



Shenzhen Shuodian Electronic Technology Co.,Ltd

Specification

for

EFS106-W V2.0 2.4G Antenna

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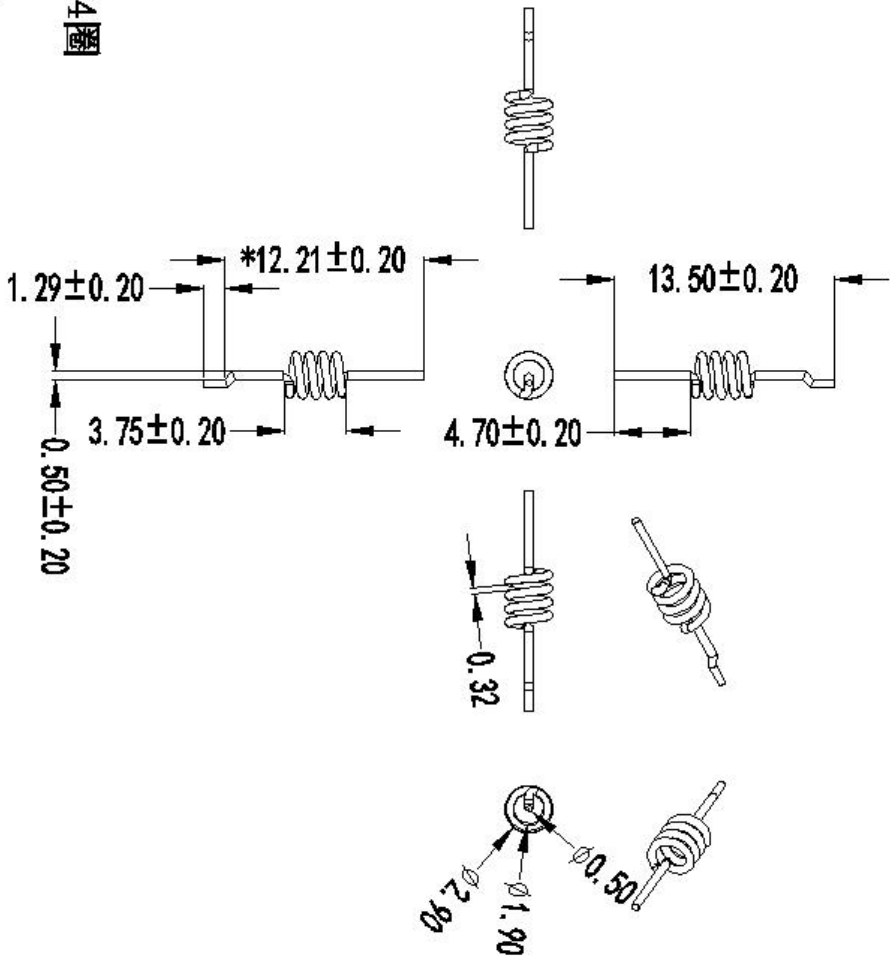
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1. Specifications

NO	ITEMS	DETAILS
1	model	EFS106-W V2.0
2	Frequency band	2400-2500MHz
3	VSWR	≤2.0
4	GAIN	2.97dBi
5	Impedance	50 Ω
6	Antenna type	unipolar
7	Antenna implementation form	spring

2. Drawing:

- 规格:
- 1. 材质 : 黄铜- $\varnothing 0.5\text{MM}$ 右旋4圈
 - 2. 符合ROHS标准
 - 3. 弹簧表面清洁光亮, 无污渍, 无披锋。
 - 4. 带*号为重要尺寸, 未标公差的按公差表执行。



深圳市铄点电子科技有限公司									
名称		零件编号		EFS106-W V2.0					
材料		比例		1:1					
单位		颜色		mm					
数量		设计		1					
一般加工		表面处理		LPL					
表面粗糙度		表面光泽		Ra					
审核		批准		第 1 页					
共 1 页									

3.Product electrical performance test data

3.1 Testing environment and instrument equipment

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

S11 picture:

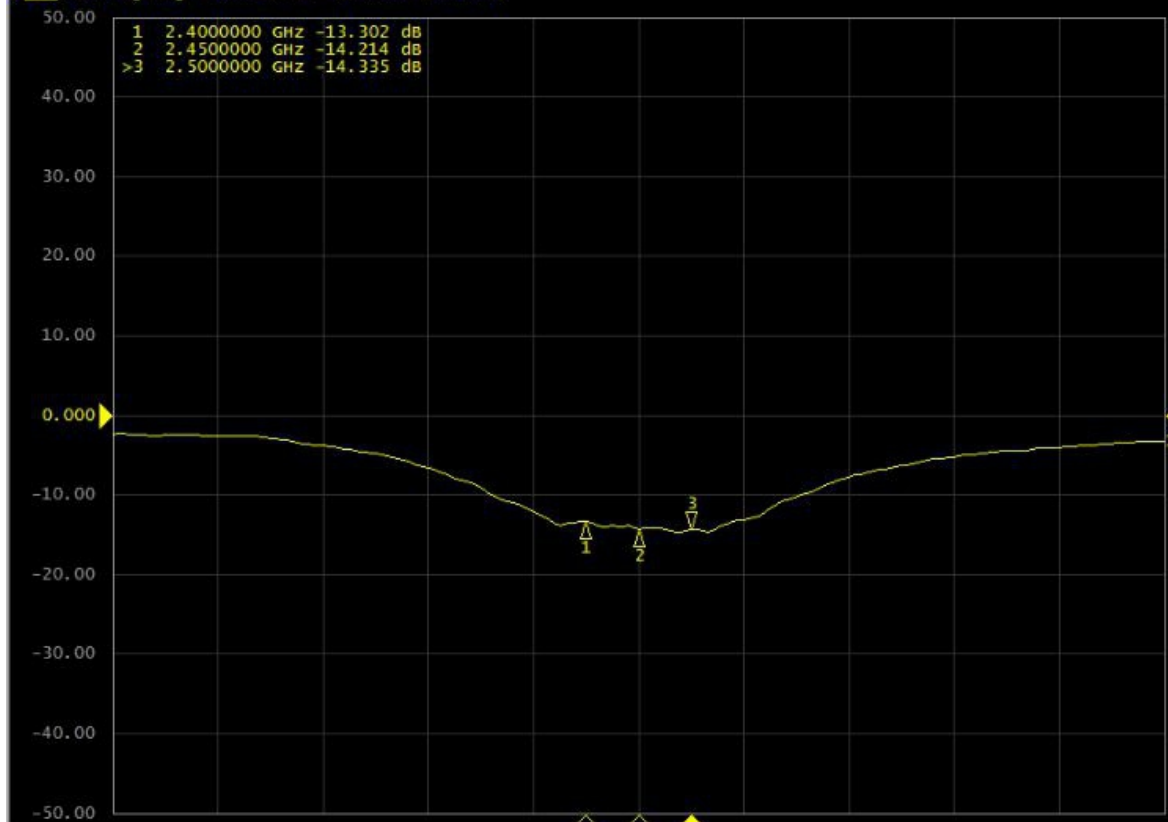
频率（MHz）	2400	2450	2500
ReturnLoss	-13.3	-14.2	-14.5
VSWR	1.55	1.49	1.49

E5071C Network Analyzer

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

Resize

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



1 Center 2.45 GHz

IFBW 70 kHz

Span 1 GHz

Format

Log Mag

Log Mag

Phase

Group Delay

Smith

Polar

Lin Mag

SWR

Real

Imaginary

Expand

Phase

Positive

Phase

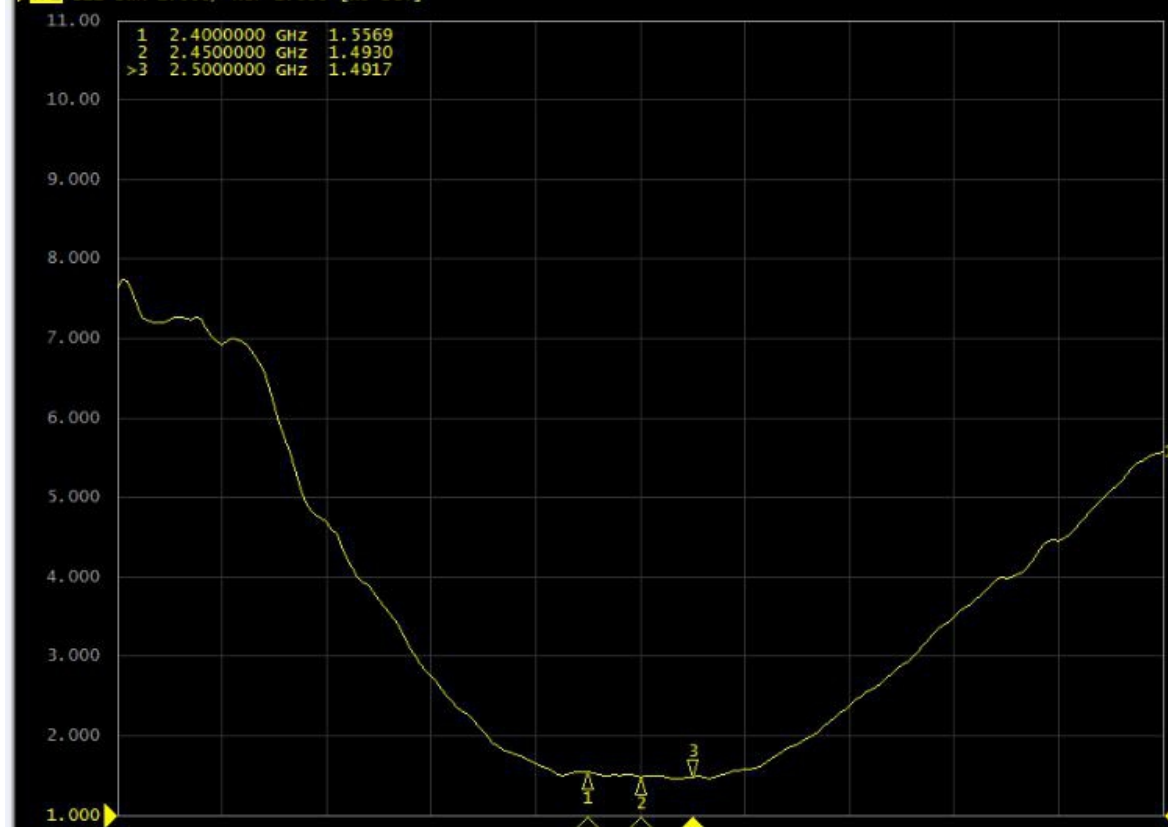
Return

E5071C Network Analyzer

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Resize

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



1 Center 2.45 GHz

IFBW 70 kHz

Span 1 GHz

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:

Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain (dBi)	2.93	2.91	2.81	2.83	2.91	2.97	2.92	2.74	2.43	2.35	2.5
Efficien (%)	59.2	59.4	58.7	59.1	59.2	60.4	60.8	61.0	60.5	60.6	61.7

2450MHz Direction diagram:

