

Shenzhen Keesun Technology Co., Ltd.

Product datesheet

Product P/N EX20042

Product Description: 2.4~2.5/5.15~5.95GHz

Dual band Monopole Stick Antenna Black/RF-SMA

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:		

Catalogue

[illegible]

Product Specification Overview

●Electrical Performance:

1. Frequency Range: 2.4~2.5/5150~5.95GHz
2. Impedance: 50 Ohms nominal
3. VSWR: ≤ 1.92
4. Gain:
5. Connector Type: RF-SMA
6. Polarization: linear

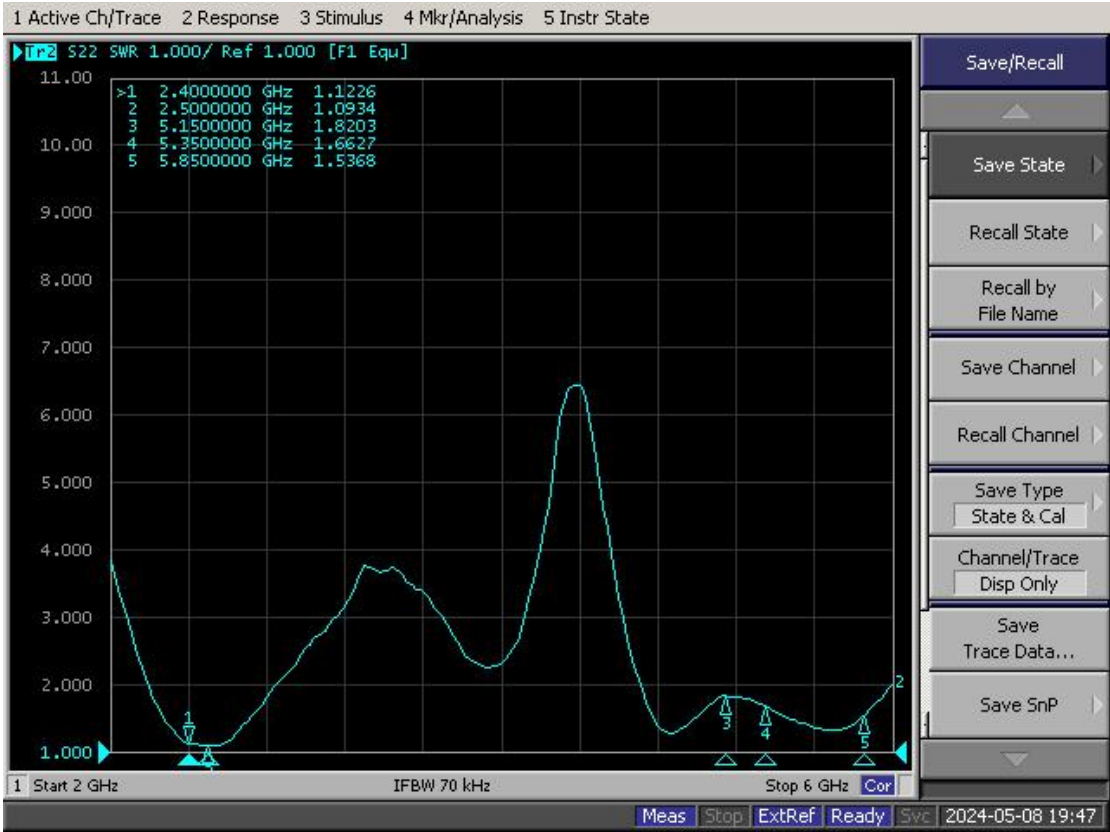
●Mechanical properties:

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

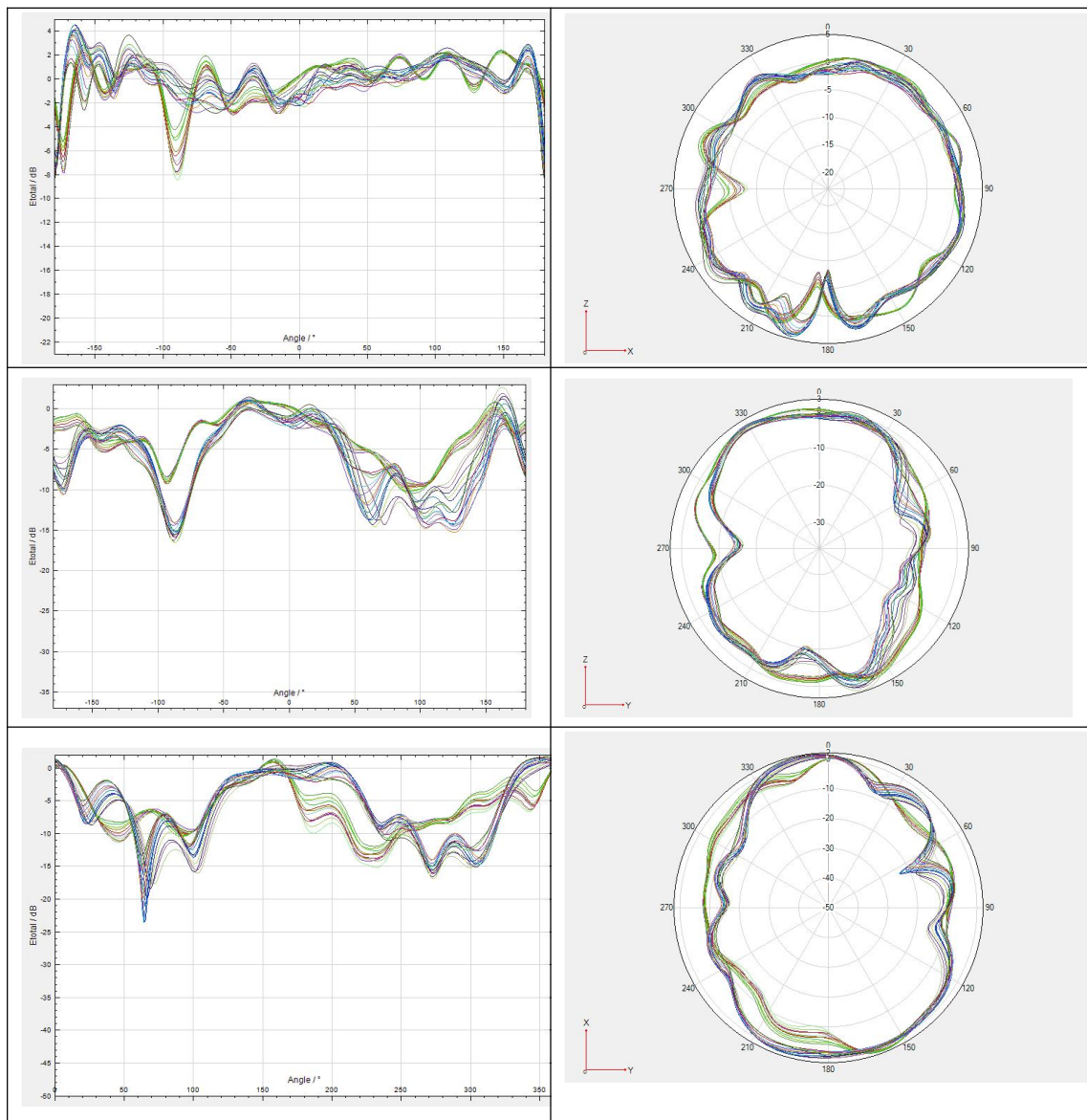
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Network analyzer test pattern

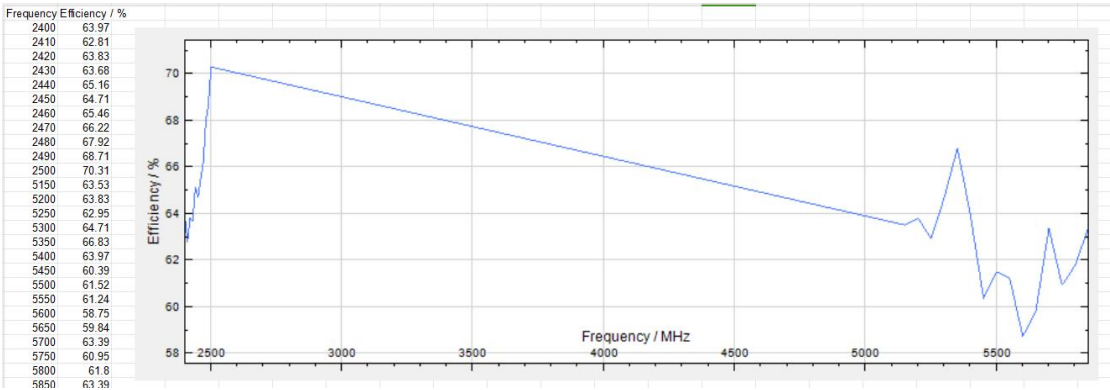
P / N(Part Number):EX20042
Title specification: 2.4~2.5GHz /5.15~5.95GHz Φ 13.0ANTENNA
Test value:Return Loss/VSWR



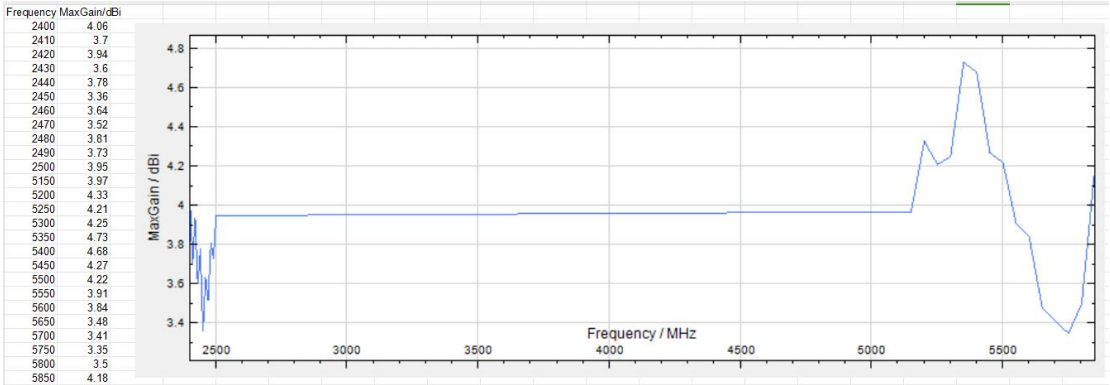
Antenna 2D Report-2.4~2.5GHz/5.15~5.95GHz



