KEESUN
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Antenna
EX20216 Datasheet

Antenna Services

Version:1.0

Date: 2026-11-02

Status: Released



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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)



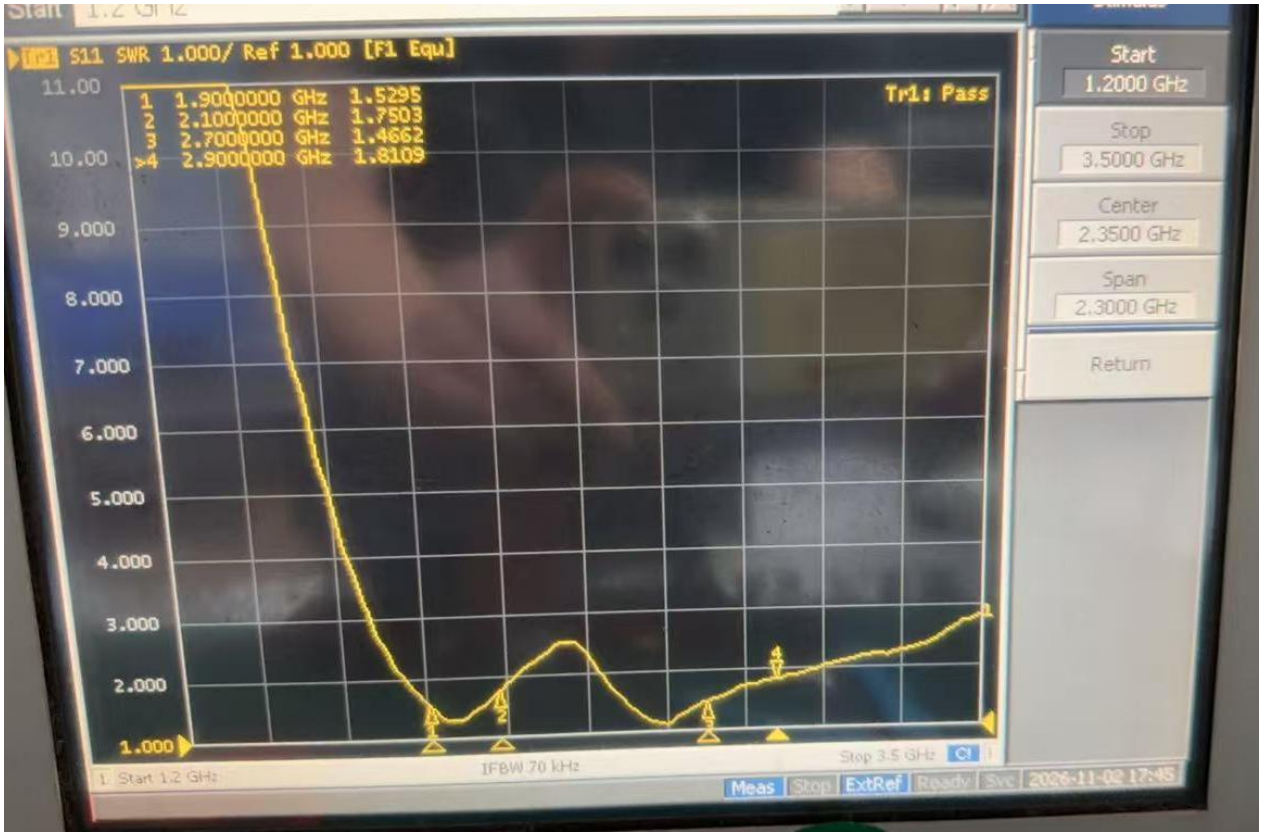


2) Product Specifications

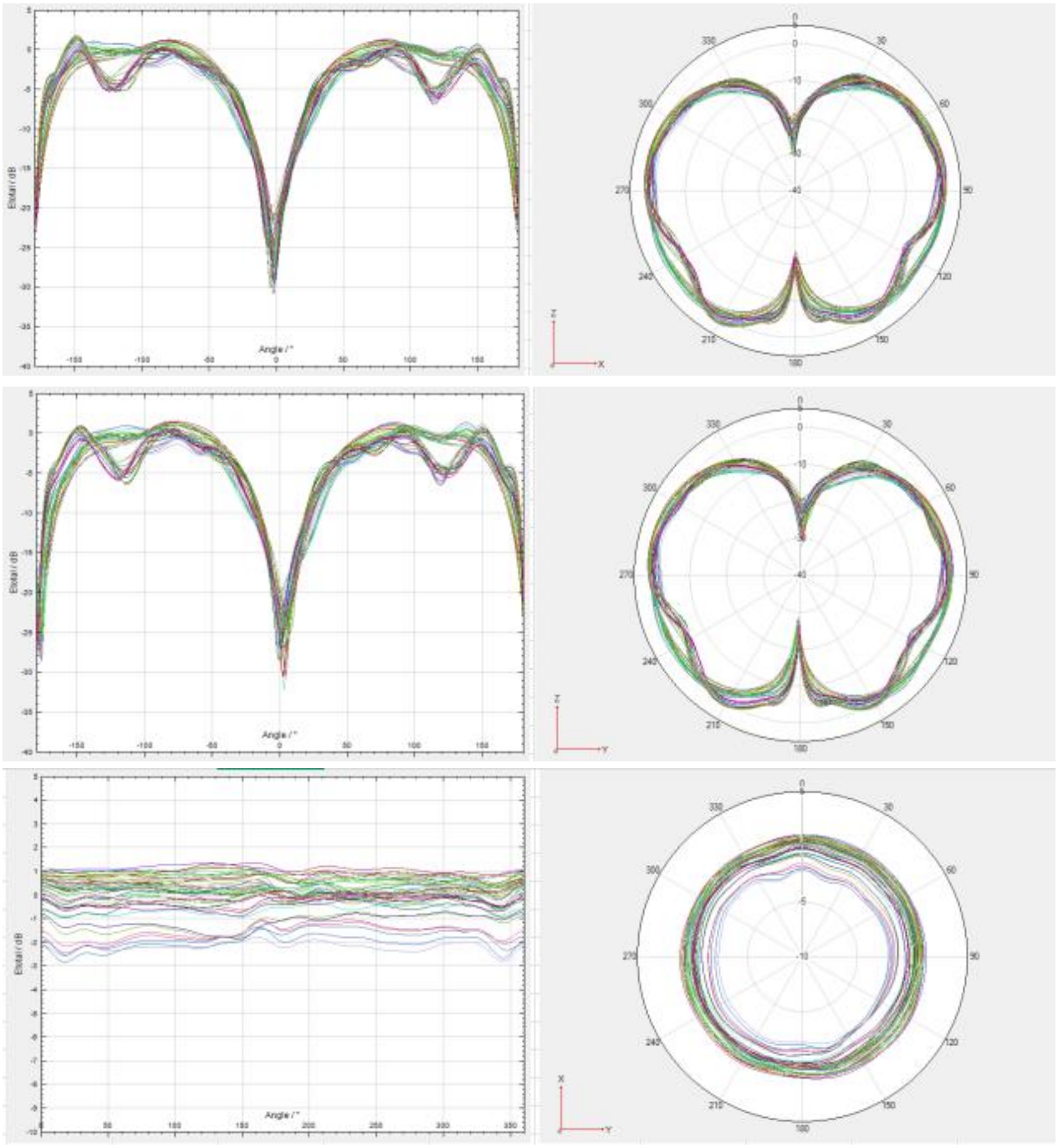
Electrical Specifications	
Model	EX20216
Frequency band	1700~1900~2700~2900MHz
Gain	2dBi
Horizontal Beamwidth	360º
VSWR	≤1.92
Ovality	≤2dB
Impedance	50Ω
Polarization	Vertical
Max. Power	50W
Lightning Protection	Dc ground
Connector	SMA-male
Mechanical Specifications	
Dimension(mm)	¢15*150 mm
Weight(kg)	0.02Kg
Internal material	Copper tube
Radome Color	Black
Radome material	ABS
Operating temperature	-40～55℃

