

SPECIFICATION



Shenzhen Daxian Technology Co., Ltd.

Takstar TH-005A BT Antenna assembly

Material Recognition Letter

Guest households	Takstar	frequency band	2400MHz~2500MHz
Project name	TH-005A	version	V1.0
Material No.	1T-H005A-004	color	Black
R F design	Xiao.Liu	structure design	RuiBin.Zhou
Quality Manager	YongJie.Pan	R & D director	Lei.Zhang
Date	2025-05-16		

client confirmation:

Whether the assembly meets your requirements: ☐OK ☐NG

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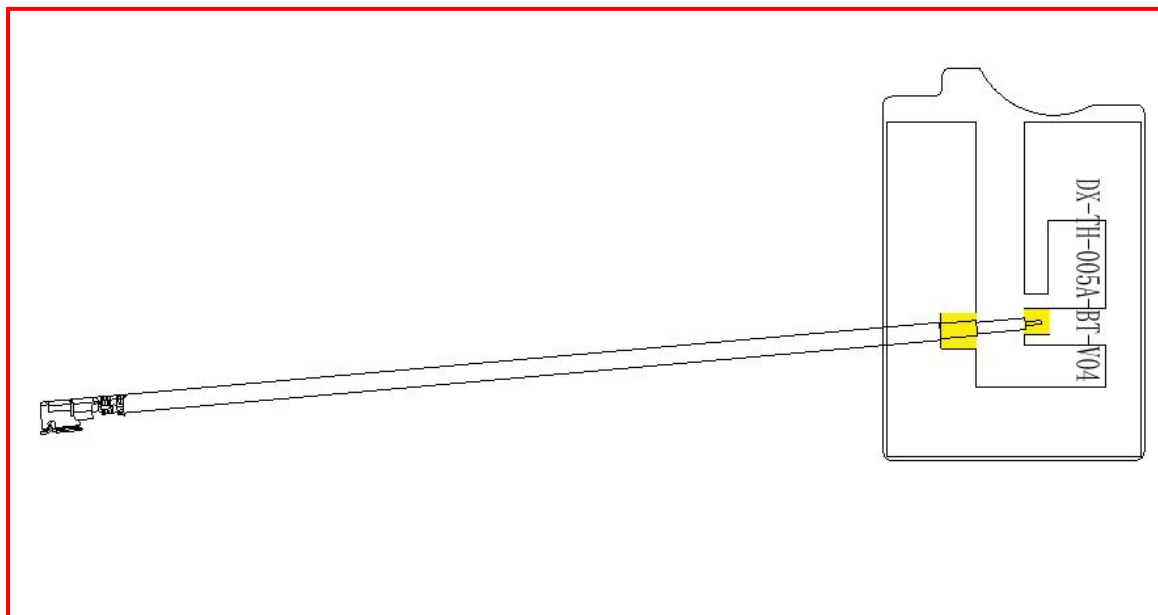
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I、 Project description

Customer name:	Takstar
Whole machine type:	Headphones
Antenna band:	2400 ~ 2500MHz
Antenna form:	FPC+Cable
Feed form:	weld
Hardware version:	V3.0

II、 BT Antenna assembly

This report provides a variety of measurements of the electrical performance of the TH-005A antenna. Figure 1 shows the antenna designed by the display.



antenna appearing diagram

Figure 1

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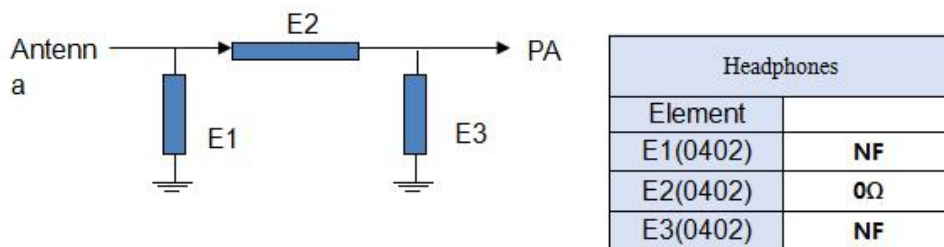
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1.1 Electrical specification standard

The frequency range of the antenna is 2400 ~ 2500 MHz. The following table indicates the electrical performance specifications of the antenna. The antenna is designed and manufactured by a large display.