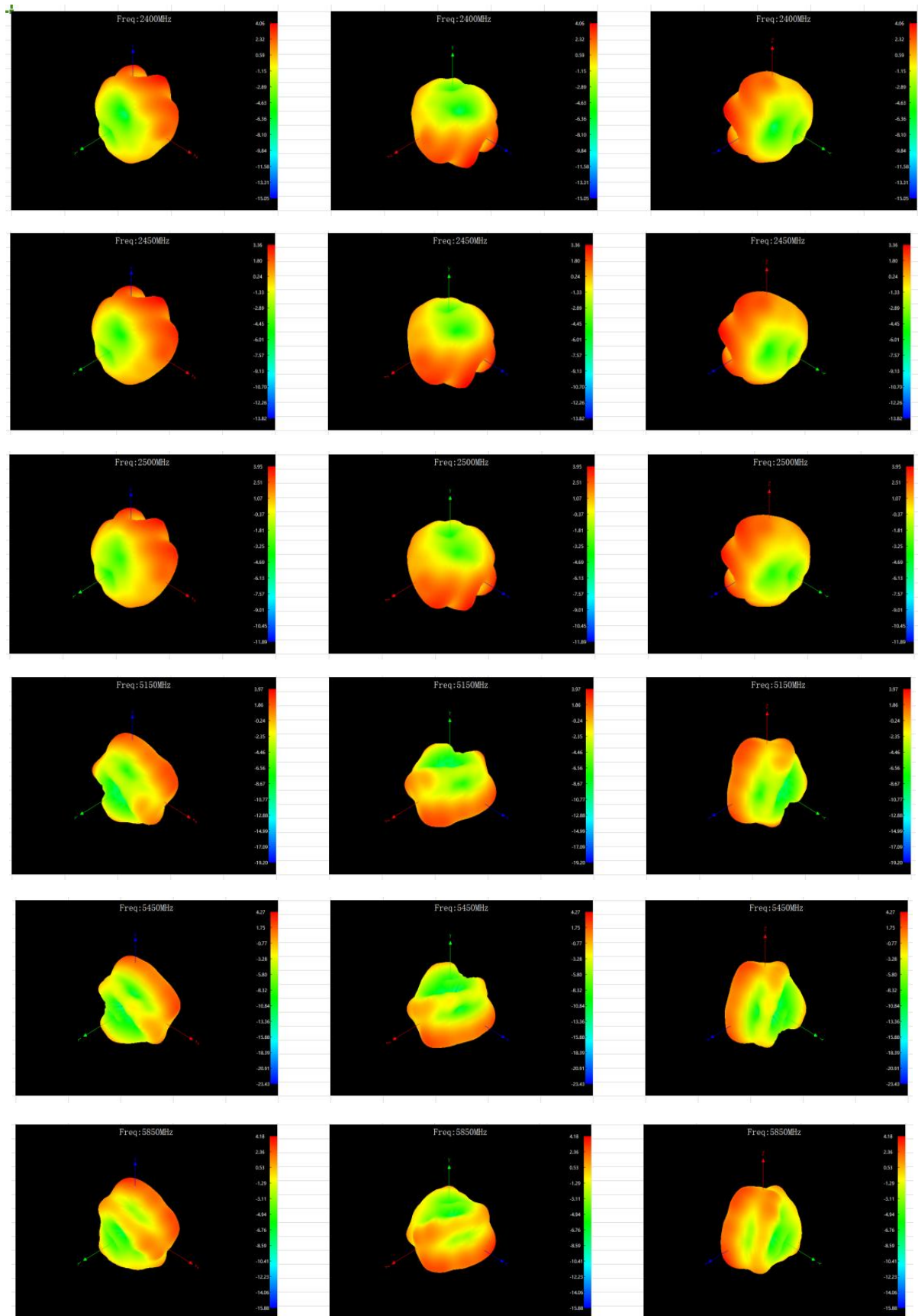
Antenna Efficiency-2.4~2.5GHz/5.15~5.95GHz



Peak Gain-2.4~2.5GHz/5.15~5.95GHz



Antenna 3D Report-2.4~2.5GHz/5.15~5.95GHz



Antenna standard parameters

一、Technical specifications		
Operating frequency range	2.4~2.5GHz /5.15~5.95GHz	
S.W.R	≤1.92	
Antenna gain	/	
Switching mode	RF-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)