

Shenzhen Keesun Technology Co., Ltd.

Product datesheet

Product P/N _____ KS170-10011-A Product _____

Description: 5.8G External antenna SMA _____

Head and tail needles (nickel plated) L = 346MM White Laser
engraving: 5.8G _____

Client: _____

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:		

Catalogue

[illegible]

Product Specification Overview

●Electrical Performance:

1. Frequency Range: 5.8GHz
2. Impedance: 50 Ohms nominal
3. VSWR: ≤ 1.92
4. Gain: 7dBi
5. Connector Type:SMA 母针

●Mechanical properties:

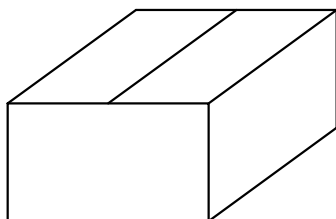
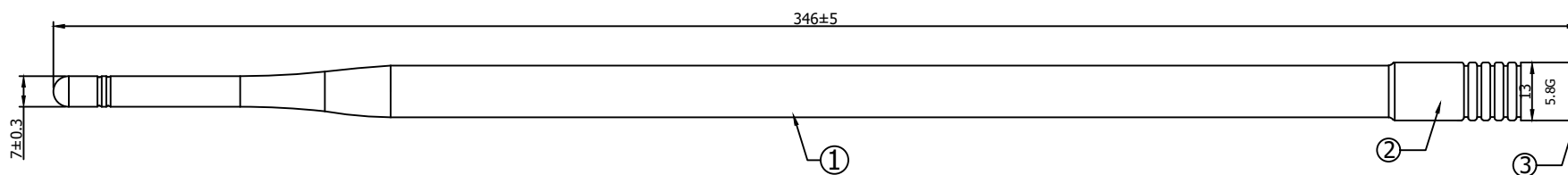
1. Cable: RG178Cable,50 Ohm
2. Operation temperature range: $-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$
3. Storage temperature range: $-30^{\circ}\text{C} \sim +80^{\circ}\text{C}$
4. Color:Black



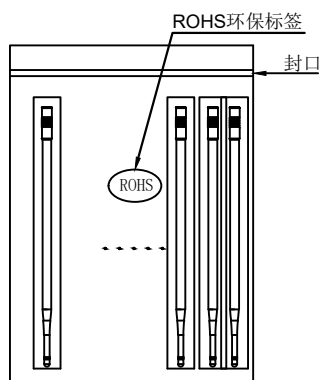
Drawing

ROHS

REV.	DESCRIPTION	DATE
A	New	2026.06.05



- 1.外箱需贴1PCS/ROHS标签于外箱标签上
- 2.外箱需贴1PCS/外箱标签于外箱侧麦右上角



Packing:20pcs/bag

Specification:
Frequency Rang:5.18~5.85GHz
Return Loss:-10dB or less
VSWR:1.92 Max
Gain:7.0 dBi

3	Connector	SMA Straight Plug Reverse for RG-178	1	公头母针
2	Cable	MI1.78 Cable,Transparency Black,50Ω	1	
1	Antenna Cap	ABS,Color:Black	1	
NO	DESCRIPTION		Q'TY	REMARK

TITLE:		5.8G Antenna		KEESUN Shenzhen Keesun Technology Co.,Ltd									
P/N:													
CUSTOMER:		KS170											
DRAW NO.:		KS170-10011-A		 APPROVED									
DIMENSIONS TOLERANCES UNLESS OTHERWISE NOTED								CHECKED					
一般公差 TOLERANCE		.XXX ±0.05		XX. ±1.0		SHEET: 1/1		SCALE: 1:1		CHECKED			
		.XX ±0.1											
		.X ±0.2				UNIT: mm		REV.X1		DRAWED			
		X. ±0.5											

Shenzhen Keesun Technology Co., Ltd.

