

Antenna

EX20200 Datasheet

Antenna Services

Version:1.0

Date: 2025-10-16

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)

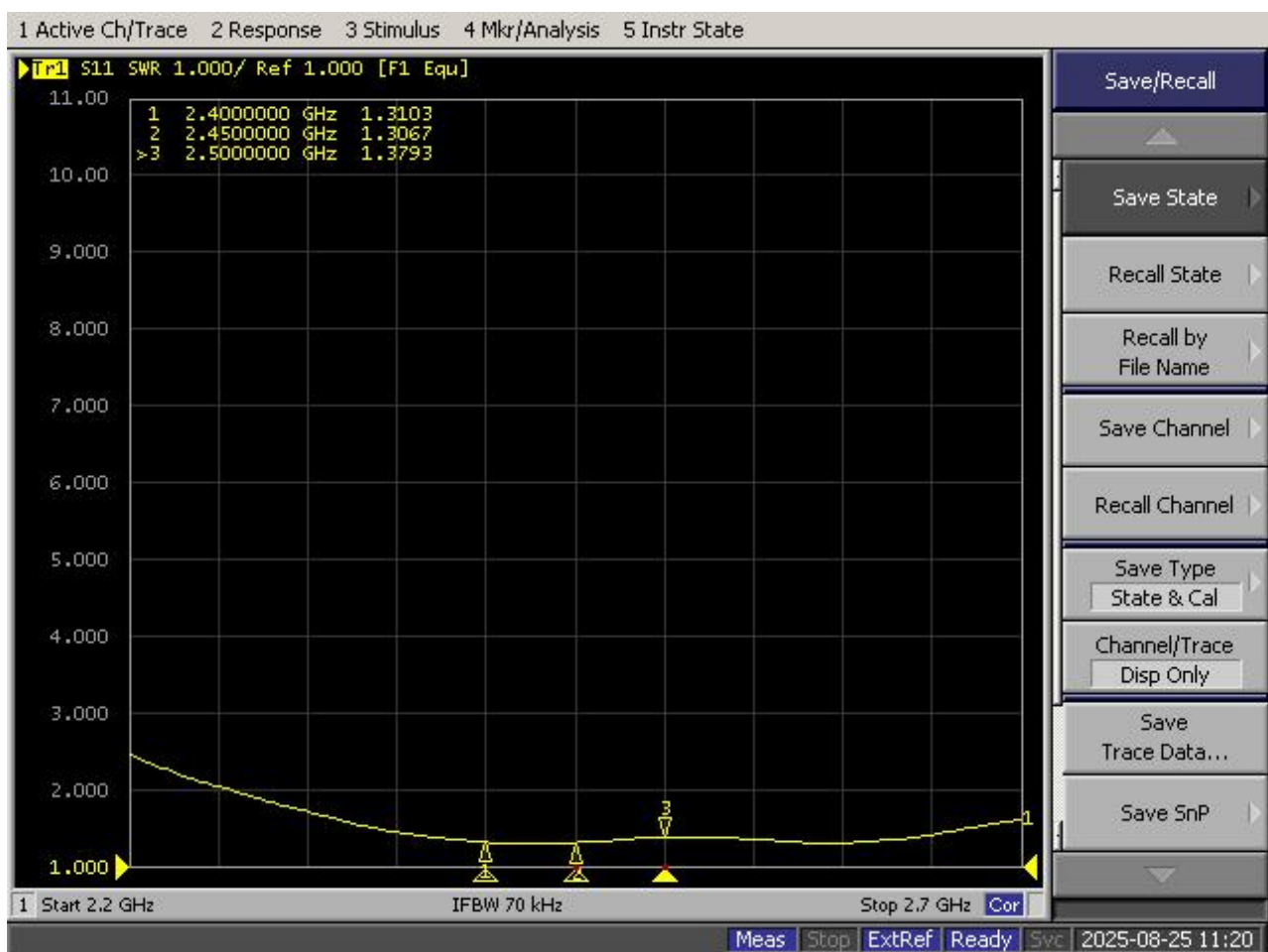


2) Product Specifications

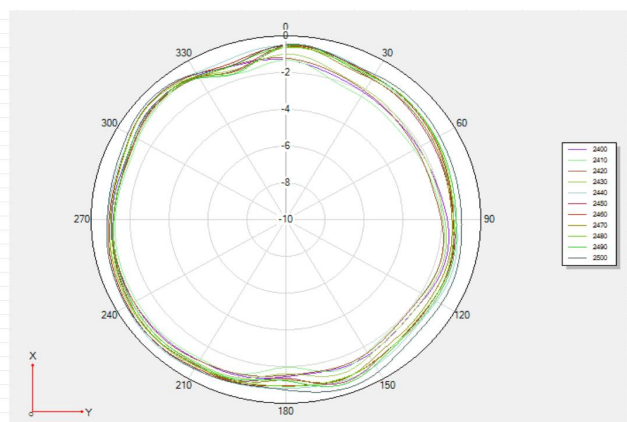
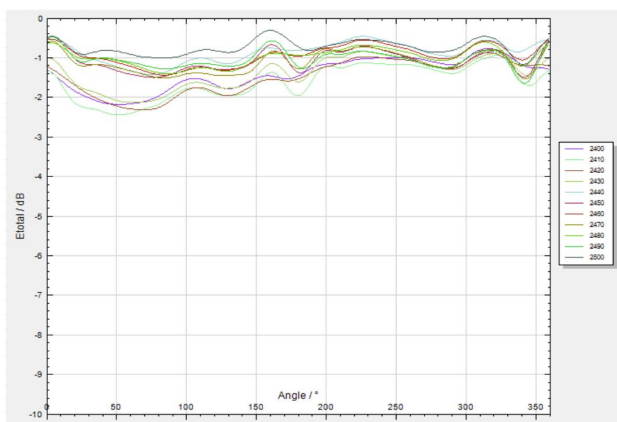
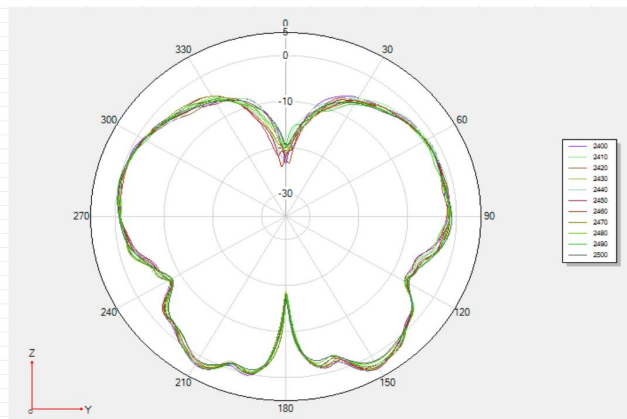
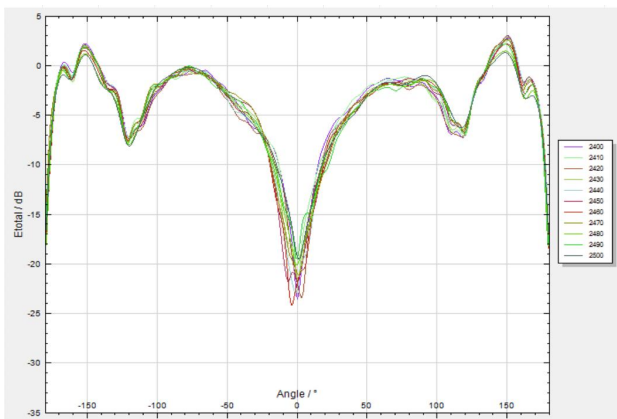
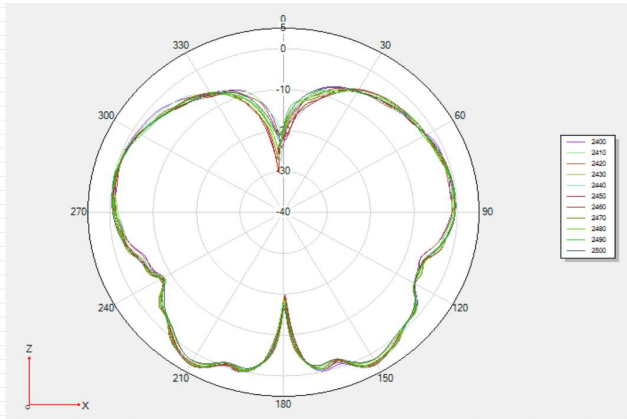
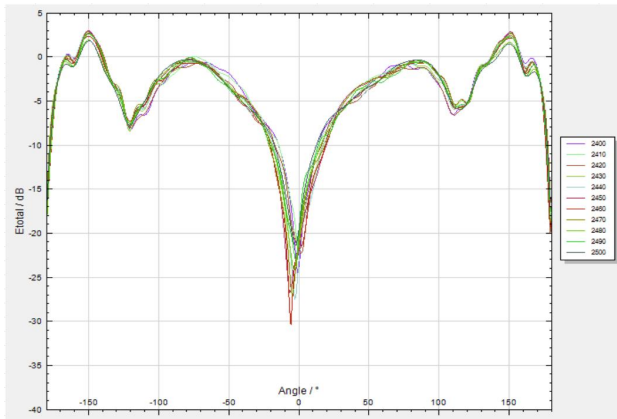
Electrical Specifications	
Model	EX20200
Frequency band	2.4~2.5GHz
Gain	3dBi
Horizontal Beamwidth	360°
VSWR	≤1.92
Ovality	≤2dB
Impedance	50Ω
Polarization	Vertical
Max. Power	50W
Lightning Protection	Dc ground
Connector	SMA-male
Mechanical Specifications	
Dimension(mm)	φ13*157 mm
Weight(kg)	0.02Kg
Internal material	Copper tube
Radome Color	Black
Radome material	ABS
Operating temperature	-40~55℃

3) VSWR

Frequency (GHz)	2.4	2.45	2.5
VSWR	1.3103	1.3067	1.3793



4) Antenna 2D Report

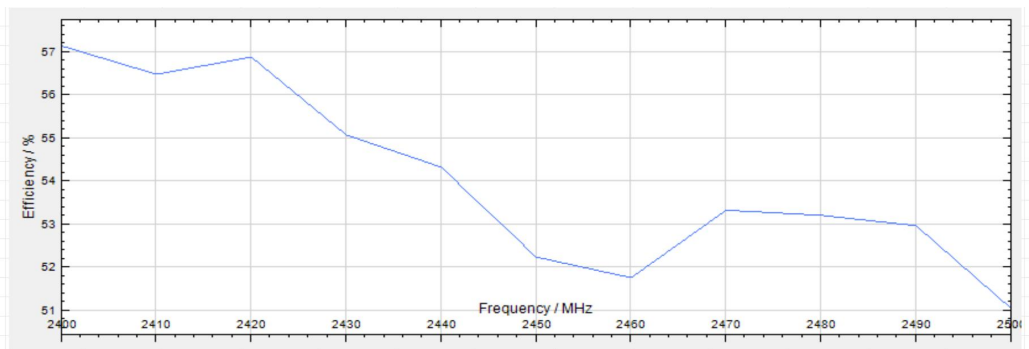


5) Total Efficiency& Gain:

Frequency(MHz)	Gain(dBi)	Efficiency(%)
2400	3.21	57.15
2410	2.83	56.49
2420	2.82	56.89
2430	2.98	55.08
2440	3.13	54.33
2450	3.14	52.24
2460	2.55	51.76
2470	3.01	53.33
2480	2.16	53.21
2490	2.86	52.97
2500	2.13	51.05

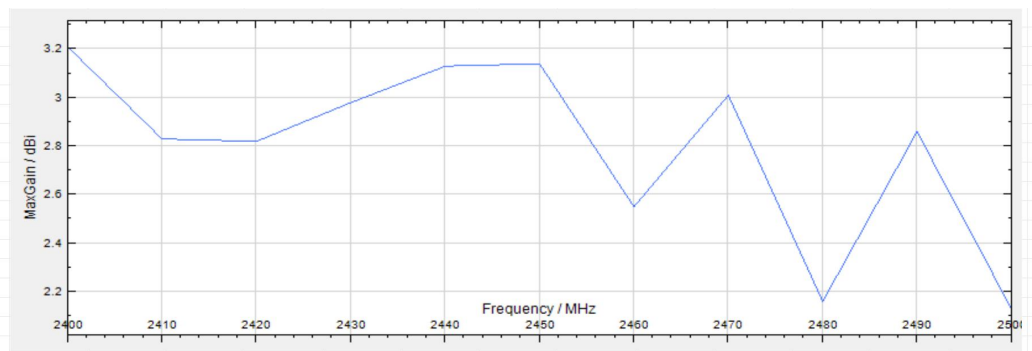
Antenna Efficiency

Frequency	Efficiency / %
2400	57.15
2410	56.49
2420	56.89
2430	55.08
2440	54.33
2450	52.24
2460	51.76
2470	53.33
2480	53.21
2490	52.97
2500	51.05

