

TDE台德 部品承认书

PART FOR APPROVAL

File No: JX-RD-04-036

Ver: 1.0

No:

原厂名称（品牌名称）Vendor Name: Shenzhen HamyWe Technology Co., Ltd.

原厂型号 Vendor Part P/N: X2938-WBT1032B-ANT4

原厂规格描述 Part Description: FPC L=225MM

供应商确认签章Supplier: Shenzhen HamyWe Technology Co., Ltd.

台德适用机型 Model: WBT1032B

台德 ERP 料号 Part No:E110002922

台德部品名称 Part Name: FPC Antenna

台德规格描述 Part Description:

X2938-WBT1032B-ANT4 , FPC (X2115-WBT1032-ANT4-V1.0)

L=225MM, ROHS2.0+REACH

备注 Remarks:_____

RD/研发中心	QA/品质中心	APPROVED/批准



天线承认书

Parts Approval Sheet

Customer	台德	Project	WBT1032B
Band	ANT4	Color	BLACK
PN	X2938	Version	V1
Customer material number	THE CORD LENGTH WAS UPDATED FROM 180MM TO 255MM		

DATE: 2024/08/02

R&D			QC
Issued by	Checked by	Confirmed by	Checked by
伍海沅	项念	项念	蔡枝
Customer Confirm			

Environmental requirements: ☒ ROHS

☐ REACH

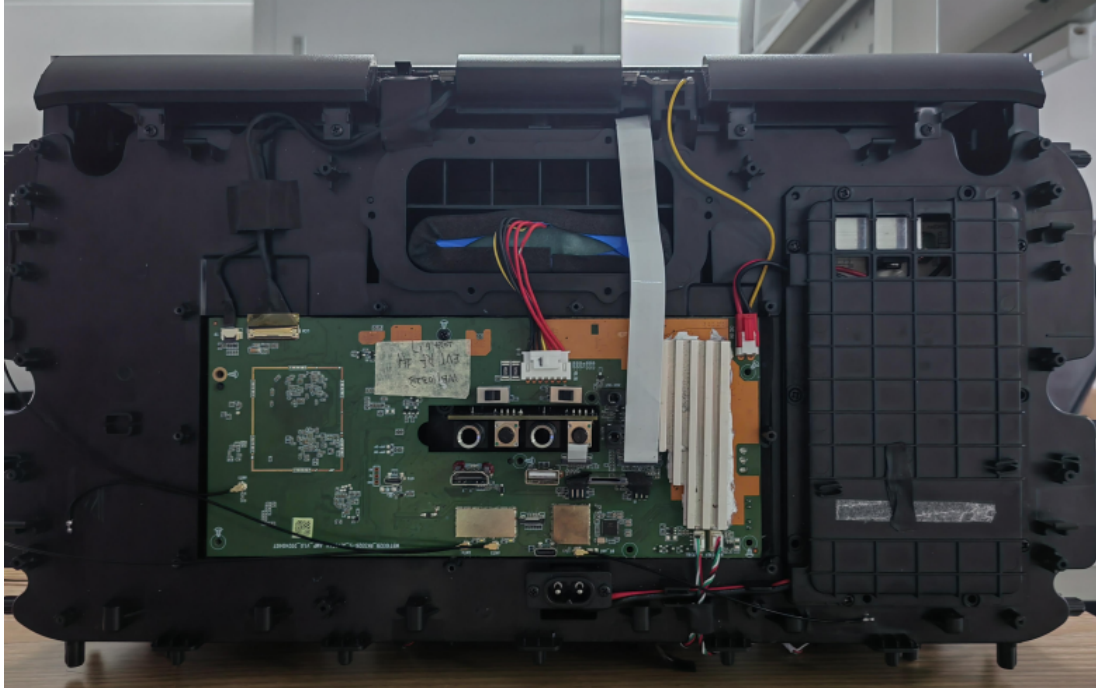
☐ 无

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1.Summary

This report summarizes the electrical results of the our antenna to support the project WBT1032B. The test fixture is made for further testing, which is show below:



2.General Description

2.1Antenna Components/Part revisions

The antenna part number is T: A

2.2Definitions

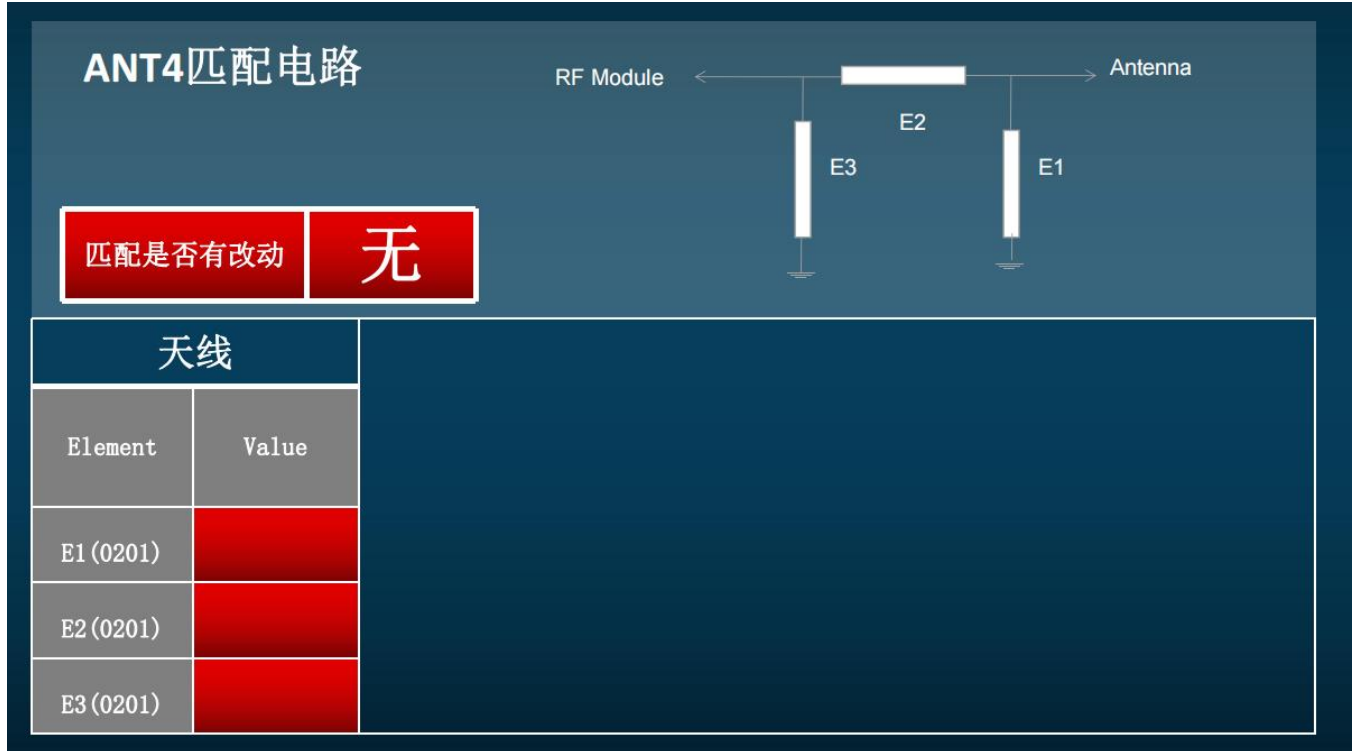