Frequency Range	Frequency (MHz)	VSWR
BT	2400 ~ 2500	≤ 2

1.2 Motherboard antenna end match:



1.3 Antenna composition

The antenna is mainly composed of FPC+Cable.

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3 test

3.1 The Test of standing Wave (VSWR)

3.1.1 The Test of standing Wave (VSWR): In turn, the connection of the VSWR testing device is as follows: RES ZVL Network Analyzer / testing Line / testing tool

Actual measurement (with diagram)

3.2 Measurement of Efficiency, Power (TRP) and Sensitivity (TIS)

3.2.1 Test site:

Large-scale microwave darkroom. The test frequency range is 400MHz / 6GHz, the static range is 50cm circumferential and the reflectivity is less than-50 dB..

3.2.2 Test instrument:

Rs ZVL Network Analyzer, Agilent8960 E5515C, Standard Horn Antenna, French SATIMO-SG24SYSTEM system, Printer, etc.

3.2.3 test data : In microwave anechoic chambers, the power and sensitivity values measured are shown in the following table:

OTA Active Test:

Channels	TRP	TIS
0	6.64	-91.37
39	7.21	-90.66
78	7.42	-92.32

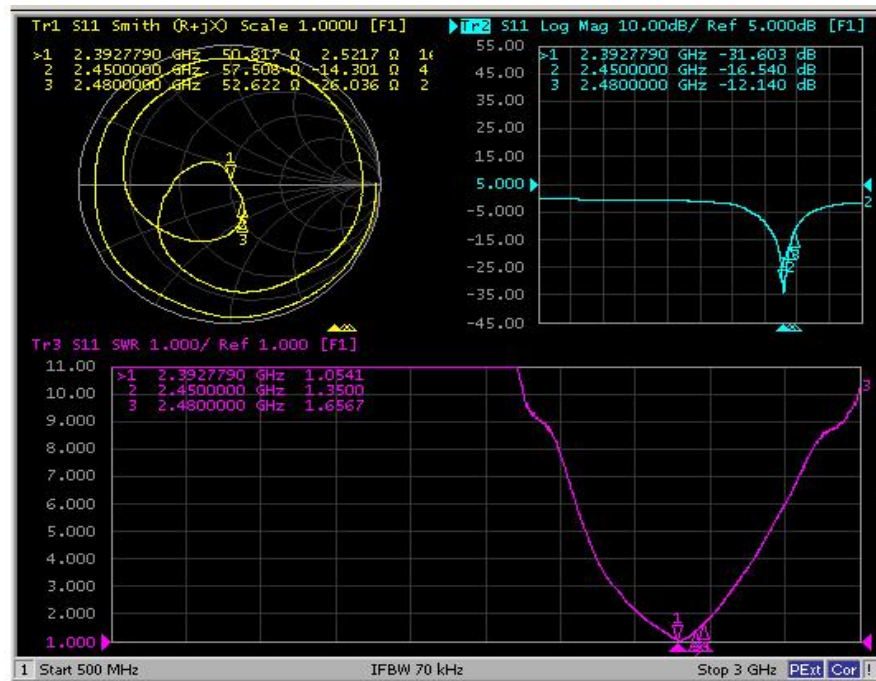
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Passive efficiency&gain:

Frequency (MHz)	Efficiency (%)	Gain (dBi)
2400	61.61	0.51
2410	61.34	0.51
2420	60.25	0.35
2430	58.43	0.29
2440	57.29	0.49
2450	56.81	0.74
2460	55.7	0.76
2470	54.38	0.8
2480	52	0.73

