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Sample test report

SAMPLE FOR APPROVA

SUPPLIER	Shenzhen Keesun Technology Co.,Ltd		
RARTNAME	5.8G FPC Internal antenna 1.13 Black Cable +IPEX (forward) L=90MM (EM72)	CATEGORY	Built-in antenna
DESCRIPTION	KS053-10068-A	SAMPLE CODE	RD-21-005310
REVISION	X1	DATESUBMITTED	2023.12.01

Guest side (HF.RADIO Fill in)		Acceptor		
Customer confirmation	Approval	Quality	Engineering department	Business department
		Miaoyan Wu	Haibin Liao	Chenglan Liu
Date		Date		

Shenzhen Keesun Technology Co., Ltd.(Seal)			
Address:	4 / F, Building B, Hai Wei Jingsong Center Warehouse, Building 12, Heping Tong Rich Industrial Zone, Fuhai Street, Bao 'an District, Shenzhen		
Contact	Chenglan Liu	Website:	www.keesunantenna.com



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Product specification overview

●Electrical Performance:

1. Frequency Range:5.8Ghz
2. Impedance: 50 Ohms nominal
3. VSWR: ≤ 1.92
4. Gain: 2dBi
5. Admitted power radiation: 1W
6. Radiation of Radiation: Toroidal
7. Radiation: Omni
8. Polarization: Vertical
9. Connector Type:I-PEX

●Mechanical properties:

1. Cable: MI1.13mm Black Cable,50 Ohm
2. Operation temperature range: -20°C~ +70°C
3. Storage temperature range: -30°C~ +80°C
4. Color:

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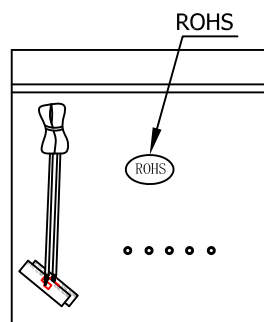
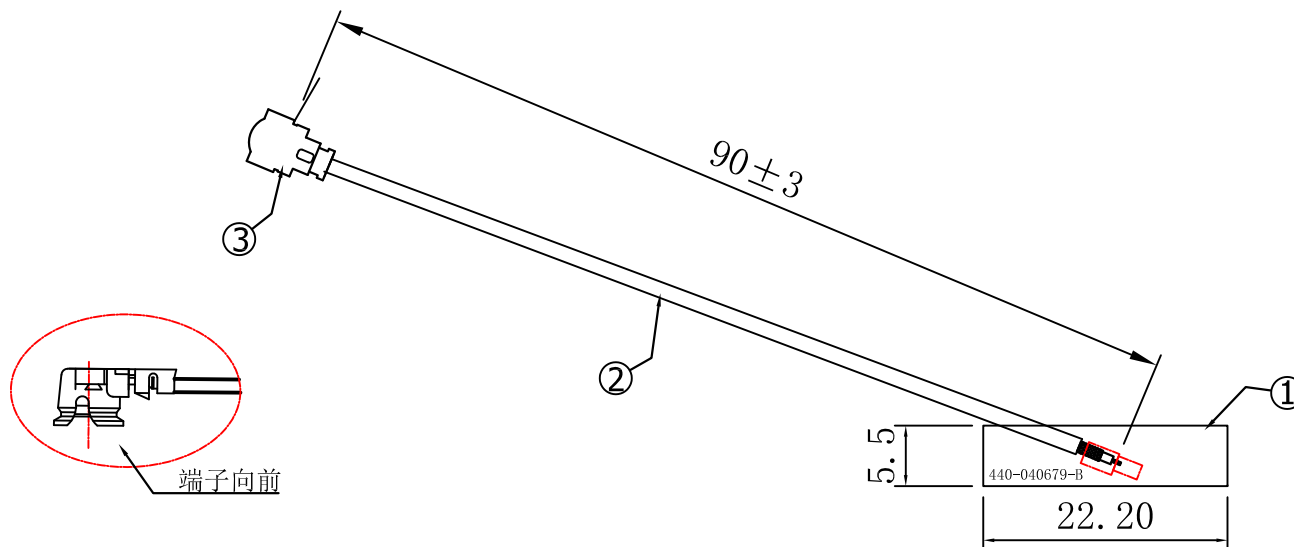
产品图片