VSWR: Voltage Standing Wave Rate

TRP: total radiated power

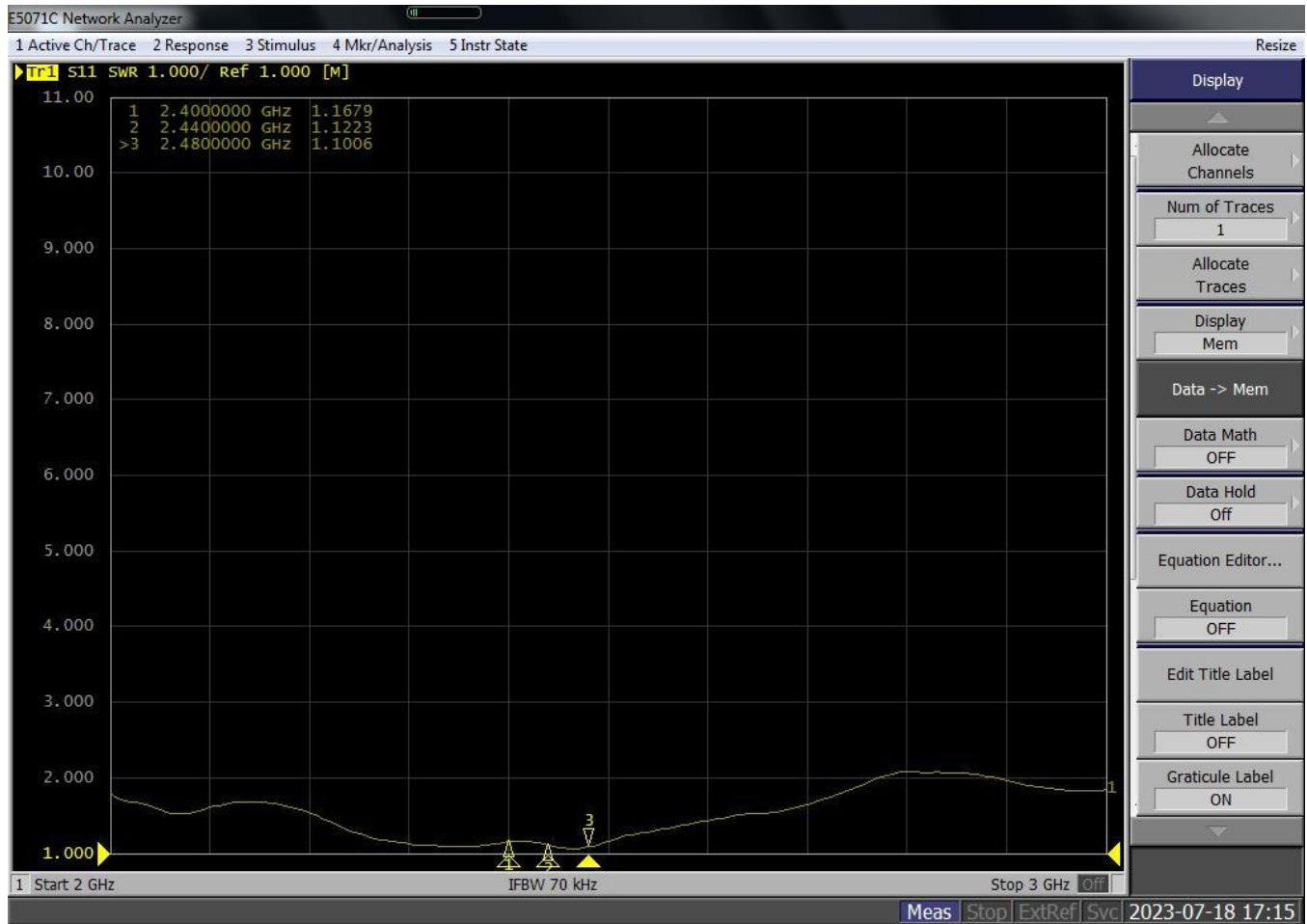
TIS: total isotropic sensitivity