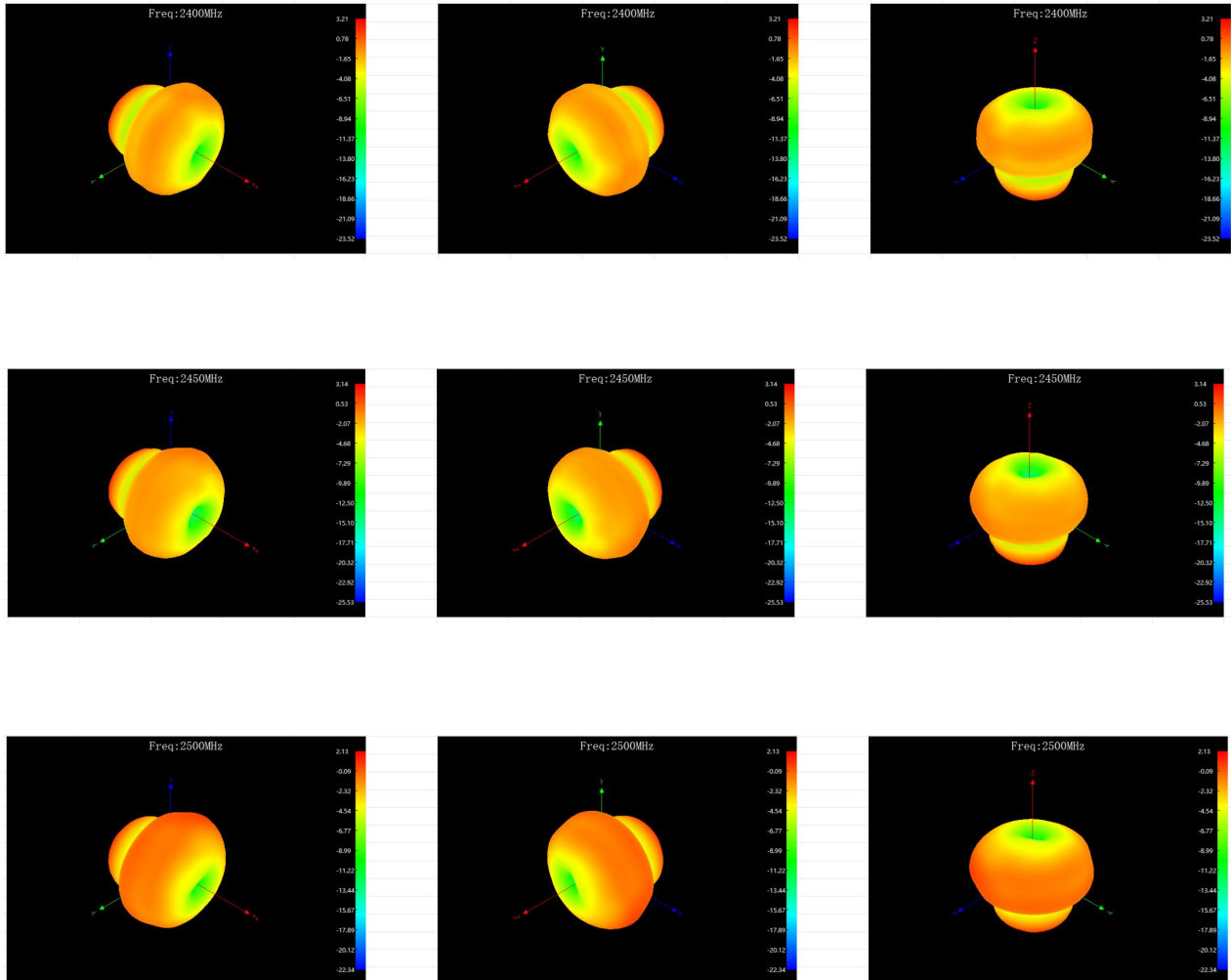


Peak Gain

Frequency	MaxGain/dBi
2400	3.21
2410	2.83
2420	2.82
2430	2.98
2440	3.13
2450	3.14
2460	2.55
2470	3.01
2480	2.16
2490	2.86
2500	2.13



