



**AFT tech Electronic Co., Ltd.
(Shenzhen)**

Antenna specification

Customer:Shenzhen xinruizhi industry co., ltd	Date:2025-04-17
Material model:B651	Material structure: FPC
Material code:P-CDF-02A-G-1-8A	Material color: black
Antenna structure: NFC antenna	Antenna material No.: NFC Antenna: P-CDF-02A-G-1-8A

Change record column

Change date	Change reason	Content of Change	Version
2025/4/17	New version released		V1.0

Quality	MD	RF	Approved by

Customer confirmation column

Quality	MD	Electronics	Approved by

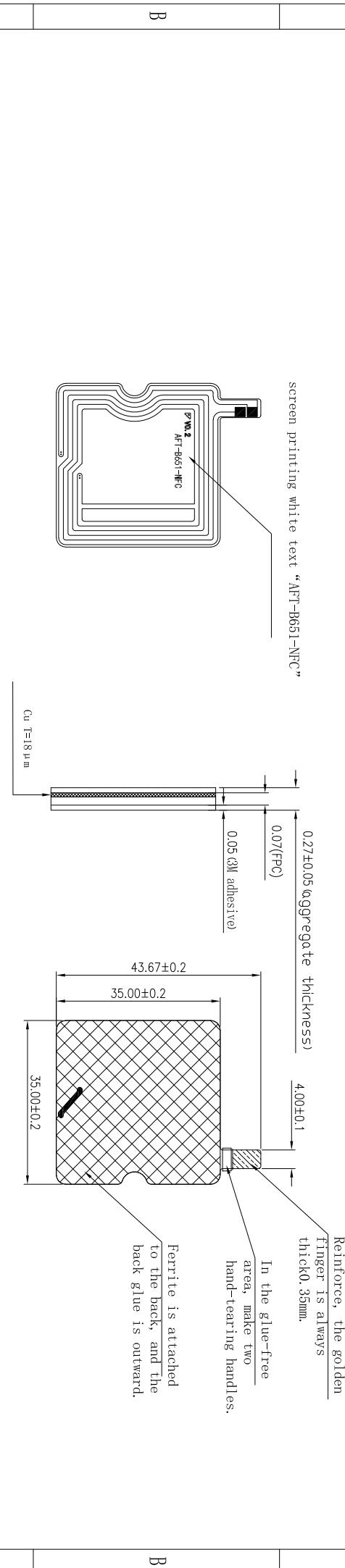
Customer material No. :

1 _____
2 _____
3 _____

Customer requirements: :

Catalogue

1. Cover
2. Catalogue
3. Product Chart
4. RF Test Data Report



Product Line Black

The back of the product

1
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1. The back glue is made of 3M 460, with a viscosity exceeding 200MP. The back glue shape is consistent with the substrate and covered on the back of the substrate. The back cut is half-cut;
2. One-sided version of the material, half-and-half base material, with good flexibility;
3. ■ The gold plating area , □ The copper foil area;
4. The coated product is bent by 180° without cracks and with good flexibility;
5. The golden finger surface plats gold 1~3μ without oxidation. The copper foil connections have no cracks or conduction after 180° bending; ;

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D

- 2. One-sided version of the material, half-and-half base material, with good flexibility;
- 3. ■ The gold plating area , □ The copper foil area.
- 4. The coated product is bent by 180° without cracks and with good flexibility;
- 5. The golden finger surface plats gold 1~3μ without oxidation. The copper foil connections have no cracks or conduction after 180° bending ;
- 6. Precise tolerance range of wiring and hole: +0.03mm. The tolerance of external dimensions falls within 0.2mm;
- 7. The items making "*" are key sizes. The unmarked sizes are measured at 1:1 according to CAD electronic profile.
- 8. The specific content and position of surface printing refer to the figure;