3. Electrical Performance

3.1 Matching Circuit Description



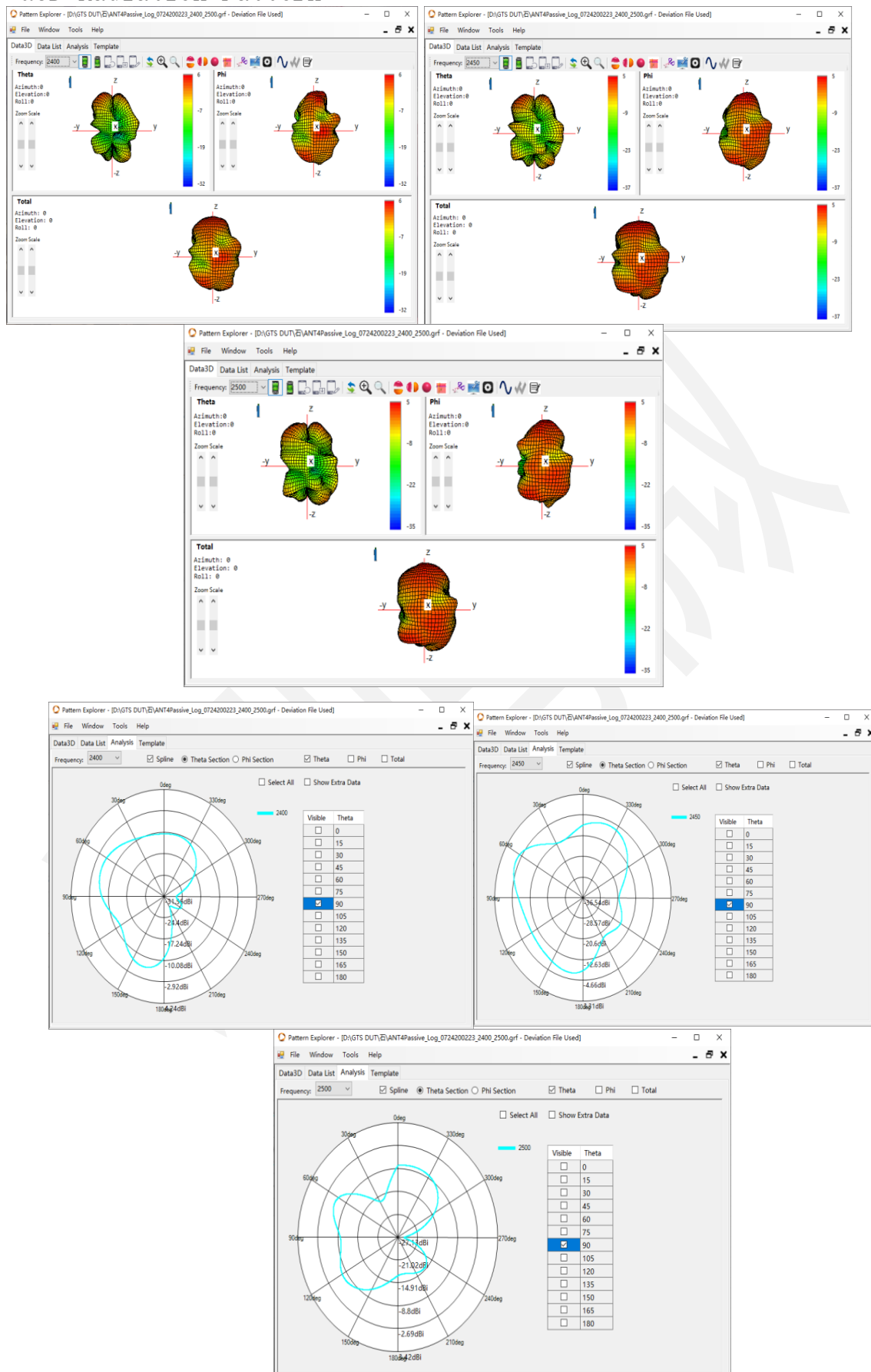
3.2 VSWR(Test in free space)



