



No. 4406, New Factory Building of Aimeite, Huangfengling Industrial Zone, Luoizu Community,
Shiyan Sub-district, Bao 'an District, Shenzhen City

天线承认书

Parts Approval Sheet

Customer	星易美	Project	STM6710WLK
Band	WIFI	Color	BLACK
PN	X2111	Version	V0
Customer material number			

DATE: 2023/07/27

R&D			QC
Issued by	Checked by	Confirmed by	Checked by
伍海沅	钟一铭	梁毅	文孝群
Customer Confirm			

Environmental requirements: ☒ ROHS

☐ REACH

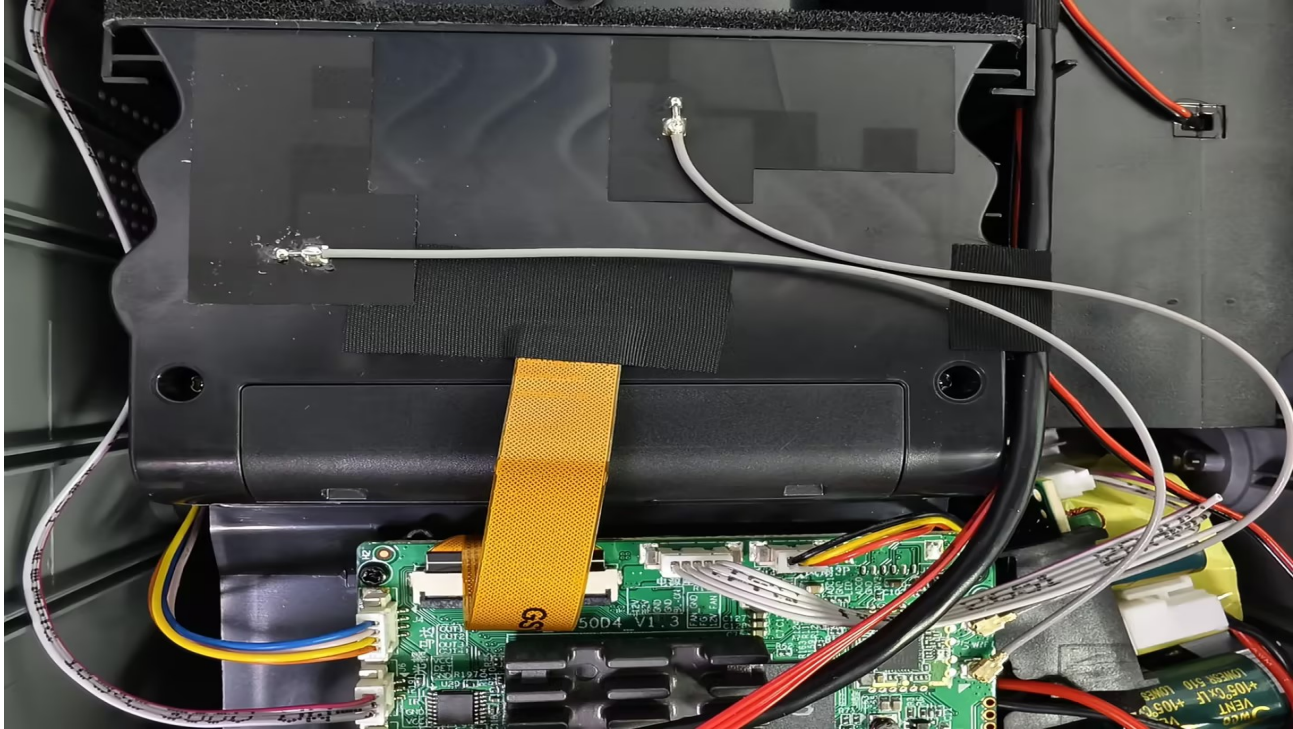
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1.Summary

This report summarizes the electrical results of the our antenna to support the project STM950-H2-320. 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