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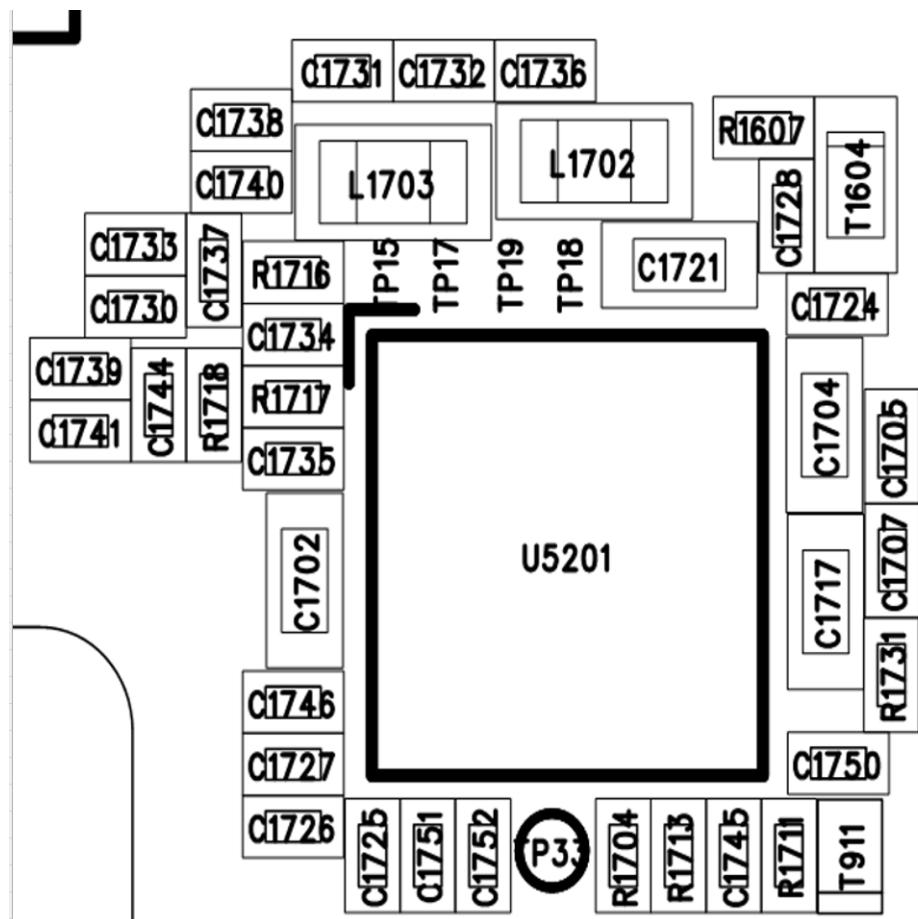
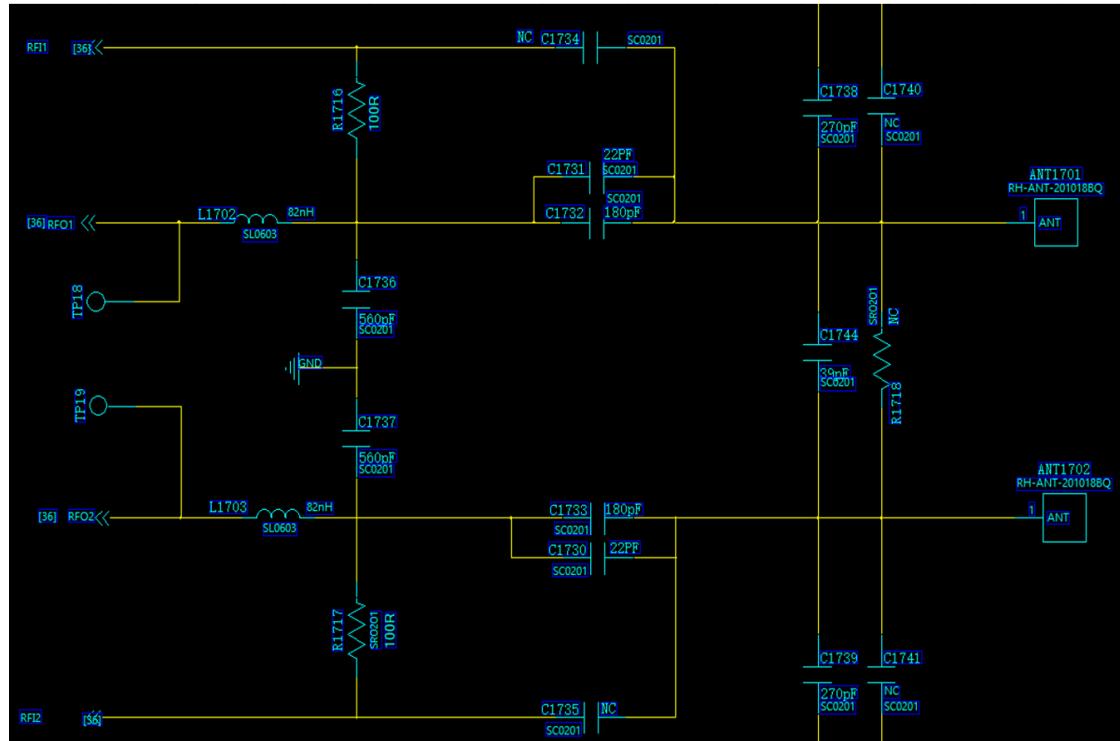
EM 1
EM 2
EM 3
EM 4
EM 5
EM 6
EM 7
EM 8
EM 9
EM 10

