



Shenzhen Shuodian Electronic Technology Co.,Ltd

Specification

for

板载 **2.4G** 天线

KEWT-INPCB-2.4G

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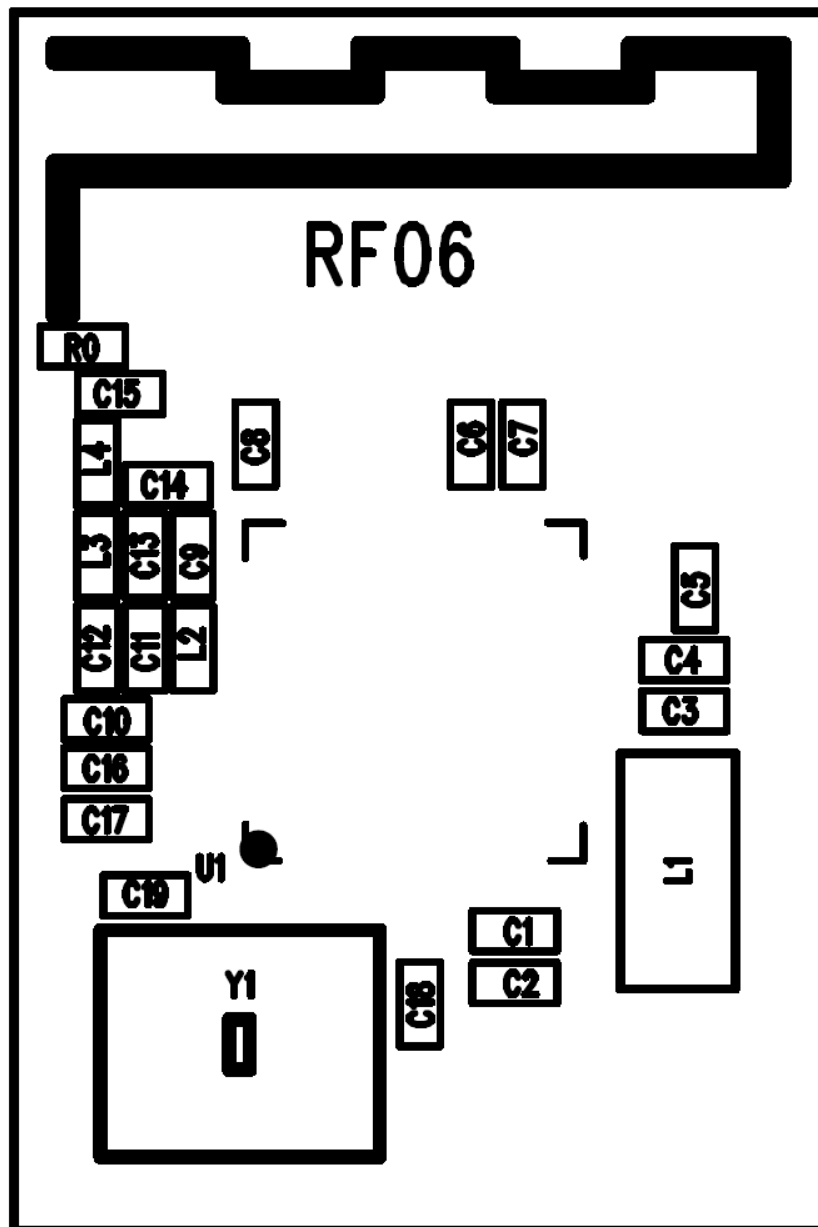
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1.Specifications

NO.	ITEMS	DETAILS
1	model	
2	Frequency band	2400-2500MHz
3	VSWR	≤ 2.0
4	Impedance	50 Ω
5	Antenna type	Monopole
6	Antenna implementation form	PCB
7	天线图片	



2.Drawing:





3.Product electricalperformance test data

3.1Testing environment and instrument equipment

testing environment: temperature:: 10℃——+30℃ humidity: ≤80% (+40℃) atmospheric pressure: 750mmkg±30mmkg	Test equipment: etwork analyzer Agilent E8358A ETS anechoic chamber
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3.2 Product electrical performance test data:

S11 picture:

Marker	2400MHz	2450MHz	2500MHz
Returnloss	-9.98	-15.58	-30.17
VSWR	1.93	1.39	1.06