Network analyzer test pattern

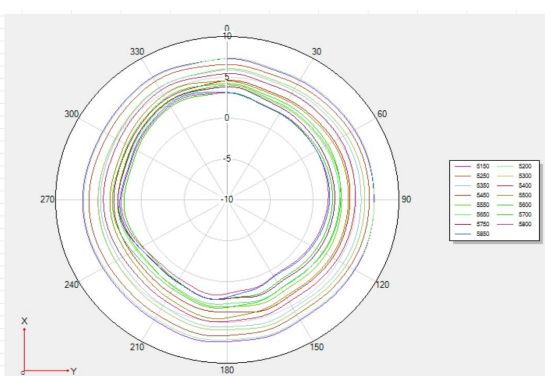
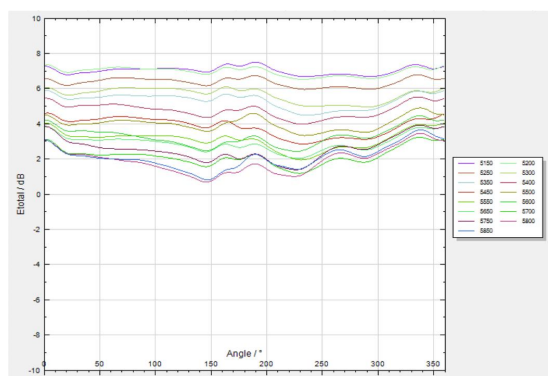
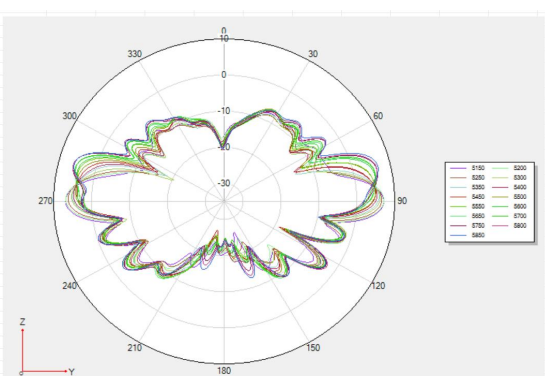
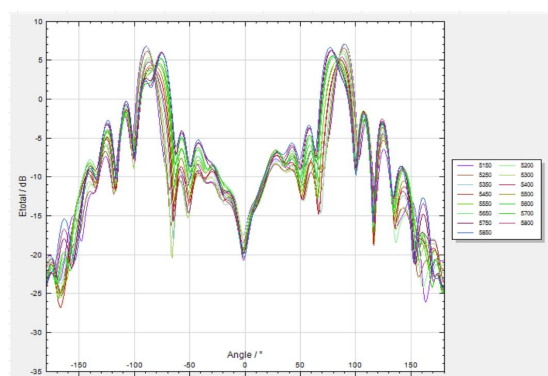
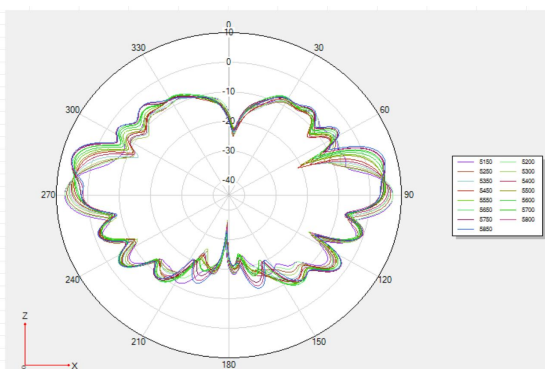
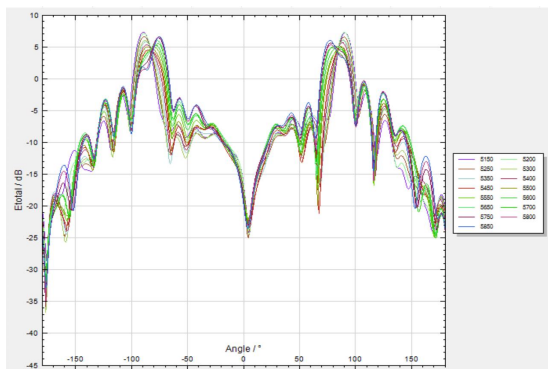
P / N(Part Number):KS170-10011-A

