

Data Sheet

CUSTOMER: RSK series

MODEL NAME: AFP00-000305

ANTENNA TYPE: NFC LOOP ANTENNA

CUSTOMER P/N: 21U700101-101

AWAN P/N: AFP00-000305

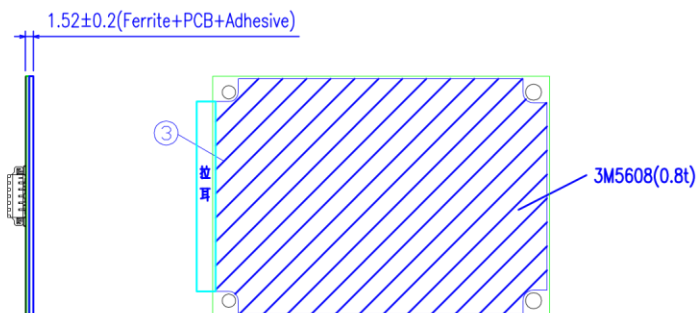




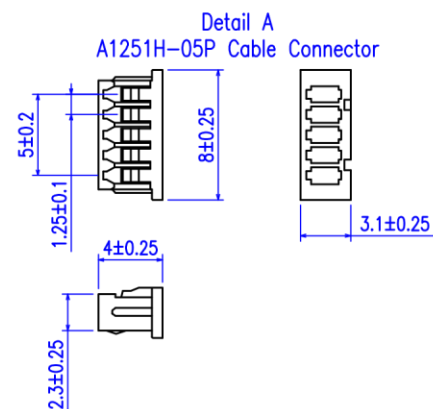
1. NFC Antenna-----	1
2. Revision History-----	1
3. Mechanical Specifications-----	2
4. Test Equipment-----	3
5. Test Environment-----	3
6. Matching Design-----	4
7. Reader Distance-----	4

8

Rev.	EC#	Description	Drawn/Date	Checked/Date	Approved/Date
X1		New Release	Jerry 06/24/24'	Jason 06/24/24'	Jason 06/24/24'



The diagram shows a rectangular sheet labeled "Family Sheet" with a pink diamond-patterned background. The sheet is framed by a green border. On the left side, there is a connector with multiple pins. On the right side, there is a vertical strip with a blue and white pattern. The sheet is shown being inserted into a slot on the left side of a larger device.



4	RSK series NFC_Cable	1		Cable+Connector
3	RSK series NFC_Ferrite sheet+3M5608	1		Tape
2	RSK series NFC_Ferrite sheet	1		Ferrite
1	RSK series NFC_PCB(SMT)	1		PCB
Item	Name	Q'ty	Part #	Material / Finish
Tolerances Unless Otherwise Specified General: X .±1.00 .X ±0.50 .XX ±0.25 .XXX ±0.10 Angles: X .±3.0° .X .±2.0° .XX ±1.0°		Drawn Jerry 06/24/24 Design Jerry 06/24/24 Checked Jason 06/24/24 Approved Jason 06/24/24 Unit mm 	 AWAN ADVANCED WIRELESS & ANTENNA INC. RSK series NFC_ANT_HF Size A3 Dep. No. C-ALL6Y-01-00 Series Rev. X1	Title Size Rev.
3D File		Customer Drawing		

符合AWAN環境管理物質技術標準
All materials meet the AWAN's spec. Environment - related substances management technical standard.

4. Test Equipment:

Procedure	Equipment Name & Photo
Antenna Tuning	 Network Analyzer : KEYSIGHT
Reader Distance	 Acrylic  Test Card

5. Test Environment:

Top View :



Bot View :

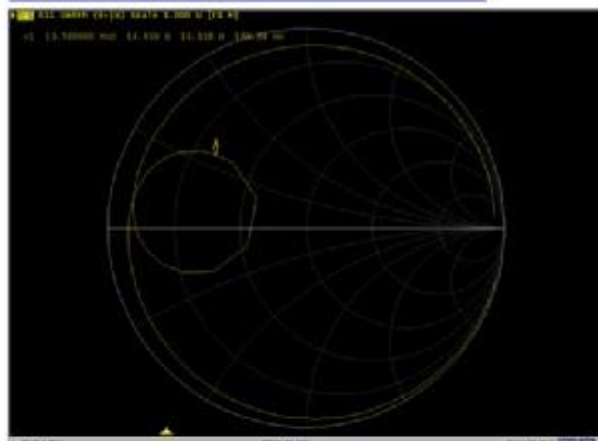


Side View :

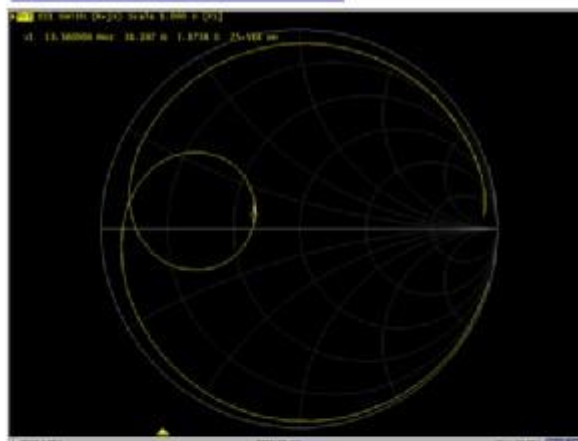


6. Matching Design:

Antenna Matching & Smith Chart :

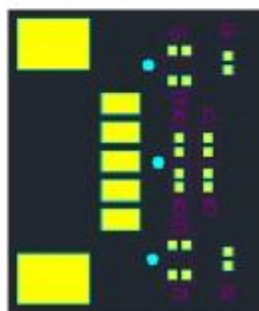


Test Board Smith Chart :



Impedance Matching	
C2 、 C3	39 pF
C5 、 C6	120 pF
C7 、 C8	27 pF
R1 、 R2	0 ohm

- CAPACITY and RESISTANCE's level:
- NPO/C0G Dielectric 2%



www.awan-ant.com 5

7.Reader Distance:

Test Environment Define:



NFC Size (mm)	NFC tags/Test conditions	Distance (mm)			
		Z=0mm 0°/90°	Z=5mm 0°/90°	Z=10mm 0°/90°	MAX 0°/90°
63x45	USB Test Card	PASS/PASS	PASS/PASS	PASS/PASS	40/40
Test Board	USB Test Card	PASS/PASS	PASS/PASS	PASS/PASS	35/20

Revision

Revision	Date	Change Notification	Notes
Rev.0	2024-8-9	--	WSFA240276-KS