5

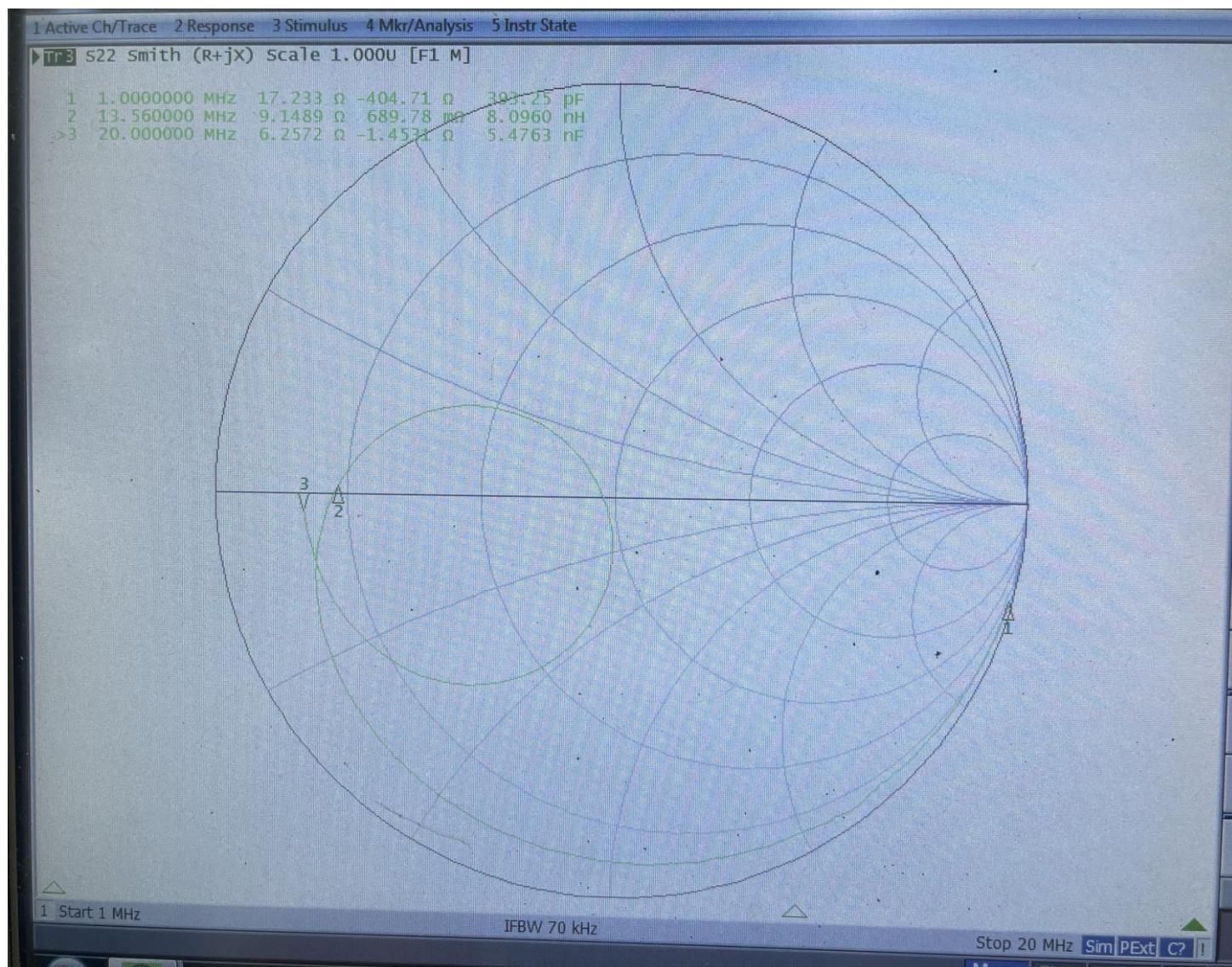
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AFT tech Electronic Co., Ltd. (Shenzhen)									
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D 5. The golden finger surface plating gold 1~3μ without oxidation. The copper foil connections have no cracks or conduction after 180° bending; 6. Precise tolerance range of wiring and hole: $\pm 0.03\text{mm}$. The tolerance of external dimensions falls within 0. 2mm; 7. The items making "*" are key sizes. The unmarked sizes are measured at 1:1 according to CAD electronic profile. 8. The specific content and position of surface printing refer to the figure;									
1	2	3	4	5	6	7	8		
No.	Date	Modify content	Version	Remarks	请勿实测图纸 位置	Appearance treatment	Limit	mm	Proportion
							1:1		Version REV.A

NFC schematic diagram and tag diagram



Standing wave diagram



The matching changes are as follows

位号	值	备注
L1702/L1703	82NH	过流能力不低于 350MA50V±2%
C1736/C1737	560PF	
R1716/R1717	100R	
C1734/C1735	NC	
C1731/C1730	NC	
C1732/C1733	180PF	
C1738/C1739	150PF	
C1744	39PF	
C1740/C1741	NC	
R1718	NC	

Measured distance

卡类型	读卡距离 (MM)
TYPE 1 Tag NFC ANEF (ISO14443)	40mm
TYPE 2 Tag NTAG-215 (M)	20mm
TYPE 2 Tag Mif one (ISO14443 /M)	25mm
TYPE 3 Tag Felica Rc-S966	25mm
TYPE 4 Tag NFC-A (TA32) (ISO14443)	20mm
TYPE 4 Tag NFC-B (TB32) (ISO14443)	15mm
TYPE 5 Tag NFC-V (ISO15693)	15mm
MF1 (M)	35mm
浦发银行卡 (A)	30mm
身份证 (B)	15mm
深圳通 (A)	25mm