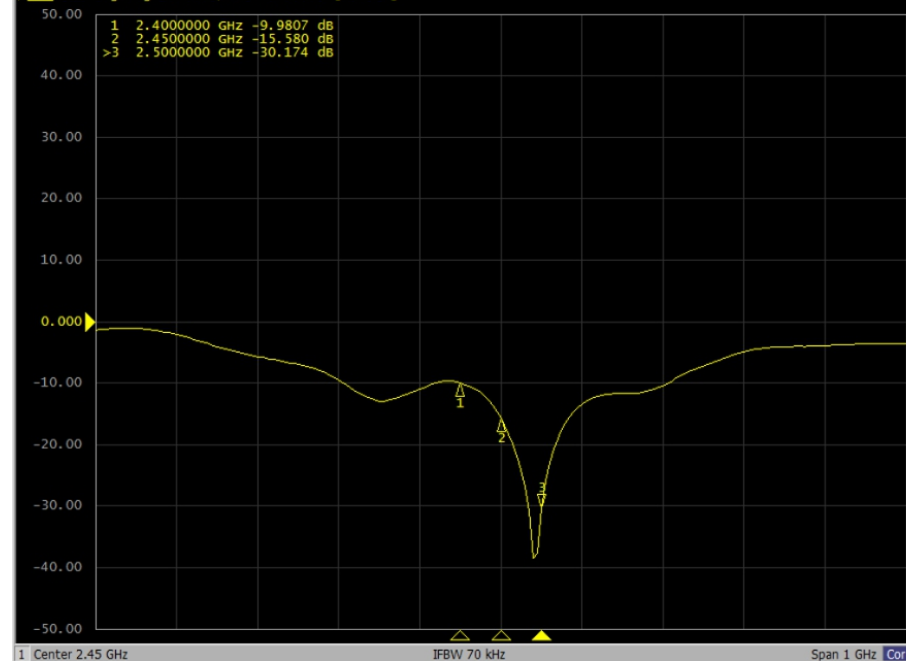


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E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

▶ Tr1 S11 Log Mag 10.00dB/ Ref 0.000dB [Ro Del]



Resize

Format

Log Mag

Log Mag

Phase

Group Delay

Smith

Polar

Lin Mag

SWR

Real

Imaginary

Expand Phase

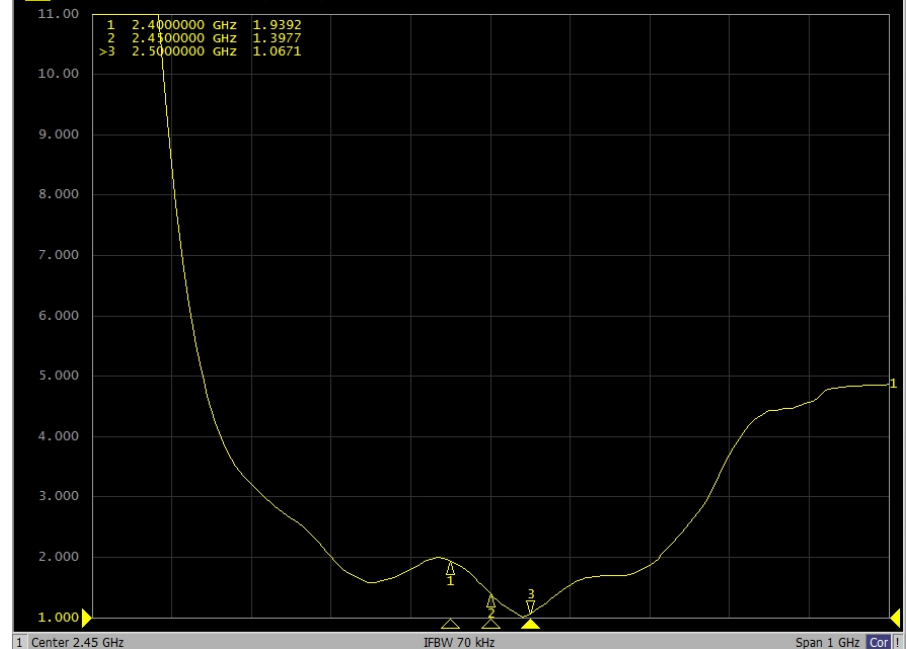
Positive Phase

Return

E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

▶ Tr1 S11 SWR 1.000/ Ref 1.000 [Ro Del]



Resize

Format

SWR

Log Mag

Phase

Group Delay

Smith

Polar

Lin Mag

SWR

Real

Imaginary

Expand Phase

Positive Phase

Return



3.3 Gain efficiency and directional pattern of antenna:

频率 (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain (dBi)	-1.90	-2.20	-2.64	-2.92	-3.06	-2.93	-2.08	-1.37	-1.37	-1.61	-2.17
Efficiency (%)	21.7	21.1	20.3	19.5	19.5	19.1	18.3	17.9	16.7	16.1	15.6

2450MHz Direction diagram:

