



Kunshan Innowave Communication Technology Co.,Ltd.

Admission

Company Name: i. safe MOBILE GmbH

Product Name: IS540 antenna

Model: IS540 NFC antenna (L914)

Date: 2023. 2. 16

Address: i_Park Tauberfranken 10 97922 Lauda-Koenigshofen Germany

涉密图档

Version

Mark

Modify content

Sign

Date

V01

Mass production release

Lin Zhaowei

2023. 02. 20

①

★48.05±0.15

2-★4.05±0.15

★3.50±0.25

★1.50±0.15

★3.30±0.15

★3.60±0.10

★54.25±0.15

②

③

④

⑤

⑥

⑦

Ferrite

⑧

★0.27±0.03

(Double-sided region

No backing paper included)

PI T=0.2MM+AD 3M9471

disconnect

gilding

Front

Negative

gilding

FPC

Ferrite

Stack diagram

Skills requirement :

1.The front side represents the part of the FPC laying copper traces covering the ink or covering film,
The back represents the back collagen-packed adhesive tape part ;

2. “★” Size is key size , “CPK” Need to make CPK size ,
“() ” Is the actual size , “△X” For design changes ;
Refer to the tolerance table for tolerances not noted ;

3.The surface is clean, no dirt, no copper exposed, falling off and other defects ;

4.The white line□ is the largest shape of FPC , The orange wire is▨the antenna patter;
The blue line—is the release paper cutting line , The red line—is the antenna change mark ;
▨ Gilded area ,▨ Adhesive area ,□ Torn bit for release paper ;

5.Satisfy related reliability tests such as salt spray test/adhesion test , According to our internal
RX-WI-QAC-014 Implementation of reliability test standards ,
All materials are in line with our company
RX-WI-QAC-008 Product Environmental Substance Prohibition Management Standard
Products must meet WT-WI-D003 《Restriction Standards for Hazardous Substances 》 ;

6.Ziplock bag, foam box packing delivery (50pcs/100pcs per bag)
each bag affixed with the quantity label ;

7.The product packaging must be clean and tidy,
and the packaging process must not cause any contamination to the product .

Tolerance table

>200

± 0.20

ANGLES

100-200

± 0.18

50-100

± 0.15

± 1°

10-50

± 0.13

0-10

± 0.10

Model

IS540 (L914)

Design

Lin Zhaowei

Date

2023. 02. 20

Name

IS540-NFC

R F

Lin Huanjian

Date

2023. 02. 20

Part No

F05391403110005

Audit

Xie Yuqing

Date

2023. 02. 20

Version

V01

Frame

A4

Proportion

1:1

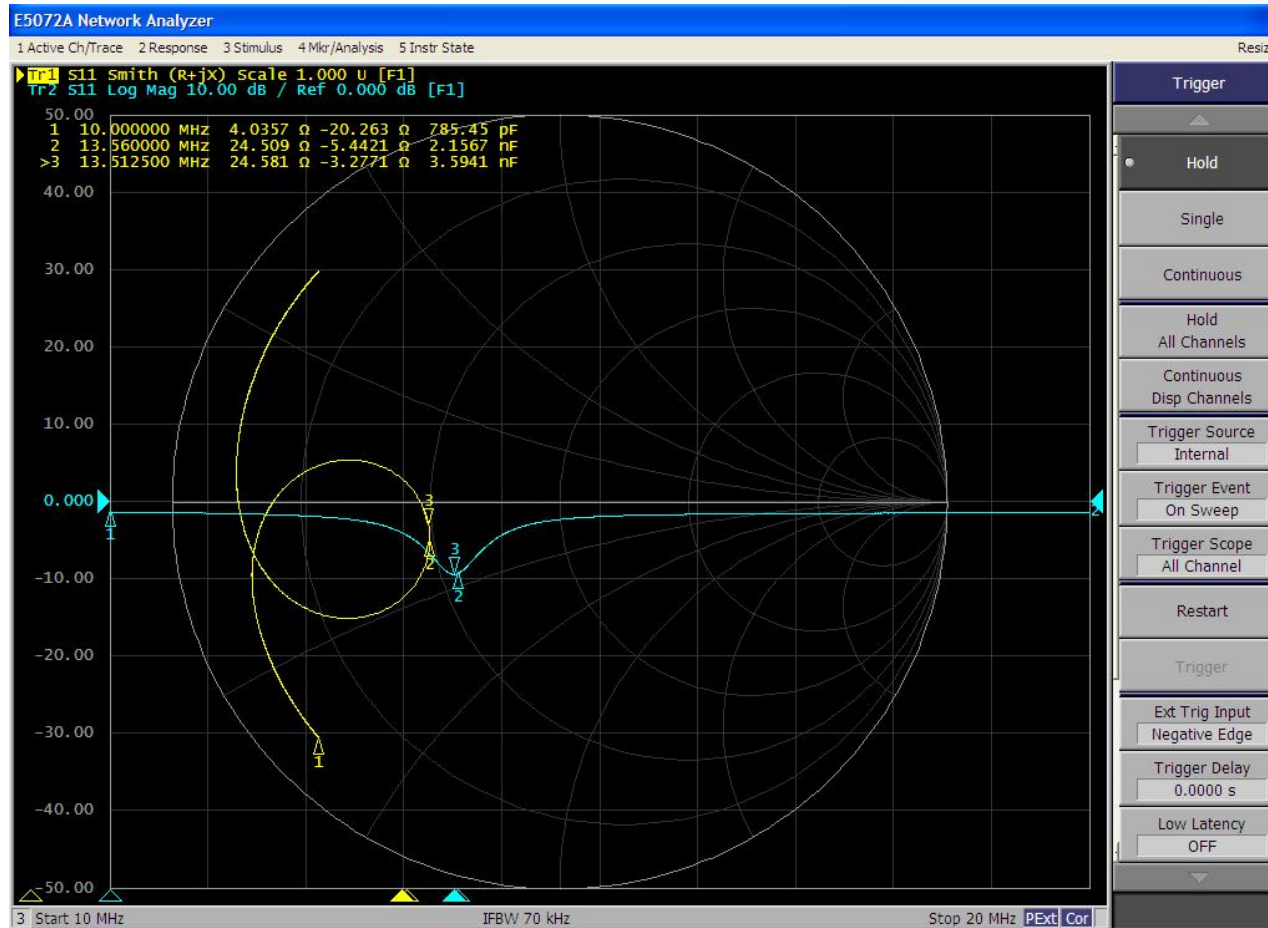
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Unit

MM

KunShan INNOWAVE Communication Technology Co.Ltd

Impedance debugging



$F_r/w=13.60\text{MHz};$

$Z@13.56=18\Omega;$

performance

acr	T6-DU	type1	type2	type3	type4	type5
83mm	64mm	46mm	48mm	45mm	25mm	45mm

matching debugging

Componet		original value	debug value
L0	L4801/L4803	160nH	160nH
C0	C4833/C4834	680pF	680pF
	C4830/C4835	120pF	NC
Cs	C4826/C4841	220pF	180pF
	C6970/C6974	220pF	180pF
	C6971/C6975	220pF	180pF
	C4831/C4836	NC	NC
	C6972/C6976	NC	NC
	C6973/C6977	NC	NC
Cp	C4828/C4837	120pF	68pF
	C4829/C4838	33pF	22pF
	R4810/R4811	560 Ω	560 Ω