3) VSWR

Frequency (MHz)	1.9	2.1	2.7	2.9
VSWR	1.5295	1.7503	1.4662	1.8109



4) Antenna 2D Report

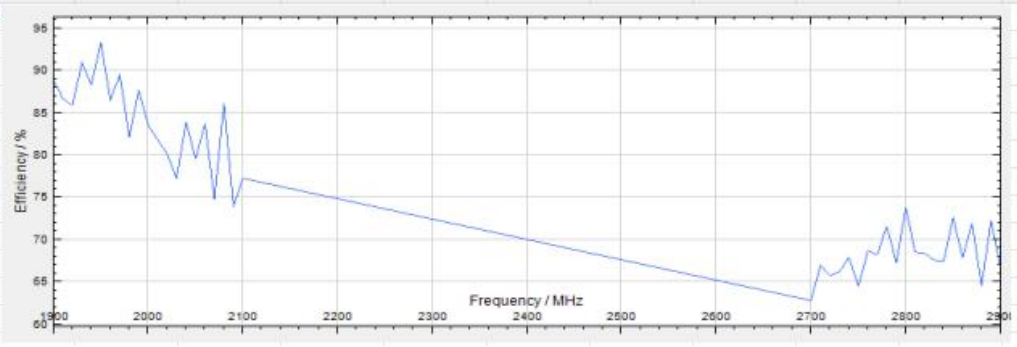


5) Total Efficiency& Gain:

Frequency(MHz)	Gain(dBi)	Efficiency(%)
1900	1.36	88.92
1960	1.75	86.5
2000	2.08	83.56
2060	2.08	83.75
2100	2.02	77.27
2700	2.43	62.81
2760	1.9	68.71
2780	2.25	71.61
2800	1.21	73.79
2860	1.65	67.92
2900	1.14	66.83

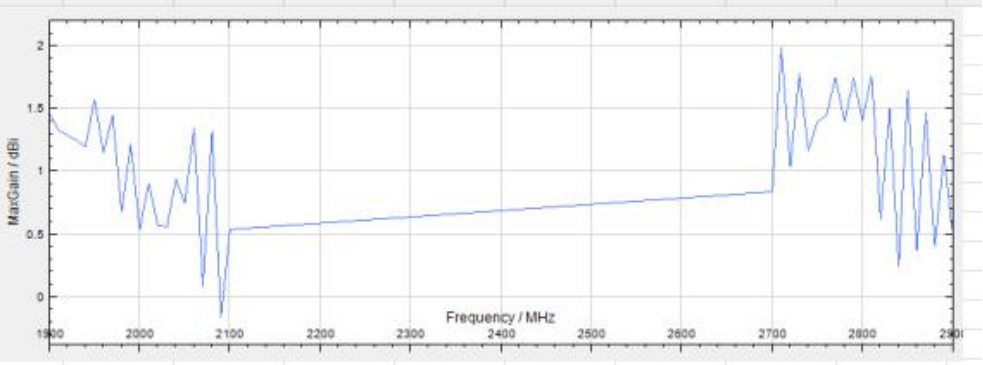
Antenna Efficincy

Frequency	Efficiency / %
1900	88.92
1960	86.5
2000	83.56
2060	83.75
2100	77.27
2700	62.81
2760	68.71
2780	71.61
2800	73.79
2860	67.92
2900	66.83

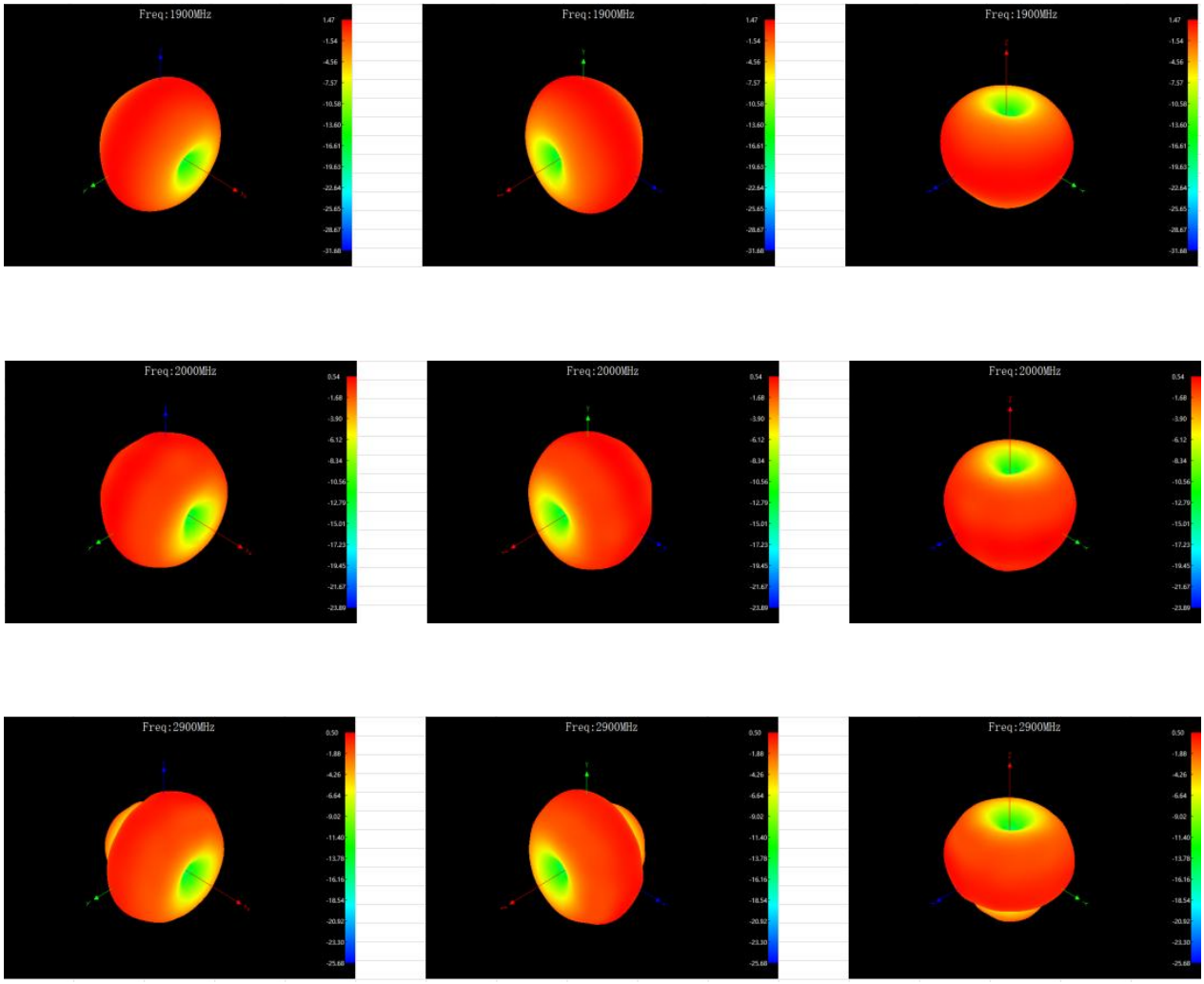


Peak Gain

Frequency	MaxGain/dBi
1900	1.47
1960	1.15
2000	0.54
2060	1.35
2100	0.54
2700	0.84
2760	1.45
2780	1.4
2800	1.41
2860	0.37
2900	0.5



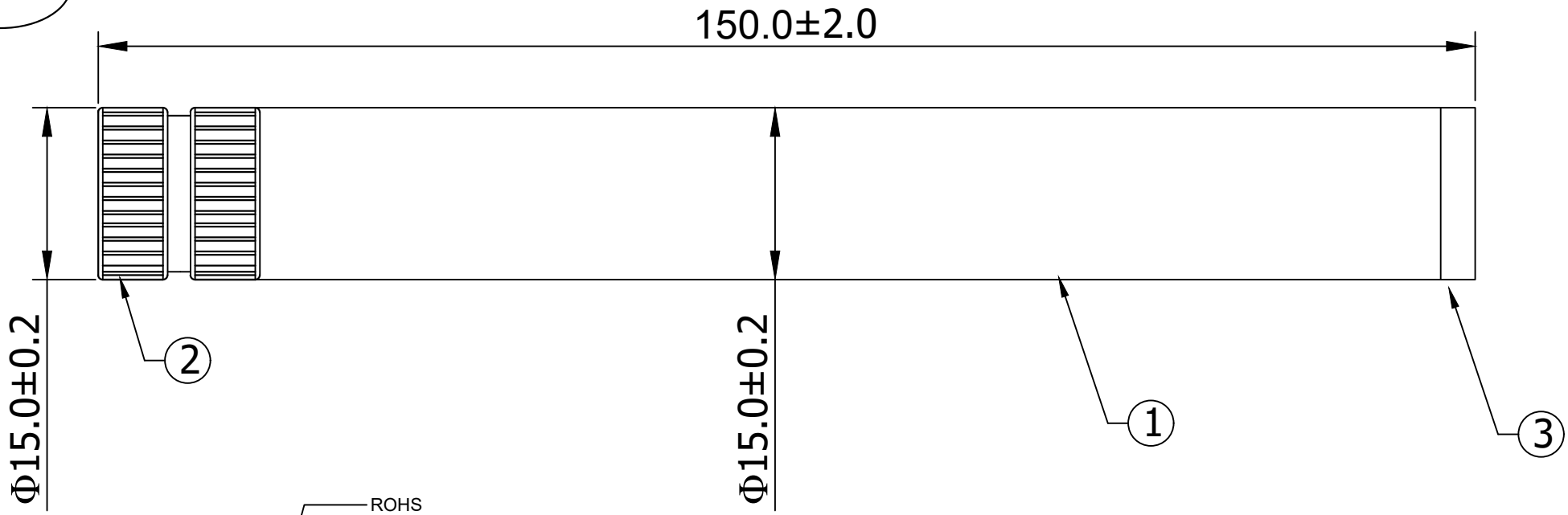
6) Antenna 3D Report

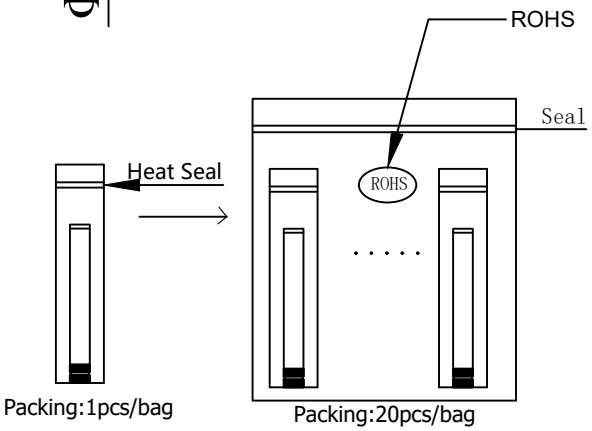


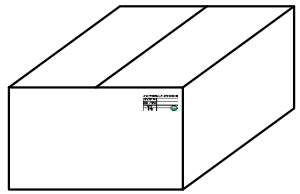
Drawing

REV.	DESCRIPTION	DATE
A	New	2026.11.2

ROHS







1.1PCS/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

Specification:
Frequency Rang:1700~1900~2700~2900MHz
Return Loss:-10dB or less
VSWR:1.92Max
Gain:2.0dBi

NO	DESCRIPTION	Q'TY	REMARK
3	Antenna Cap (R) Fiberglass ,Color:Black	1	
2	Connector SMA Male	1	
1	Antenna Cap (L) Fiberglass ,Color:Black	1	

TITLE:	Antenna Assembly
P/N:	EX20216
CUSTOMER:	
DRAW NO.:	
DIMENSIONS TOLERANCES UNLESS OTHERWISE NOTED	

一般公差 TOLERANCE

.XXX	±0.05	XX.	±1.0
.XX	±0.1		
.X	±0.2		
X.	±0.5		

KEESUN
Shenzhen Keesun Technology Co.,Ltd

SHEET: 1/1	SCALE: 1:1	APPROVED	
UNIT: mm	REV.A	CHECKED	
		DRAWED	Julia