

Approval Sheet

Customer	Wanchuang
Customer Project No.	RK3326S-NFC
Deman Project No.	F2068
Deman Part No.	TFPA02F20680011

	RF	ID	PE	QE	PM
Deman					

	ID	RD	QE	PM
Customer				

Date : 2024.12.16

Shanghai Demen Electronic Technology Co., LTD
Shenzhen Haide door Electronics Co., LTD

1.Specification

1.1 General Standard

	Date	2025.3.7	Version No	V1.0
	Subject	Wanchuang Antenna Acknowledgment		

General Specification	
Model name	P720F11
Antenna type	NFC

1.2 Packing, Shipping, Handling

1.2.1 Exterior Option

1. The names of the customers and manufacturers should be indicated.

1.2.2 Packing

1. The products should be carefully packed, in order to avoid collision and vibration in transit.
2. The Packing material should be a paper box, and this type of carton cannot damage the products in the box.

2. Antenna drawing

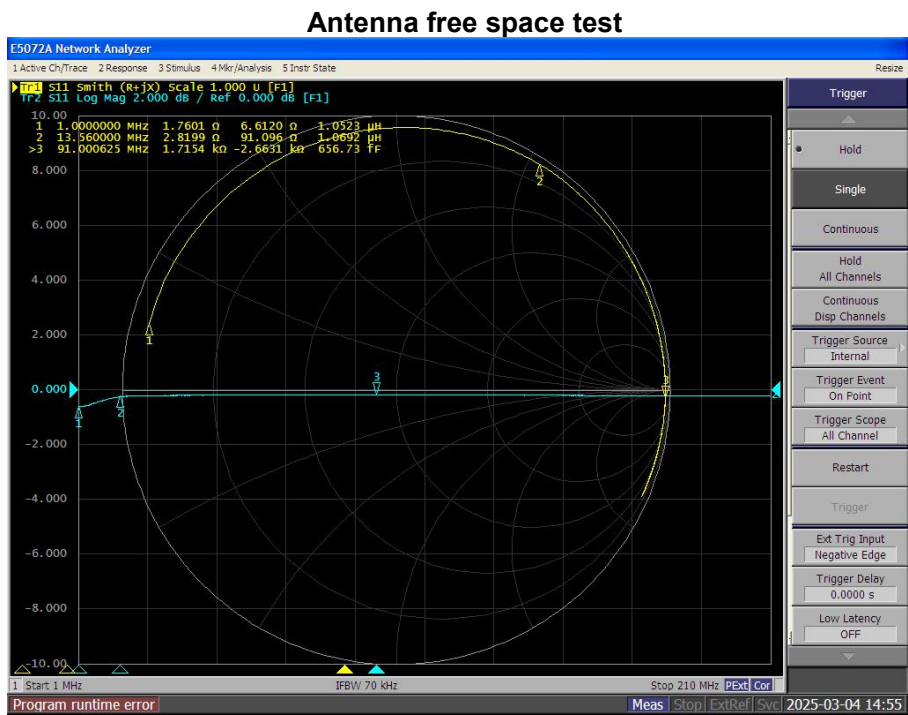
Deman			File type: tabulation						
Form number		Form name							
F-042-005-20		Full scale inspection report							
Product model		F2068						Product lot number	
Test date		2025/3/6				Test sampling number		5	
Test equipment		projector				tester		Xuehua Kang	
Serial number	Standard size	Plus tolerance	Negative tolerance	Measured value				determine	
1	8.51	0.15	0.15	8.52	8.46	8.56	8.51	8.49	OK
2	35.85	0.15	0.15	35.82	35.83	35.77	35.85	35.79	OK
3	35	2	2	36.00	35.97	36.32	36.22	36.06	OK
4	0.25	0.03	0.03	2.22	2.23	2.22	2.23	2.22	OK
5	1.5	0.5	0.5	1.12	1.02	1.07	1.18	1.09	OK

4、Electrical specification requirements

	Date	2025.3.7	Version No	V1.0
	Subject	Wanchuang Antenna Acknowledgment		

Specifications	Test conditions	wanchuang RK33 specification				
		Min	Typ	Max	Units	Notes
IC Chip	—	—	NXP	—	—	PN7160
Reader frequency	—	—	13.56	—	MHz	—
Antenna La (standalone)	1 MHz	1.01	1.05	1.08	μH	± 3%
Antenna La (with mechanics)	1 MHz	0.65	0.68	0.70	μH	± 3%
Antenna Fra	—	86	91	96	MHz	—
Antenna Rs	1 MHz	1.6	1.8	2.0	Ω	±0.2
Antenna Rp	Fra	1.5	1.7	1.9	KΩ	—
Ferrite permeability μ'	13.56 MHz	135	150	160	—	>120
Ferrite permeability μ''	13.56 MHz	—	—	5	—	<=5

1.Parameter test screenshot



Read and write mode distance test data and scene photos



R/W mode distance vs.Tag 2/4	Tag 2 (Ultralight)	38 mm
	Tag 4 (DESfire)	15 mm

Note: The above card reading distance is the reading distance of debugging machine, and the test production and mass production machine reading distance shall be subject to the actual situation.