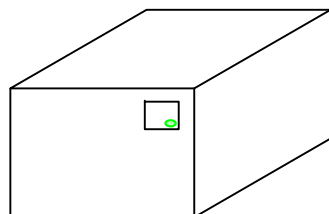
Drawing

REV.	DESCRIPTION	DATE
A	NEW	2025.03.14

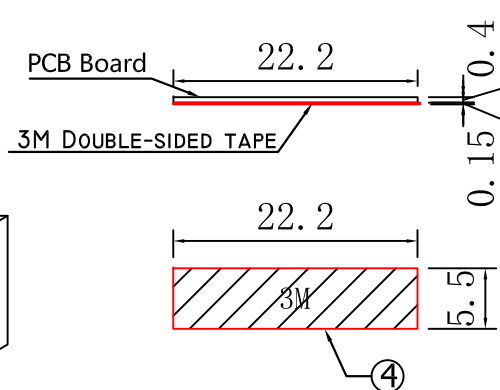
ROHS



Pack:50PCS/Bundle
500PCS/PE Bag





1.The outer box needs to be pasted
1PCS/RoHS label on the outer box label
2.The outer box requires 1PCS/outer box
label on the upper right corner of the outer
box side wheat



Specification:
Frequency Rang:5GHz
Return Loss:-10dB or less
VSWR:1.92 Max
Gain:2.0 dBi

NO.	DESCRIPTION	Q'TY	REMARK
4	Double glue	3M 9448A(L22.2*W5.6)	1
3	CONN	IPEX FOR ϕ 1.38mm CABLE	1
2	CABLE	ϕ 1.13mm CABLE (Black)	1
1	PCB	EM72 (L22.2*W5.6*T0.4mm)	1

TITLE:	Built-in antenna+IPEX L=90mm EM72	 Shenzhen Keesun Technology Co., Ltd	
P/N:	RD-21-005310		
CUSTOMER:	KS053	 APPROVED	
DRAW NO.:	KS053-10068-A		
DIMENSIONS TOLERANCES UNLESS OTHERWISE NOTED		CHECKED	
TOLERANCE	.XXX ±0.05	SHEET:1/1	SCALE:NONE
	.XX ±0.1		
	.X ±0.2		
	.X ±0.5		
UNIT: mm		REV.A	DRAWN
			Julia



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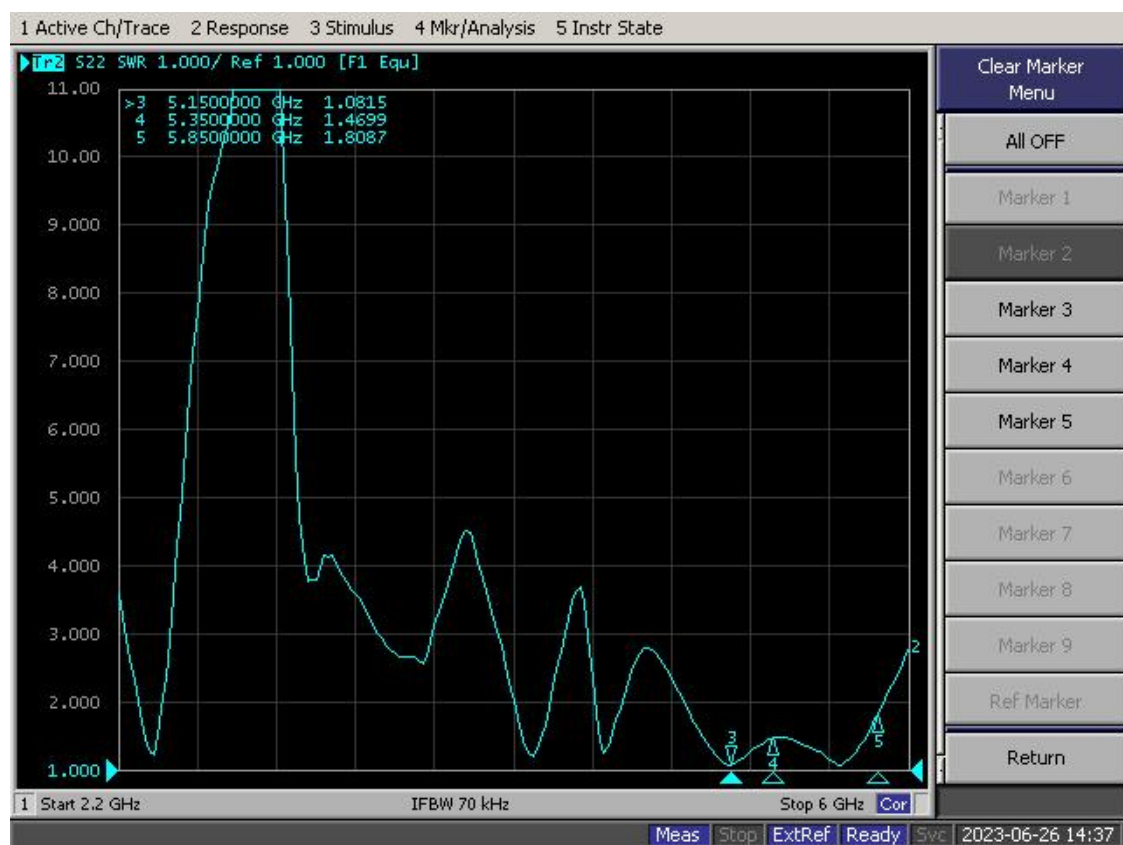
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Network analyzer test diagram

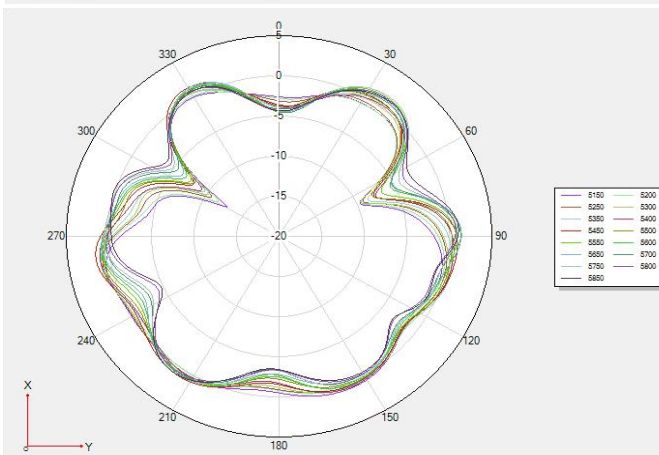
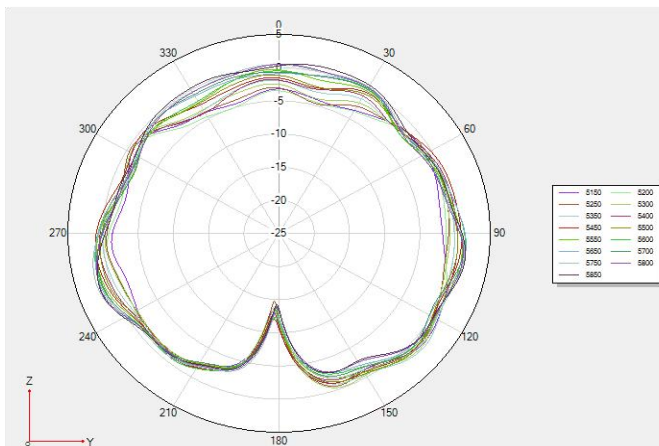
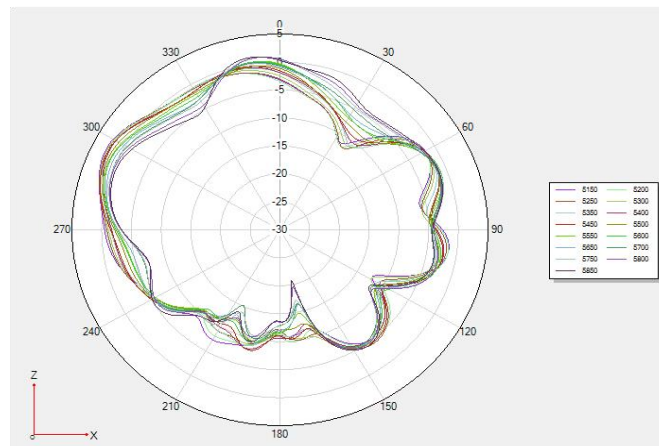
P/N:KS053-10068-A