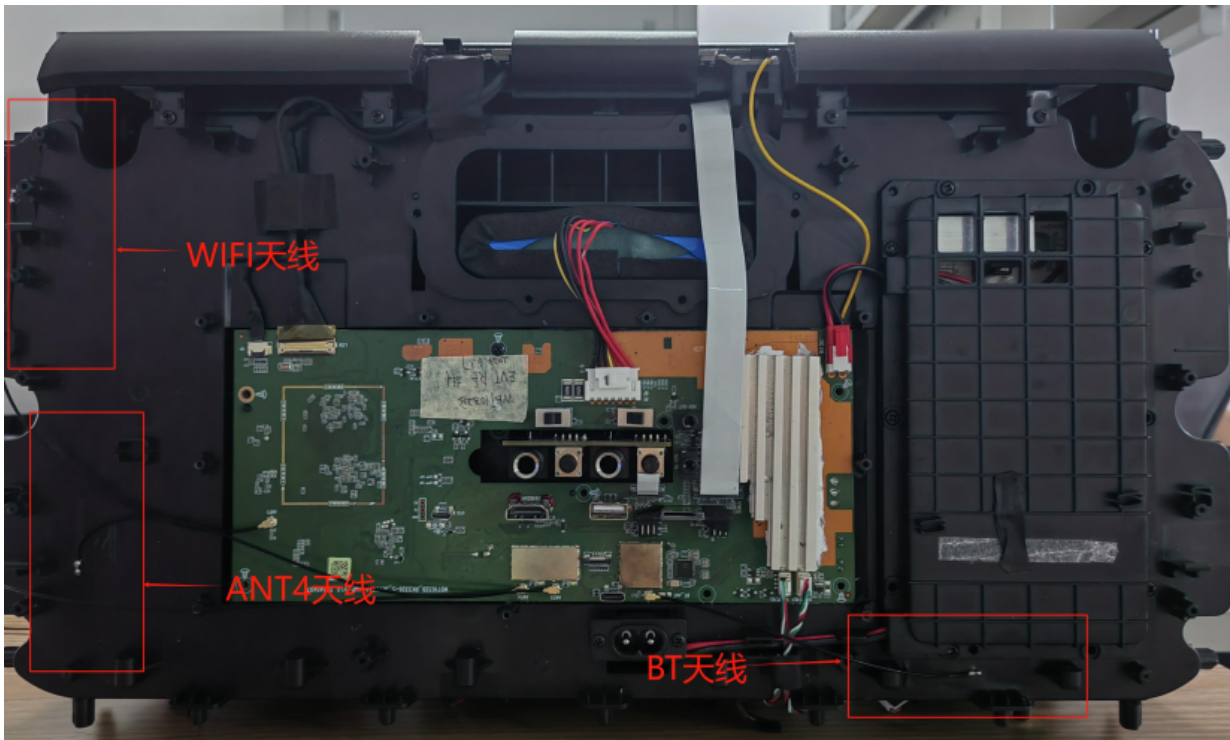
3.3 Gain&Efficiency

ANT4			
Freq (MHZ)	efficiency_db	Gain	efficiency (%)
2400	-1.41	5.54	72.3
2410	-1.48	4.87	71.17
2420	-1.53	5.32	70.28
2430	-1.66	4.52	68.27
2440	-1.65	4.57	68.37
2450	-1.64	4.86	68.59
2460	-1.59	4.71	69.36
2470	-1.55	4.91	69.97
2480	-1.52	4.98	70.48
2490	-1.46	5.14	71.4
2500	-1.59	4.9	69.33

