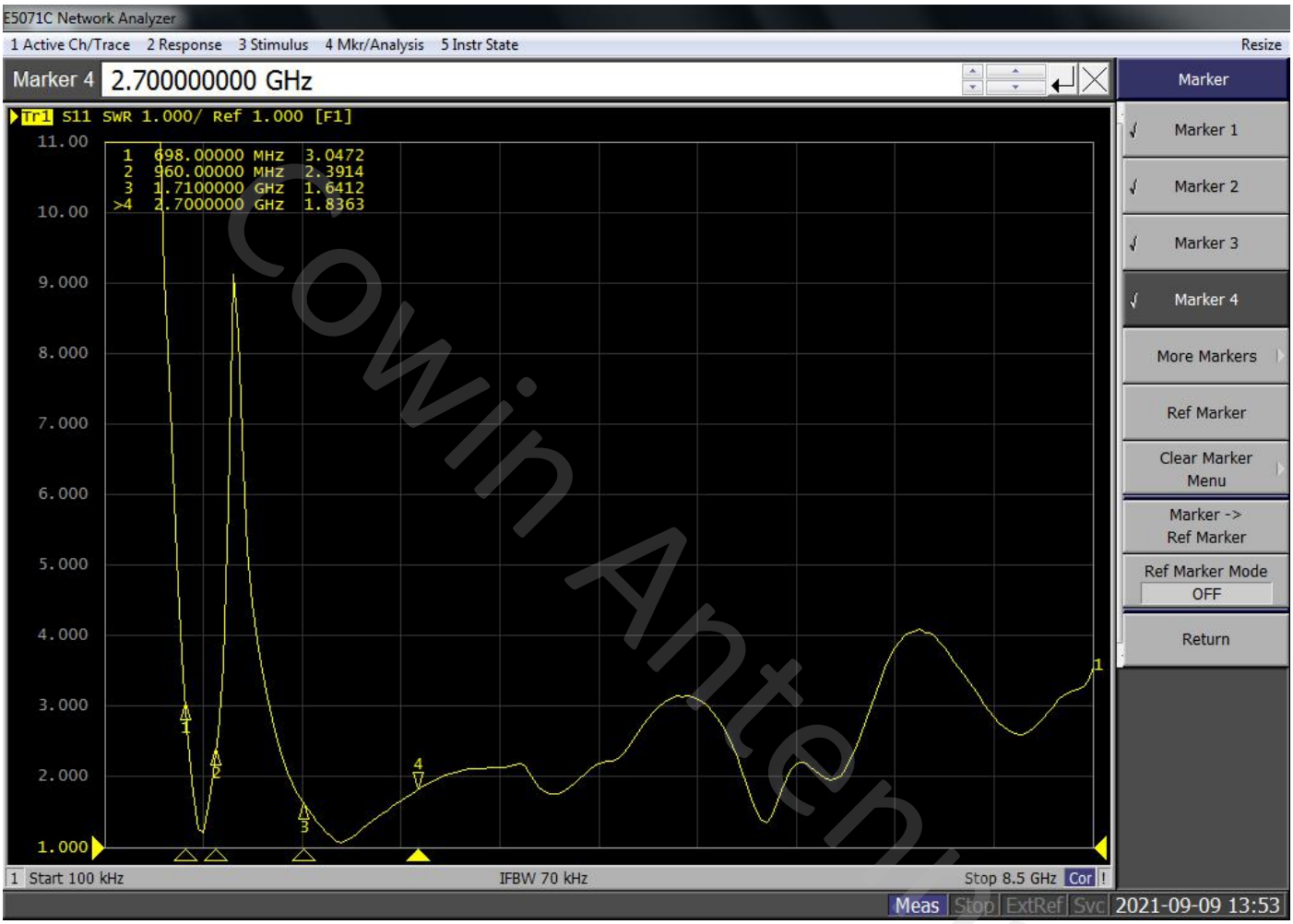
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

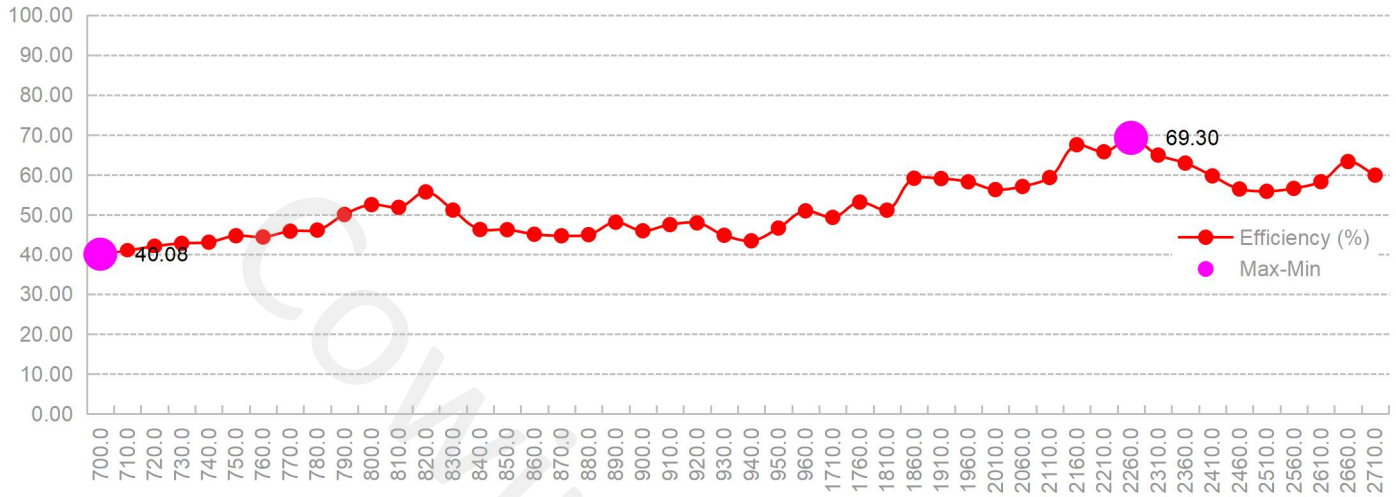
The comprehensive tester is Agilent cmv500



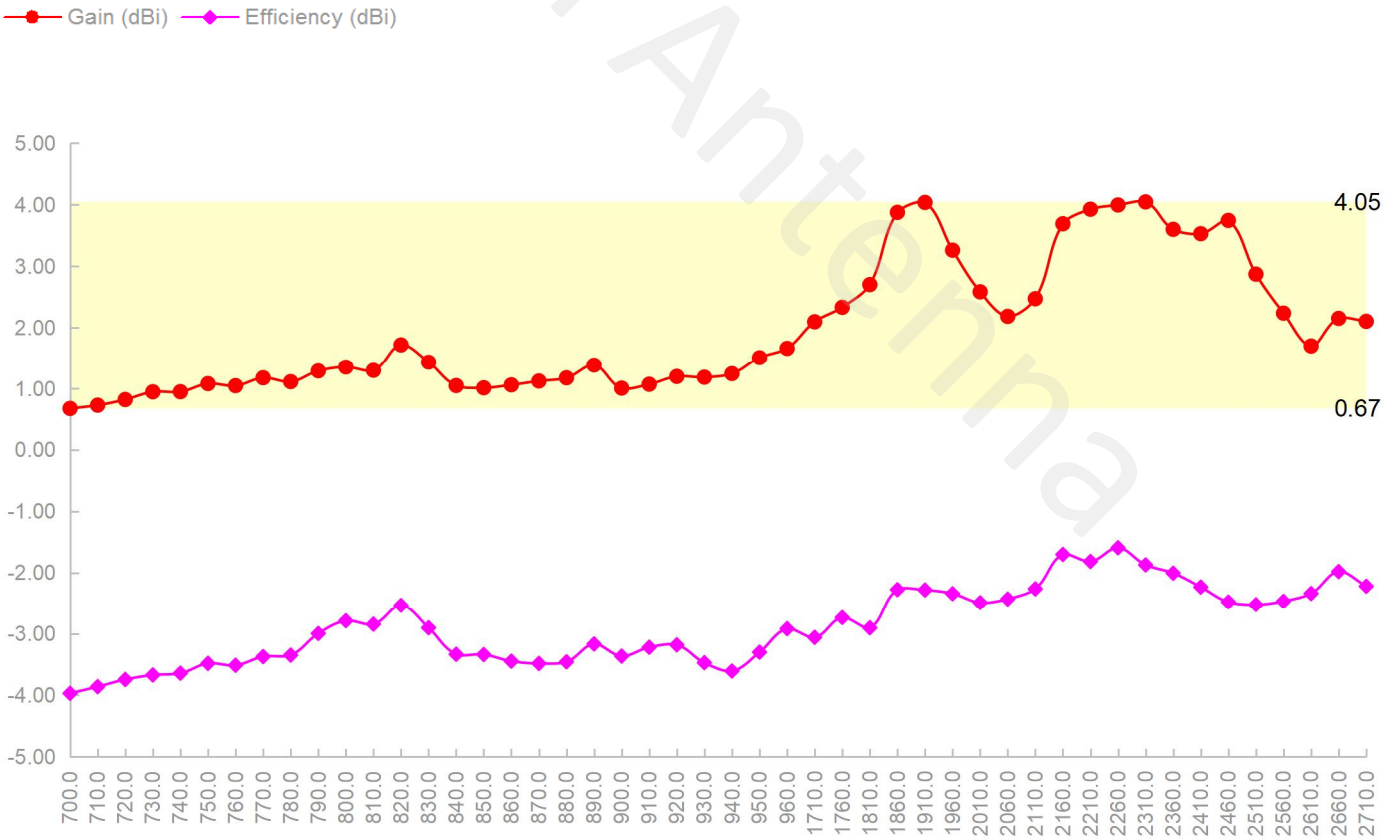
4.1 VSWR



4.2 Efficiency



4.3 Peak gain



4.4 3D&2D Radiation Patterns