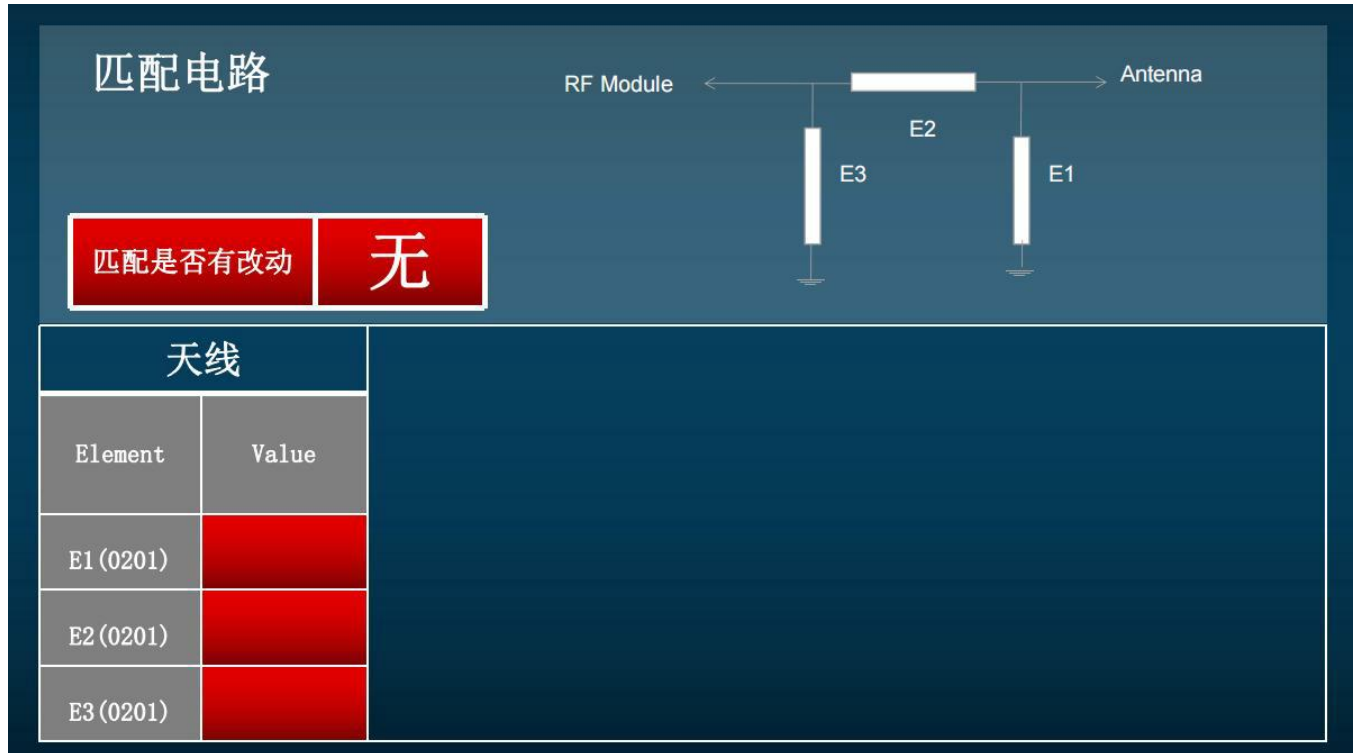
VSWR: Voltage Standing Wave Rate

TRP: total radiated power

TIS: total isotropic sensitivity

3.Electrical Performance

3.1 Matching Circuit Description



3.2 Antenna TRP&TIS test results

OTA 数据 (B 模)		
Channel	TRP	TIS
1	16.45	-77.20
7	16.79	-76.66
13	17.36	-76.97

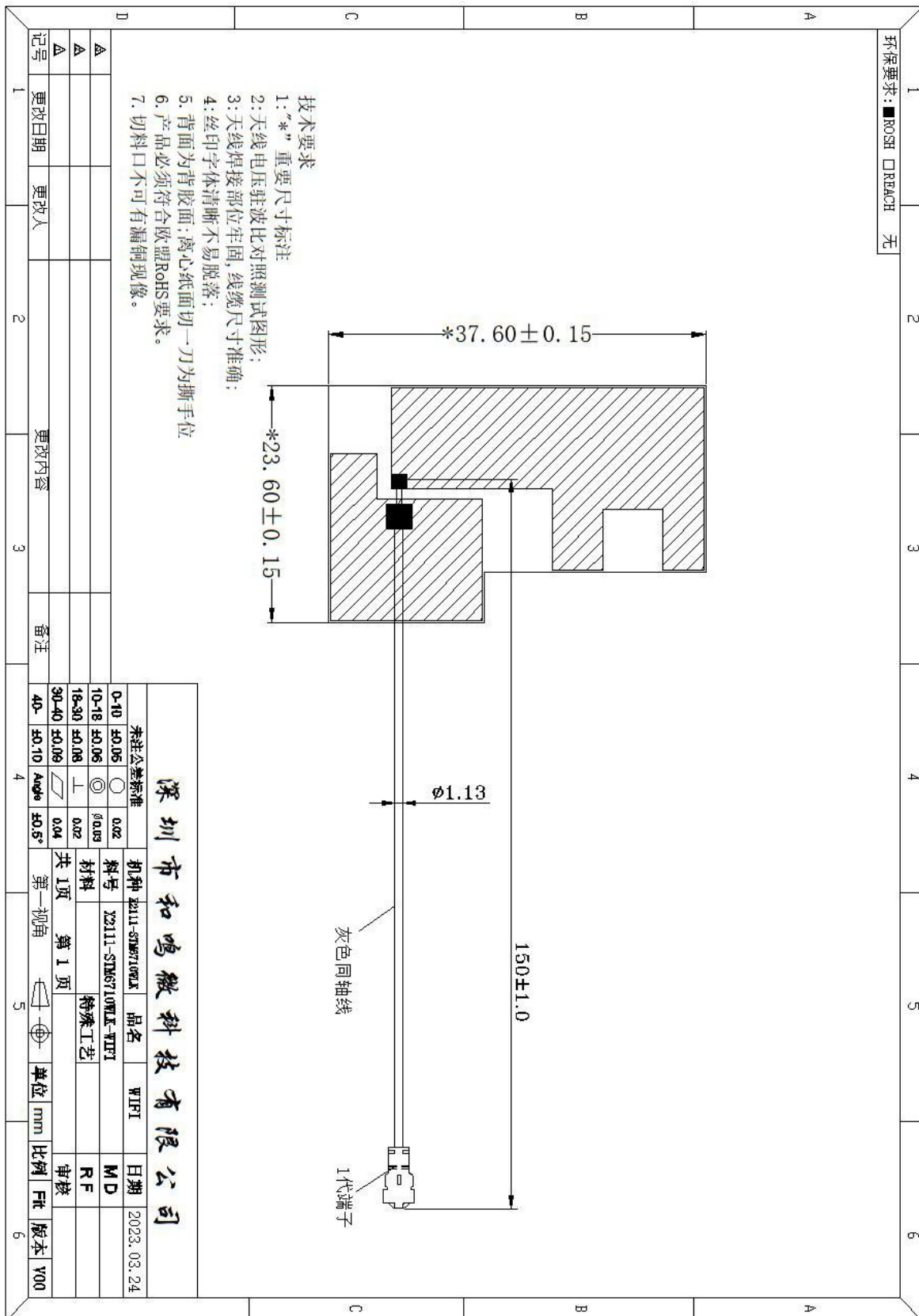
OTA 数据 (a 模)		
Channel	TRP	TIS
36	14.56	-71.02
149	14.69	-70.32
165	15.22	-70.99

3.3 Gain&Efficiency

2. 4G		
频率 (MHZ)	增益 (DBI)	效率 (%)
2400	2. 75	53. 42
2410	2. 87	53. 24
2420	2. 35	51. 83
2430	2. 58	54. 53
2440	2. 45	53. 85
2450	2. 54	54. 44
2460	2. 69	55. 94
2470	3. 15	57. 21
2480	3. 13	58. 47
2490	3. 13	59. 27
2500	3. 16	58. 9

5. 8G		
频率 (MHZ)	增益 (DBI)	效率 (%)
5150	2. 91	54. 01
5200	2. 84	54. 98
5250	3	54. 25
5300	2. 61	48. 46
5350	3. 02	48. 03
5400	2. 94	47. 69
5450	3. 12	45. 47
5500	3. 47	49. 21
5550	3. 19	48. 25
5600	3	49. 74
5650	2. 4	46. 99
5700	2. 12	48. 26
5750	2. 21	52. 24
5800	2	48. 72
5850	2. 34	53. 24

4. Antenna Engineer drawing



5. Reliability Testing Report

customer	星易美	part number	FPC	Work Date	2023.07.27
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% $\pm$ 1% PH value 6.5-7.2, above 85% humidity. and 35°C $\pm$ 2°C 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		