SPECS: 5.8GHz FPC Built-in antenna

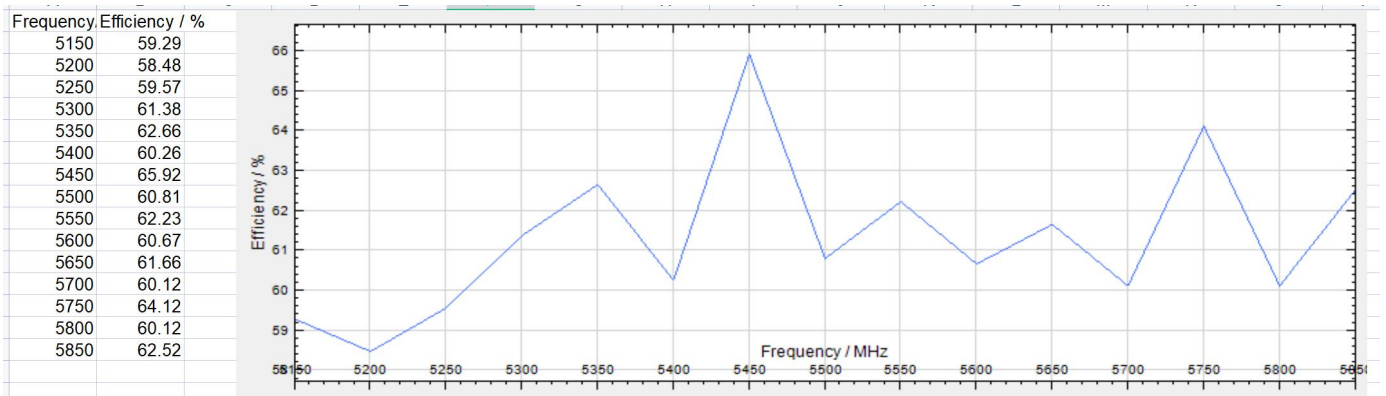
Test value:Return Loss/VSWR



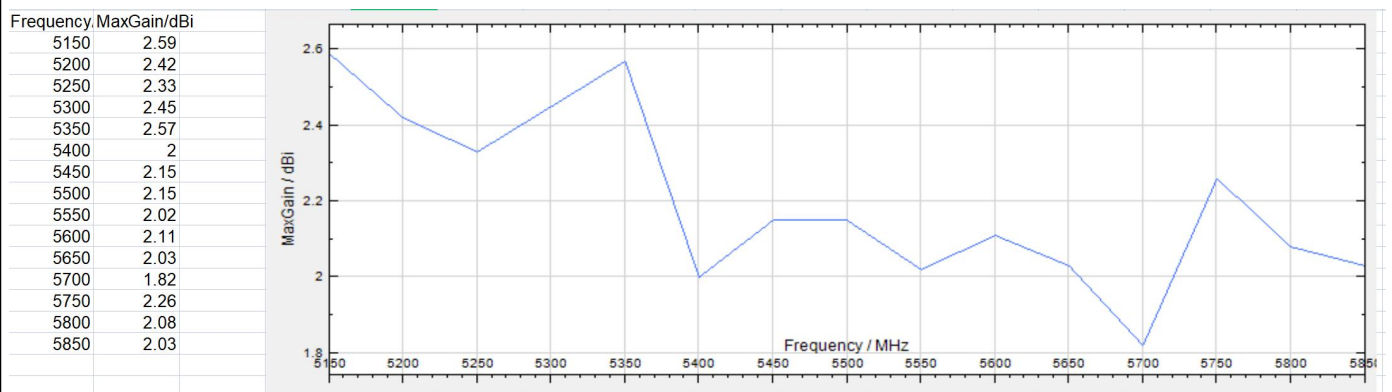
Antenna 2D Report-5.8GHz



Antenna Efficiency-5.8GHz



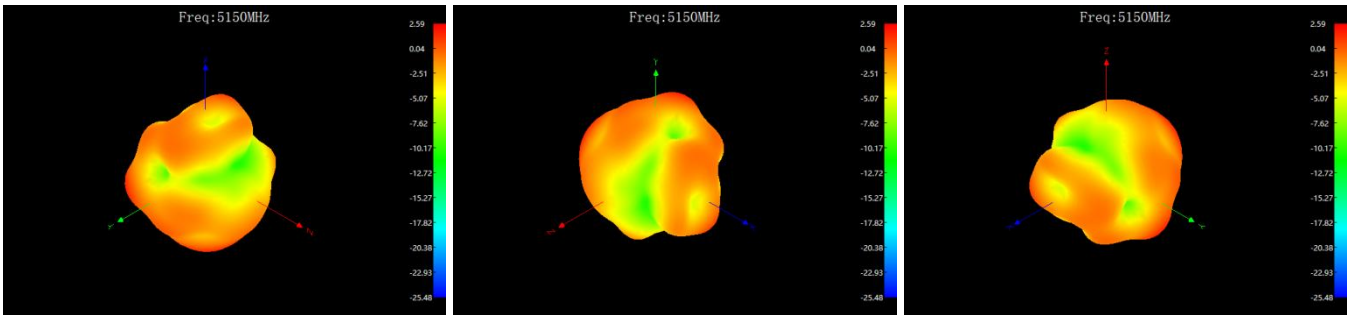
Peak Gain -5.8GHz



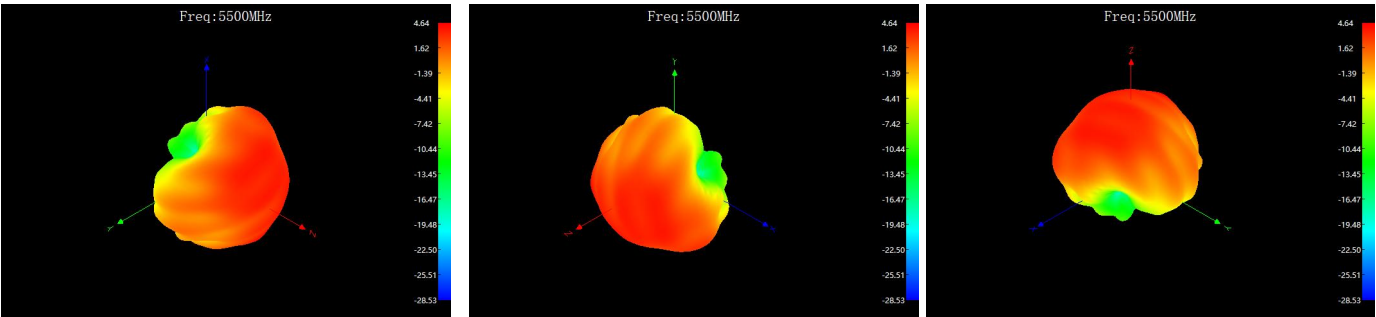
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Antenna 3D Report-5.8GHz