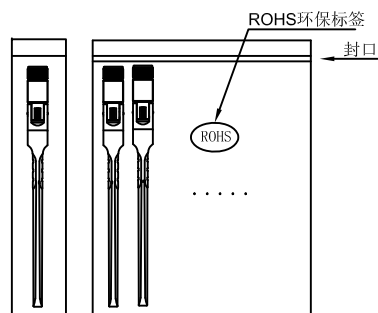
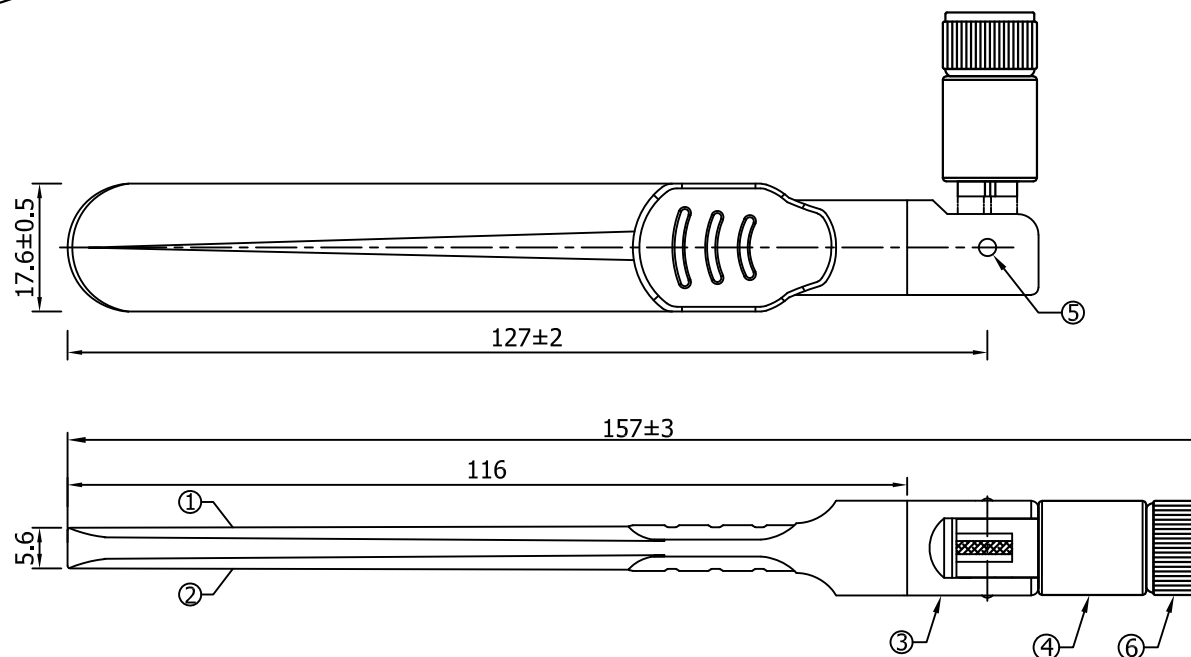
6) Antenna 3D Report



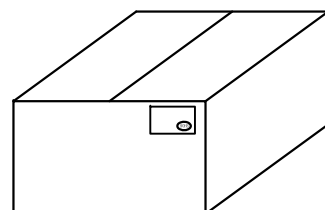
Drawing

ROHS

REV.	DESCRIPTION	DATE
A	New	2025.10.16



1PCS/Bag Packing:20PCS/Bag



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:2.4GHz
Return Loss:-10dB or less
VSWR:1.92 Max
Gain:3 dBi

6	Connector	SMA Straight Plug Reverse for RG-178	1	
5	Rivet	PBT+PC,Color:Black	2	
4	Bottom Base	PBT+PC,Color:Black	1	
3	Upper Base	PBT+PC,Color:Black	1	
2	Antenna Housing(R)	ABS+PC,Color:Black	1	
1	Antenna Housing(L)	ABS+PC,Color:Black	1	
NO.	DESCRIPTION		Q'TY	REMARK

TITLE:		2.4GHz Antenna		KEESUN Shenzhen Keesun Technology Co., Ltd															
P/N:		EX20200																	
CUSTOMER:																			
DRAW NO.:																			
DIMENSIONS TOLERANCES UNLESS OTHERWISE NOTED								APPROVED											
一般公差 TOLERANCE								SHEET: 1/1		SCALE: 1:1		CHECKED							
												UNIT: mm		REV.A		DRAWED		Julia	