

SPECIFICATION

APPLICATION FOR APPROVAL

CUSTOMER : CipherLAB Co., Ltd
CS P/N : KZHR1FC350011
PART NAME : Venus NFC ANT
DEVE NO. : T-0272_ Venus _NFC
AUDEN NO. : B11890-41

CUSTOMER APPROVED

高銘

邵振嘉 2022.10/4

Auden Techno Corp.

RF	MECHANICAL	R&D	PRODUCT
ENGINEER	ENGINEER	MANAGER	MANAGER
CHECKED	CHECKED	CHECKED	CHECKED
MC Yang	Tony Chen	Franky Lai	Tony Lee



No Perfect Status, Always Seek for Better

Auden Techno Corp.

NO.19, LANE 772 HO-PING ROAD, PA-TE DIST, TAO-YUAN CITY, TAIWAN

(TEL) : 886-3-3631901

(FAX) : 886-3-3660619

<http://www.auden.com.tw> **CONFIDENTIAL** [E-mail:service@auden.com.tw](mailto:service@auden.com.tw)

This Document contains confidential and proprietary information, cannot discourse to third party without the prior written authorization of Auden.



CONTENTS

1 圖檔

2 FAI&CPK

3 RF TEST REPORT



T-0272 NFC 天线 总装CPK Report

Part Number(料号)	B11890-41			Vendor(供应商)	耀登
Description(零件名称)	天线			Inspected(确认者)	孙赞赞
Tool Number(模号)	T-0272 NFC天线总装			Inches/MM(英寸/毫米)	mm
Cavity(穴号)				Material Name(材质名称)	
				Material Code(材质牌号)	
Revision(版本)	A			Date(日期)	2022/8/4
Designator(尺寸序号)	1A	2A	3A		
Nominal(公称尺寸)	22.10	28.00	44.10		
+ Tolerance(正公差)	0.30	0.30	0.30		
- Tolerance(负公差)	-0.30	-0.30	-0.30		
Upper Limit(规格上限)	22.40	28.30	44.40		
Lower Limit(规格下限)	21.80	27.70	43.80		
1	22.13	27.88	44.11		
2	22.19	27.99	44.15		
3	22.09	28.04	44.12		
4	22.14	28.10	44.13		
5	22.08	27.99	44.11		
6	22.14	28.01	44.12		
7	22.08	27.96	44.13		
8	21.98	28.03	44.14		
9	22.10	27.99	44.09		
10	22.12	27.88	44.13		
11	22.18	27.99	44.11		
12	22.09	28.04	44.12		
13	22.12	28.06	44.15		
14	22.05	27.98	44.06		
15	22.16	28.04	44.12		
16	22.08	27.96	44.10		
17	22.11	28.02	44.14		
18	22.05	28.00	44.12		
19	22.15	28.05	44.06		
20	22.21	27.96	44.13		
21	22.08	28.04	44.13		
22	22.10	28.12	44.12		
23	22.09	28.00	44.12		
24	22.05	28.05	44.14		
25	21.95	27.96	44.08		
26	22.14	27.98	44.11		
27	22.11	27.88	44.13		
28	22.16	28.05	44.05		
29	22.07	28.04	44.06		
30	22.16	28.08	44.07		
31	22.10	27.95	44.15		
32	22.12	28.01	44.06		
MAX.	22.21	28.12	44.15		
MIN.	21.95	27.88	44.05		
AVERAGE	22.11	28.00	44.11		
STDEV	0.06	0.06	0.03		
CP	1.81	1.73	3.38		
Cpk	1.78	1.71	3.25		
TOOLING(测量工具)	2.5D	2.5D	2.5D		