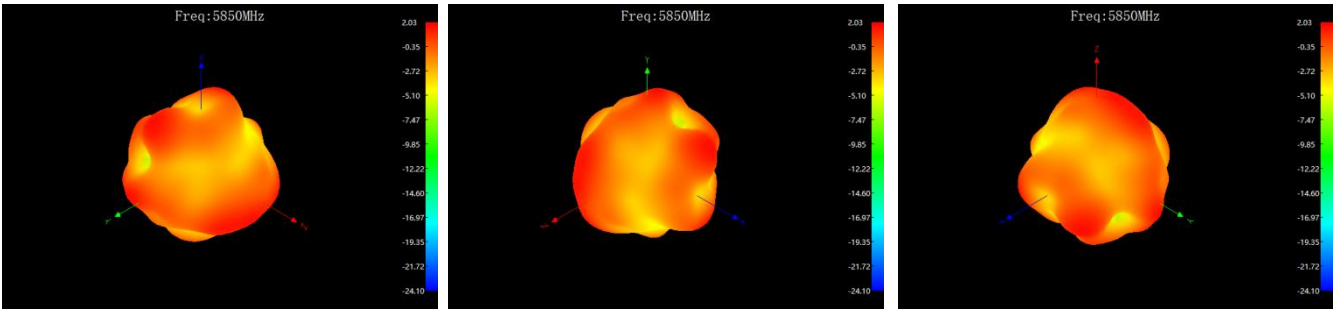
5.15G



5.55G



5.85G



一、 Technical specifications



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Operating frequency range

5.8GHz

S.W.R

 ≤ 1.92

Antenna gain

2dBi

Switching mode

I-PEX

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.
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)