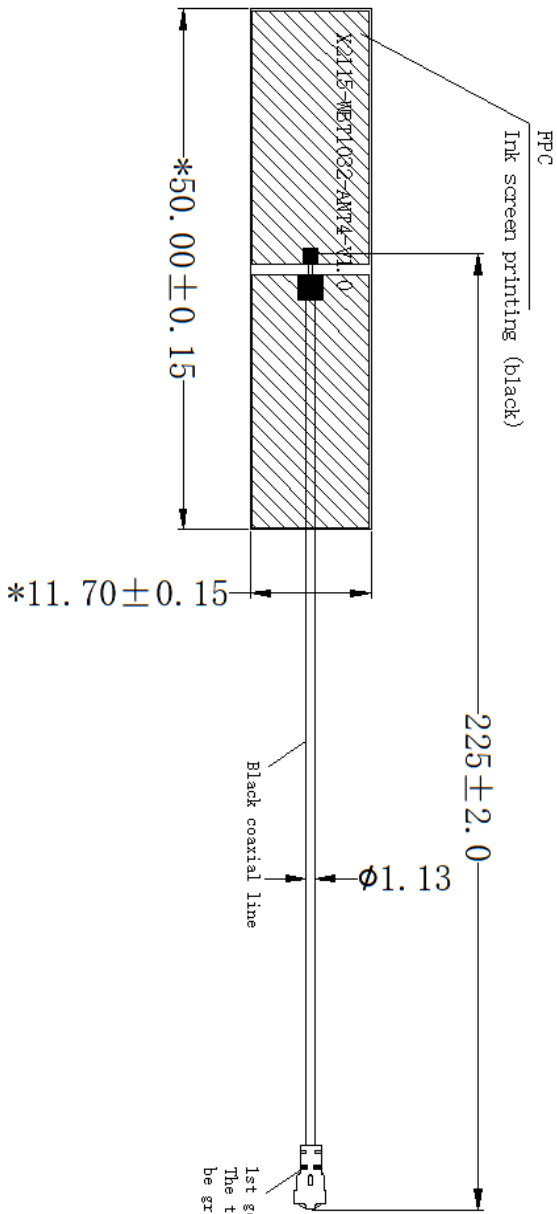
3.4 2D & 3D Radiation Pattern



3.5 Environment treatment



4. Antenna Engineer drawing

1	2	3	4	5	6																																																						
Environmental requirements : ROHS ☒ REACH ☐ No																																																											
																																																											
technical requirement 1. * Important dimension annotation 2. Comparison test graph of antenna voltage standing wave ratio; 3. The antenna welding part is firm and the cable size is accurate; Soldering should be full and round; there should be no oil residue on the surface; 4. The silk screen font is clear and not easy to peel off; 5. The inclination angle of the connector should not be greater than or less than 35 ° 6. The inclination angle of the connector should not be greater than or less than 35 ° 7. There should be no copper leakage at the cutting port. 8. The product must comply with the EU RoHS requirements. Shenzhen HamyWe Technology Co., Ltd <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">unmarked tolerances standard</th> <th>Type of machine</th> <th>Product name</th> <th>AMT4</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>XXX</td> <td>±2</td> <td>○</td> <td>12935-10325</td> <td></td> <td>2025.06.20</td> </tr> <tr> <td>XX</td> <td>±1</td> <td>⊙</td> <td>Material number 12935-10325-AMT4</td> <td></td> <td>M D</td> </tr> <tr> <td>X</td> <td>±0.5</td> <td>⊥</td> <td>material</td> <td>Special Process</td> <td>R F</td> </tr> <tr> <td>X</td> <td>±0.2</td> <td>□</td> <td>pages in total page 1</td> <td></td> <td>Auditor</td> </tr> <tr> <td>XX</td> <td>±0.10</td> <td>Angle</td> <td>First perspective</td> <td>unit</td> <td>mm scale</td> </tr> <tr> <td colspan="3"></td> <td>pages in total page 1</td> <td>unit</td> <td>mm scale</td> </tr> <tr> <td colspan="3"></td> <td>First perspective</td> <td>unit</td> <td>mm scale</td> </tr> <tr> <td colspan="3"></td> <td>unit</td> <td>mm scale</td> <td>Fl edition 14.0</td> </tr> </tbody> </table>						unmarked tolerances standard		Type of machine	Product name	AMT4	Date	XXX	±2	○	12935-10325		2025.06.20	XX	±1	⊙	Material number 12935-10325-AMT4		M D	X	±0.5	⊥	material	Special Process	R F	X	±0.2	□	pages in total page 1		Auditor	XX	±0.10	Angle	First perspective	unit	mm scale				pages in total page 1	unit	mm scale				First perspective	unit	mm scale				unit	mm scale	Fl edition 14.0
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5. Reliability Testing Report

customer	台德	part number	FPC	Work Date	2024.07.26
Test item	Test requirement			Test result	Evaluation
neutral Salt-Fog test	Hydrochloric fog through neutral testing: In the time of 24 hours, no rust corrosion, color fading or solder peel off to the antenna fpc sop in Nacl 5% ± 1% PH value 6.5-7.2, above 85% humidity. and 35℃ ± 2℃ Seals environment.			Norust corrosion, color fading or solder peel off on the antenna surface after testing	pass
tester: 伍海沅			approval: 伍海沅		