审核: 麦建国

制表: : 孙赞赞

RF TEST REPORT

1.ELECTRICAL SPECIFICATIONS

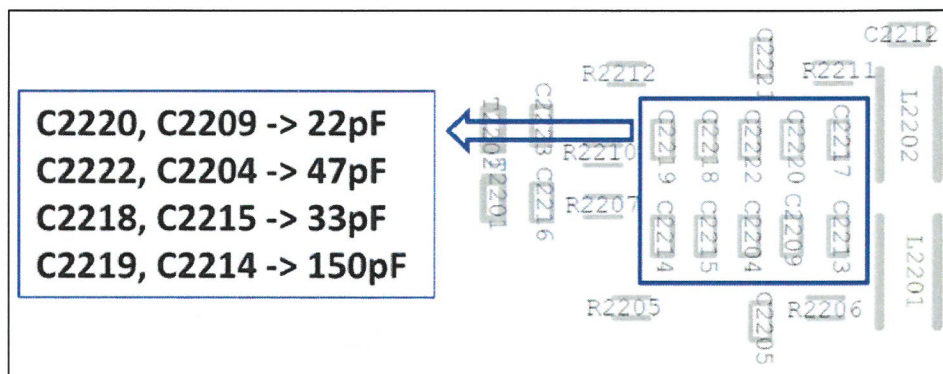
1-1 FREQUENCY BAND

Freq. Band	Frequency
NFC	13.56 MHZ

1-2 IMPEDANCE

Nominal Impedance (including matching circuit) : **50 ohms**

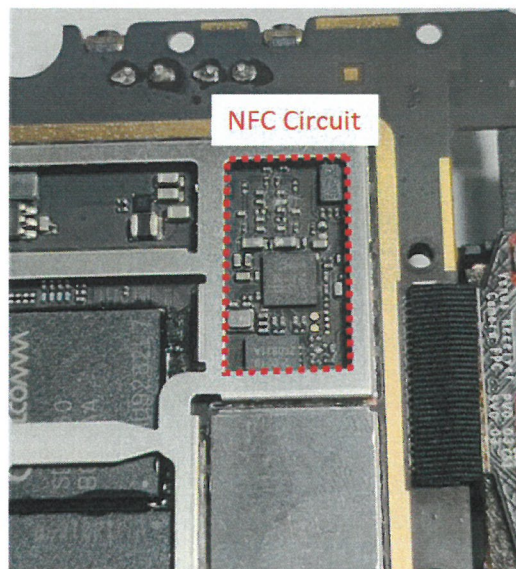
1-3 MATCHING REQUIREMENTS

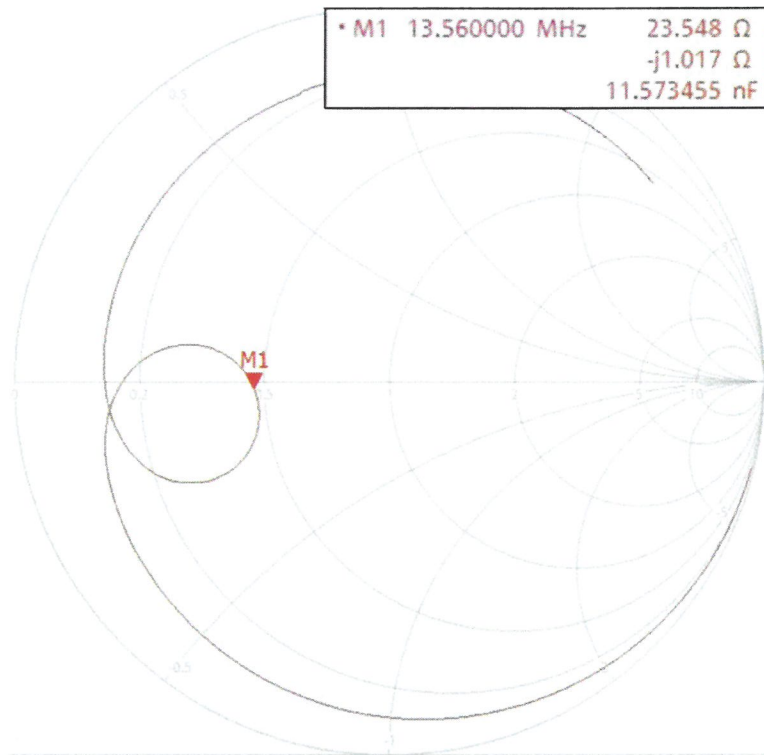


1-4 SMITH CHART

1-4-1 Antenna Smith Chart Plot.

Test with DVT2 unit:

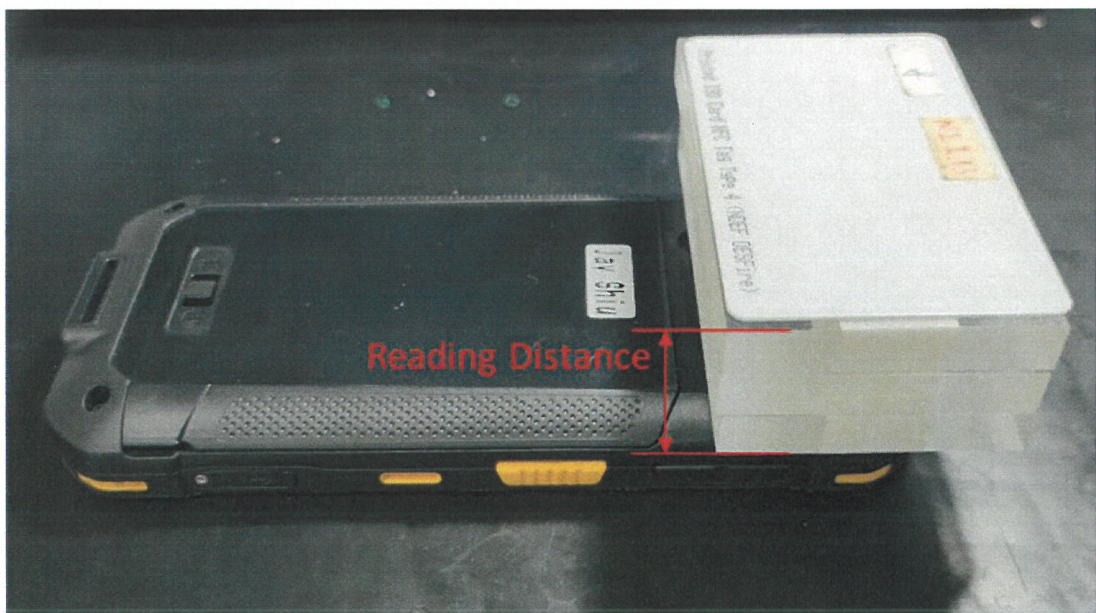




- ※ Measuring a 50 Ω test jig is connected to a network analyzer to measure the S_{11} .
- ※ All test value is done in customer approval fixture.

1-5 NFC Antenna Performance

1-5-1 NFC Antenna Test Setup





No Perfect Status, Always Seek for Better

SPECIFICATION FOR NFC Antenna

Auden P/N :

DEVE NO.: NFC Antenna

Application Date: Sep. 09, 2020

Rev: 0
Page

1-5-2 NFC Antenna Reading Distance

Vunes NFC Performance		
Reading Distance, mm	Date	20200703
	Rmatch, ohms	23
	L0, nH	160
	C0, pF	680
	C1, pF	47, 22
	C2, pF	150, 33
	Rrx, ohms	1K
	NFC Tag Type 1 (NDEF Topaz)	37
	NFC Tag Type 2 (NDEF NTAG 203)	38
	NFC Tag Type 3 (NDEF FeliCa)	42
	NFC Tag Type 4 (NDEF DESFire)	36