

Shenzhen Keesun Technology Co., Ltd.

Product datesheet

Product P/N EX20063

Product Description: 2.4G/5.8G Black Wi-Fi

Antenna with RP-SMA Connector.

Guest households: _____

Client P/N: _____

KEESUN		
QA	R&D	Marketing Dept
Wu Miaoyan	Liao haibin	Liu chenglan

Client		
Affirm	Examine and Verify	Ratify
Bear fruit: ☐	Accept ☐	Refuse
Suggestion:		

Antenna manufacturer: Shenzhen Keesun Technology Co., Ltd.
Antenna manufacturer address: Room 401, No. 11, Tongfu Industrial Zone, Heping Community, Fuhai Street, Bao'an District, Shenzhen, China

Catalogue

[illegible]

Product Specification Overview

●Electrical Performance:

1. Frequency Range: 2.4~2.5GHz/5.15~5.85GHz
2. Impedance: 50 Ohms nominal
3. VSWR: ≤ 1.92
4. Gain: 2.4G 2.66 dBi 5G 1.65dBi
5. Connector Type: RP-SMA

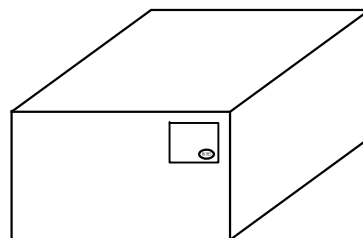
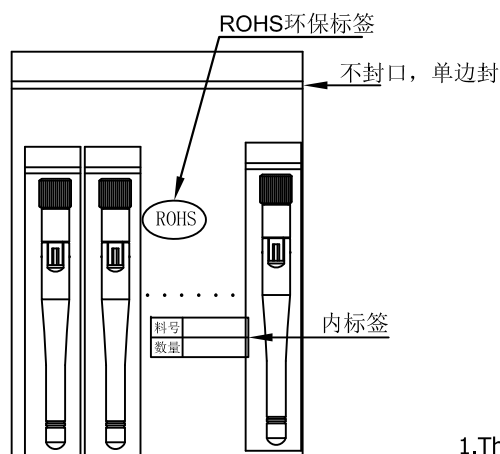
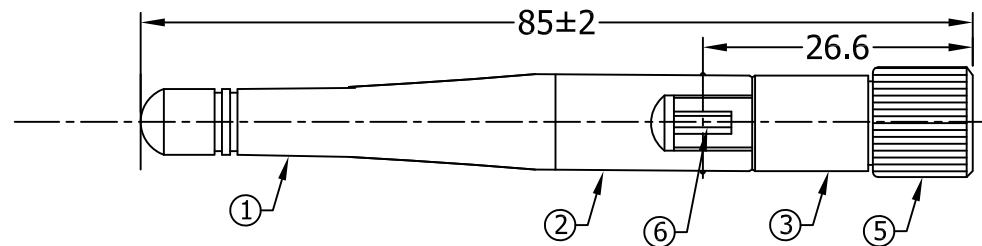
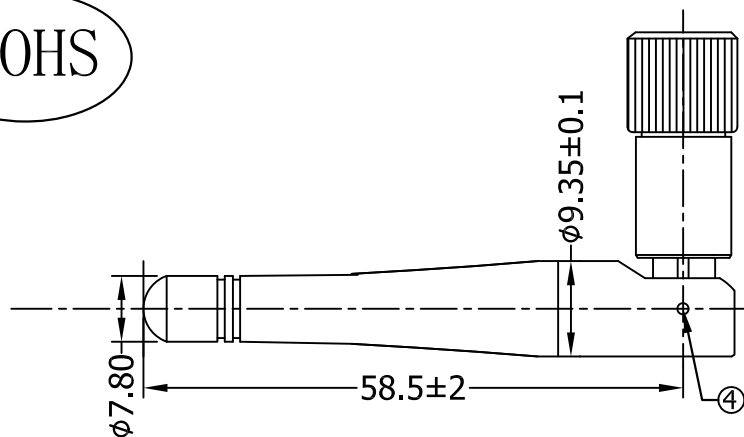
●Mechanical properties:

1. Cable: RG178 cable,50 Ohm
2. Operation temperature range: -20°C~ +70°C
3. Storage temperature range: -30°C~ +80°C
4. Color:Black

Drawing

ROHS

REV.	DESCRIPTION	DATE
A	New	2024.11.19



Specification:

Frequency Rang:2.4~2.5GHz5.15~5.85GHz

Return Loss:-10dB or less

VSWR:1.92 Max

Gain:2.6 dBi

- 1.The outer box requires 1PCS/RoHS label on the outer box label
- 2.The outer box requires 1PCS/outer box label
- 3.On the upper right corner of the outer box side wheat

6	Cable	RG-178 Cable,Transparency Brown,50Ω	1	
5	Connector	SMA Straight J/R for RG-178	1	
4	Rivet	POM,Color:Black	2	
3	Bottom Base	PBT+PC,Color:Black	1	
2	Upper Base	PBT+PC,Color:Black	1	
1	Antenna Cap	TPEE,Color:Black	1	
NO	DESCRIPTION		Q'TY	REMARK

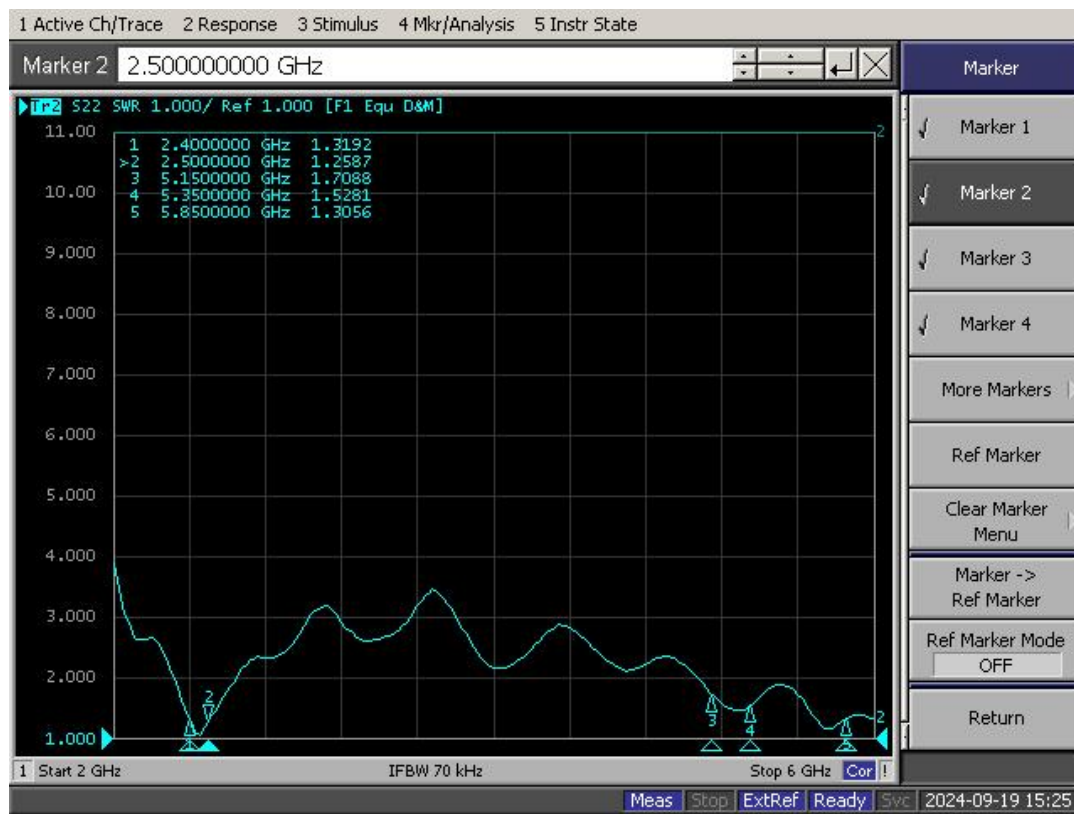
TITLE:		SMA Antenna with PIN		 KEESUN Shenzhen Keesun Technology Co.,Ltd					
P/N:		EX20063							
CUSTOMER:									
DRAW NO.:									
DIMENSIONS TOLERANCES UNLESS OTHERWISE NOTED									
一般公差 TOLERANCE		.XXX	±0.05	XX	±1.0	SHEET: 1/1	SCALE: 1:1	APPROVED	
		.XX	±0.1					CHECKED	
		.X	±0.2			UNIT: mm	REV.A	DRAWED	Julia
		X	±0.5						

Shenzhen Keesun Technology Co., Ltd.

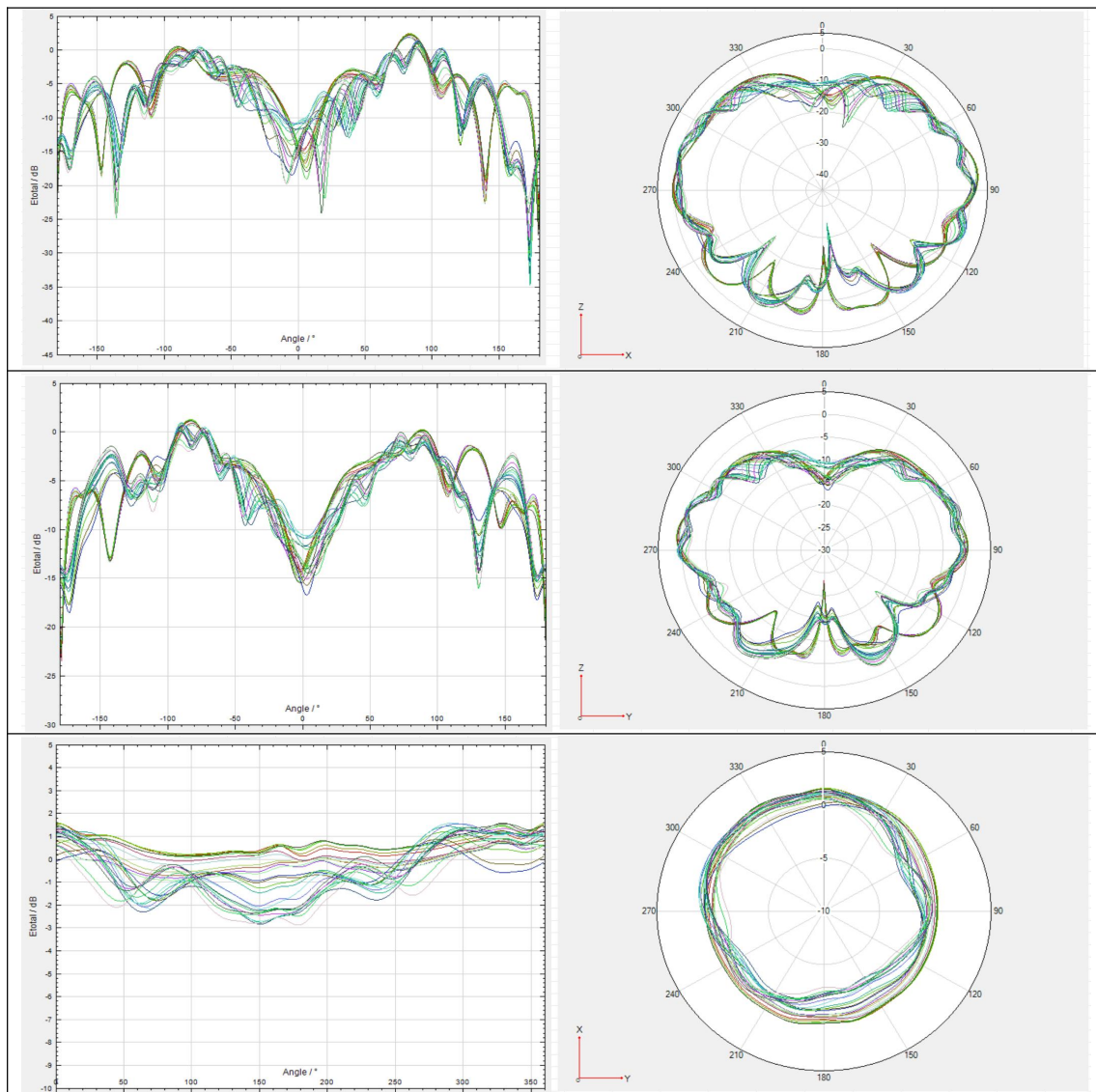
Network analyzer test pattern

P / N(Part Number):EX20063

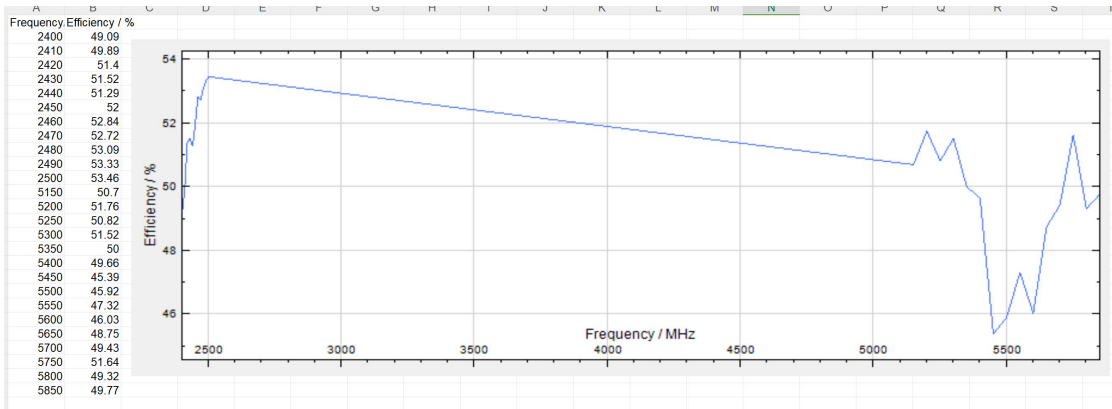