Title specification: 5.8GHz Rubber antenna

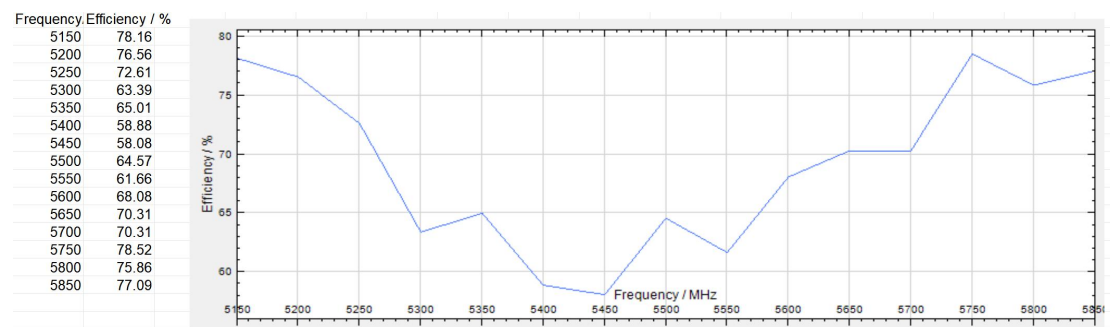
Test value:Return Loss/VSWR



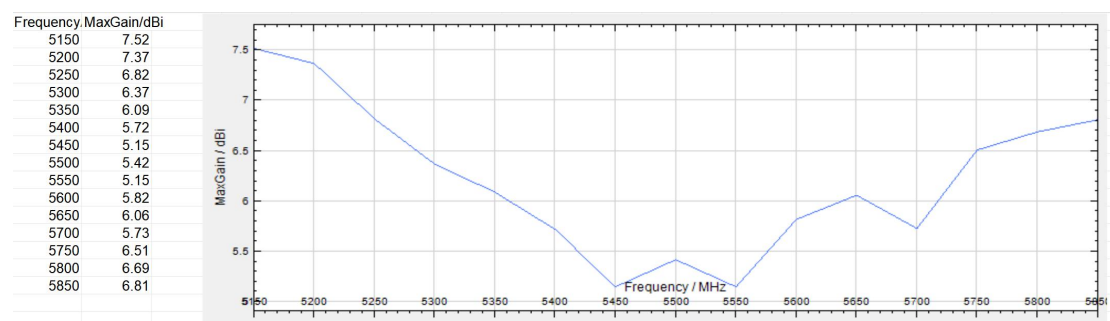
Antenna 2D Report



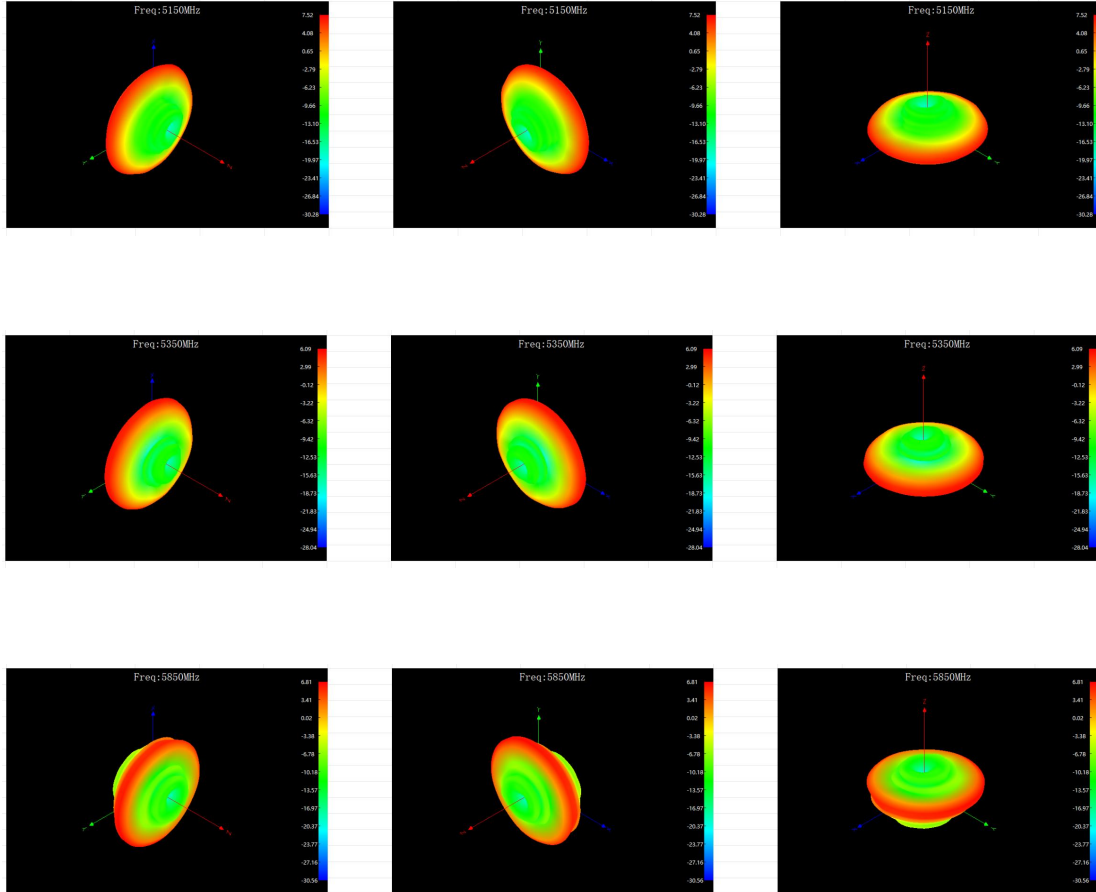
Antenna Efficiency



Gain



Antenna 3D Report



Antenna standard parameters

一、 Technical specifications	
Operating frequency range	5.8GHz
S.W.R	≤ 1.92
Antenna gain	7dBi
Switching mode	SMA 母针
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	<table><tr><td>Frequency</td><td>Standard value(dB/1m)</td></tr><tr><td>1GHz</td><td>≤2.1</td></tr><tr><td>2GHz</td><td>≤3.0</td></tr><tr><td>3GHz</td><td>≤3.7</td></tr><tr><td>4GHz</td><td>≤4.35</td></tr><tr><td>5GHz</td><td>≤5.0</td></tr><tr><td>6GHz</td><td>≤5.5</td></tr></table>	Frequency	Standard value(dB/1m)	1GHz	≤2.1	2GHz	≤3.0	3GHz	≤3.7	4GHz	≤4.35	5GHz	≤5.0	6GHz	≤5.5	3.3dB/m (at20°C)
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