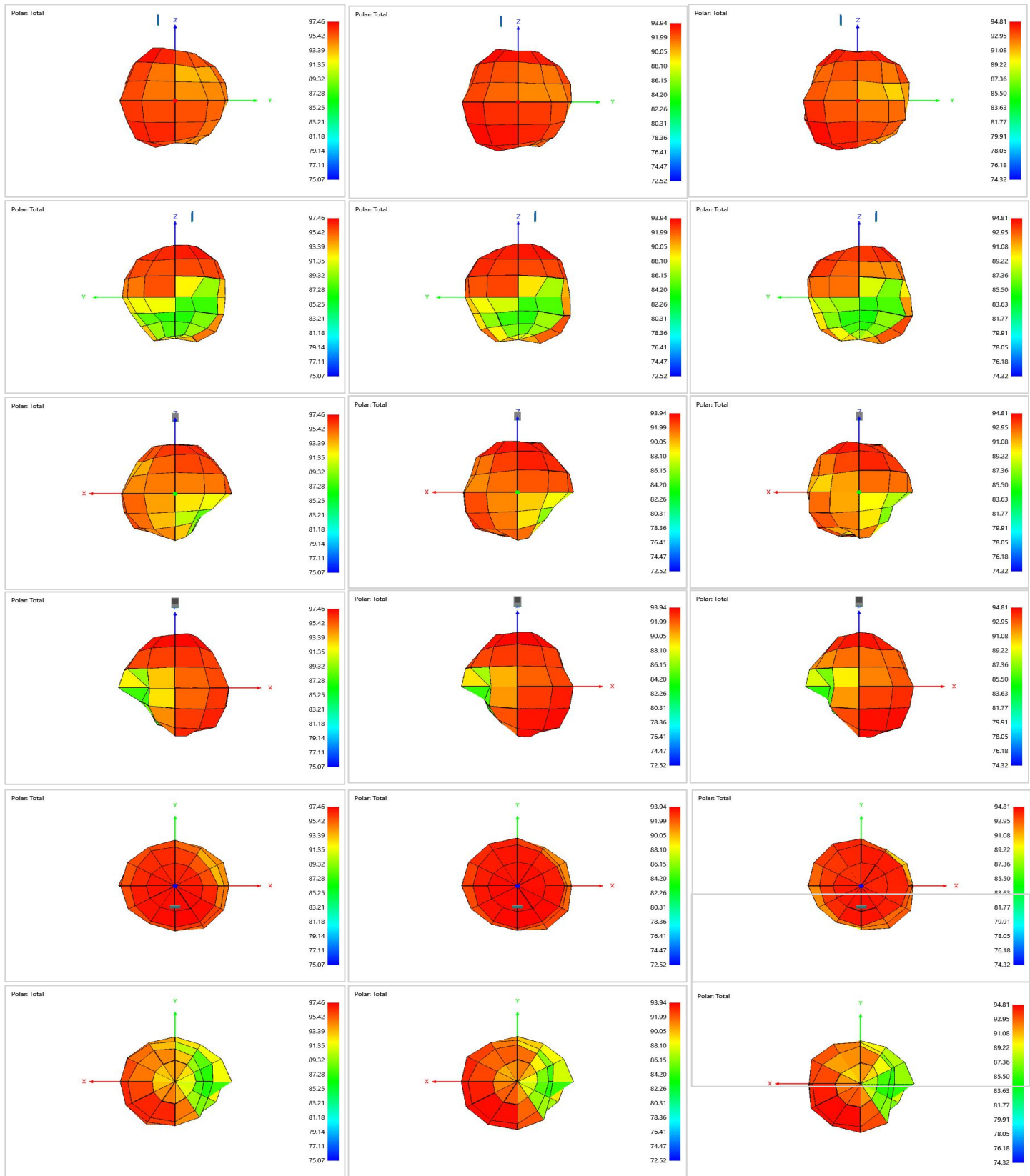
4、 VSWR parameter diagram

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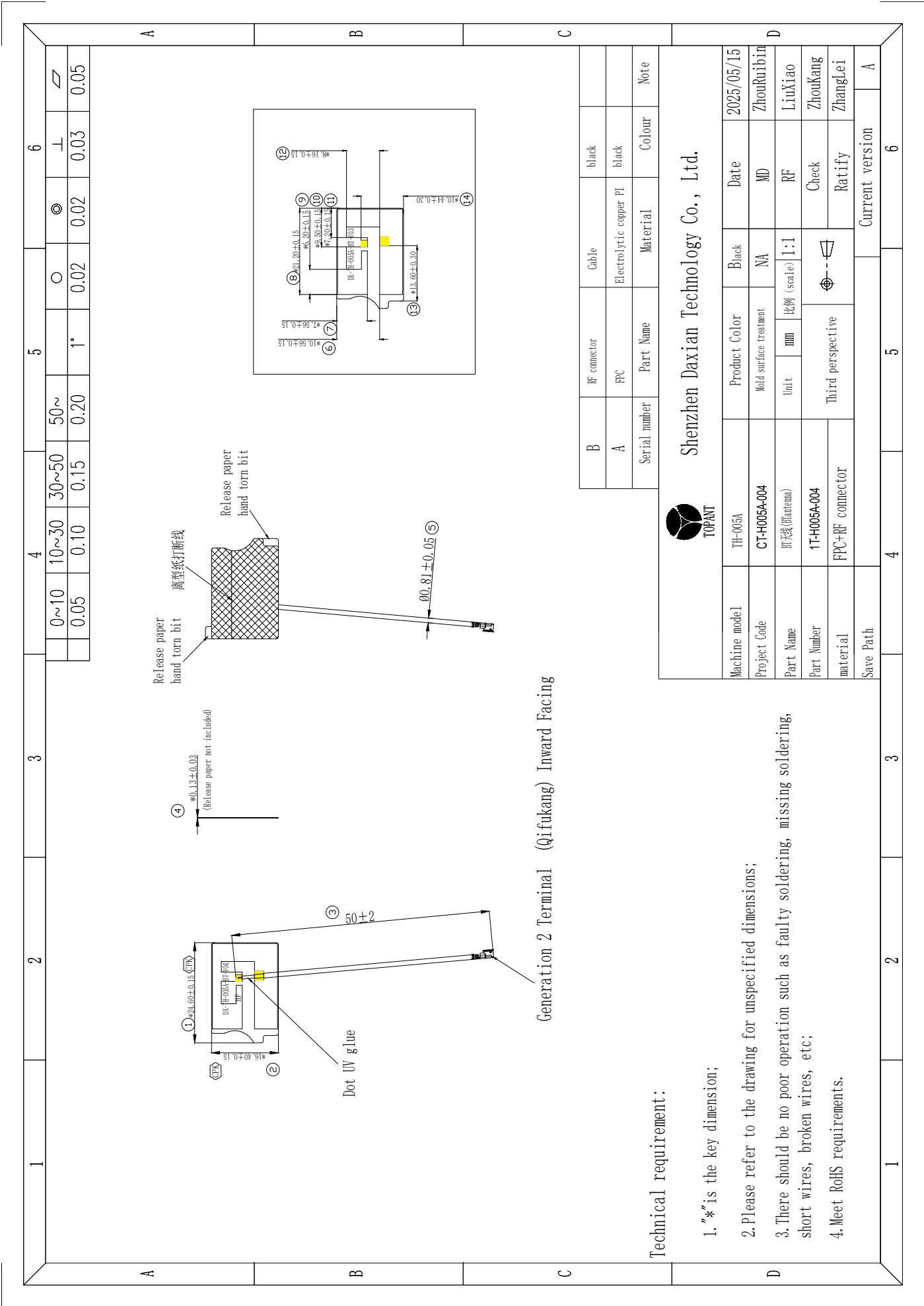
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9、Passive Field Pattern Diagram



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Generation 2 Terminal (Qifukang) Inward Facing

Technical requirement:

- 1. "*" is the key dimension;
- 2. Please refer to the drawing for unspecified dimensions;
- 3. There should be no poor operation such as faulty soldering, missing soldering, short wires, broken wires, etc;
- 4. Meet RoHS requirements.

B	RF connector	Cable	black	
A	FPC	Electrolytic copper PI	black	
Serial number	Part Name	Material	Colour	Note

Shenzhen Daxian Technology Co., Ltd.					
Machine model	TH-005A	Product Color	Black	Date	2025/05/15
Project Code	CT-H005A-004	Mold surface treatment	NA	MD	ZhouRuibin
Part Name	即式线 (即天线)	Unit	mm	比例 (scale)	1:1
Part Number	1T-H005A-004	Third perspective	RF	Check	LiuXiao
material	FPC+RF connector			Ratify	ZhouKang
Save Path				Current version	ZhangLei
					A