Title specification: 2.4~2.5GHz/5.15~5.85GHz Φ 9.35 ANTENNA Test
value:Return Loss/VSWR



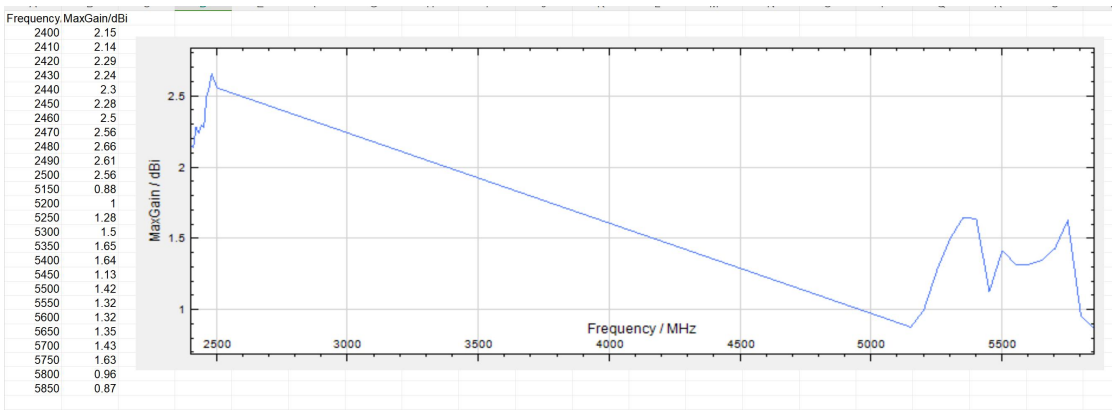
Antenna 2D Report(2.4GHz/5.8GHz)



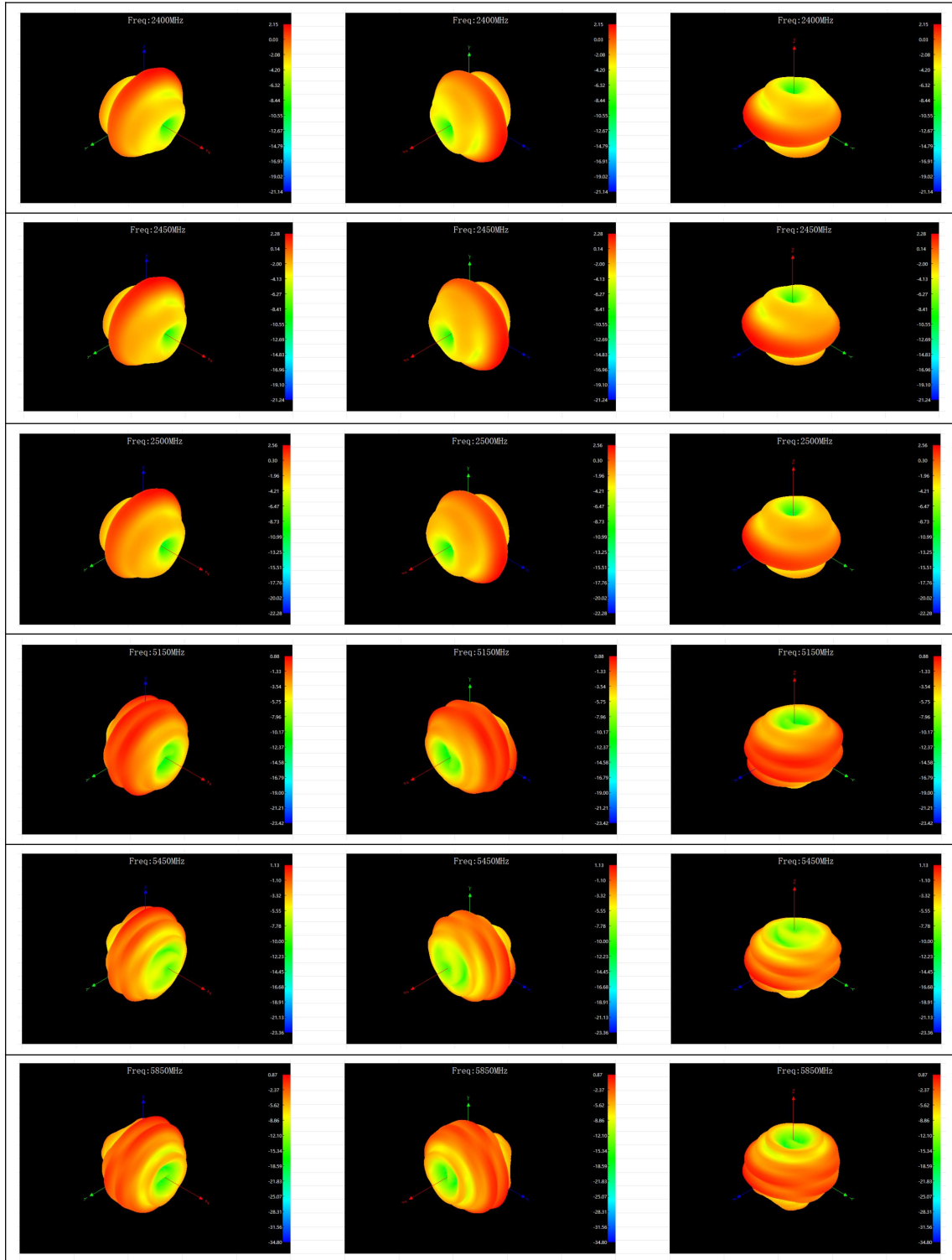
Antenna Peak Efficiency



Antenna Peak Gain



Antenna 3D Report(2.4GHz/5.8GHz)



Antenna standard parameters

一、Technical specifications

Operating frequency range	2.4~2.5GHz/5.15~5.85GHz
S.W.R	≤1.92
Antenna gain	2.4G 2.66 dBi 5G 1.65dBi
Switching mode	RP-SMA
Impedance	50 Ohm

二、Reliability test

Project	Test condition	Specifications
Storage environment	Temperature, humidity, and air pressure are tested in the absence of specified conditions: 1 temperature is -30 degrees C to +80 2 relative humidity is 45%-85% 3 air pressure is 86kpa-106kpa	Normal electrical and mechanical properties
High and low temperature test	Between 70 and 40 degrees C for 5 cycles, and then under normal conditions 1-2H, check the appearance quality.	The dimensions shall meet the requirements and shall meet the requirements of the mechanical and electrical properties.
Resistance to constant damp heat test	Relative humidity 95 + 3%, the test temperature: 40 degrees C, after continuing the 2H effect, the test sample after taking out the electrical performance of 5min, test product under normal conditions 1-2H, check the appearance quality	The dimensions shall meet the requirements and shall meet the requirements of the mechanical and electrical properties.
Vibration test	Frequency range 10-55HZ, displacement amplitude: 0.35MM, acceleration amplitude: 50.0M/S, sweep frequency cycle times: 30 times	Normal electrical and mechanical properties
Drop test	1m high altitude drop	Normal electrical and mechanical properties
Drawing force test	To test the bearing strength with push pull test instrument: 10N	Normal electrical and mechanical properties
Voltage resistance	1 insulation spark voltage 1.5KV 2 sheath spark voltage 1.5KV 3 insulation resistance to sheath voltage 0.5KV	Normal electrical and mechanical properties
Attenuation value	2.0(nominal) 1.0GHz 2.9(nominal) 2.0GHz 3.2(nominal) 2.4GHz 3.7(nominal) 3.0GHz 4.3(nominal) 4.0GHz 4.8(nominal) 5.0GHz 5.3(nominal) 6.0GHz	3.3dB/m (at20°C)