



SHENZHEN YINGJIACHUANG TECHNOLOGY ELECTRONIC CO. LTD

<http://www.szsyjc.com>

零件承认书

Approval Sheet

S u p p l i e r : Shenzhen Yingjia Chuang Electronic Technology Co., LTD

P a r t N a m e : 4GHz FPC Black built-in antenna 1.13Black L=60MM

P c o d e :

v e r s i o n : V1.0

m a t e r i a l C o d e : YJC-6N060-B155

D a t e : December 03,2024

Supplier confirmation

check	Proposed title/date	Review / date	Ratification/Date
Huang Teng	Huang Teng	Peng Huang	Xiao Han

Customer confirmation

Quality/date	Research / Date	Product Manager / Date



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APPROVAL SHEET

CUSTOMER NAME		
CUSTOMER P/N		
PART NAME	4G Built-in antenna	
P/ N	YJC-6N060-B155	
APPROVAL REV.	V1.0	
DELIVERY DATE	December 03, 2024	
PREPARED BY	Huang Teng	
CHECKED BY	Peng Huang	
APPROVED BY	Xiao Han	
Customer Approved		
Approved By	Checked By	Prepared By

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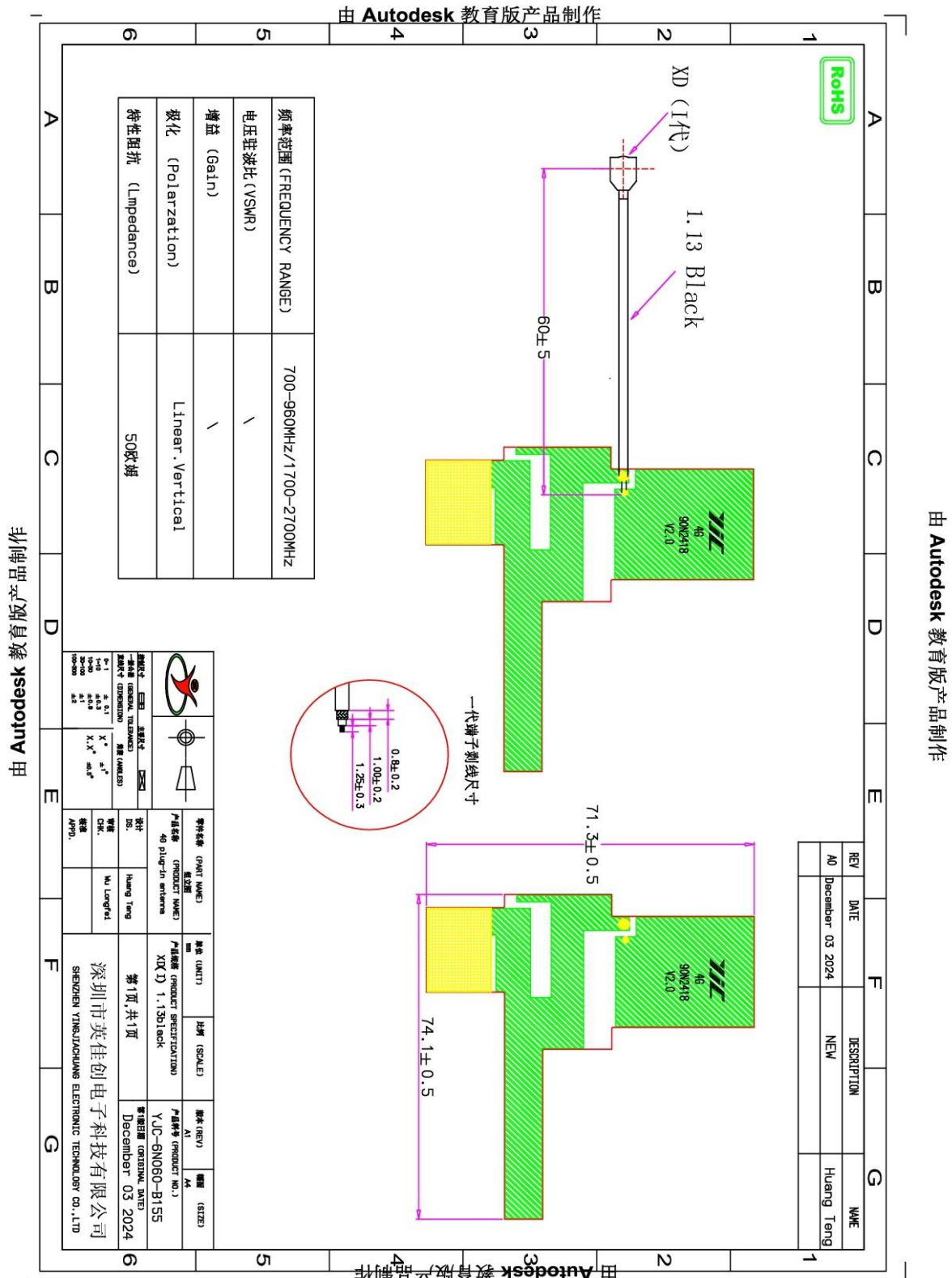


Resumer:

Version	Change contents and reasons	Date	Issue
A0	NEW	December 03, 2024	



The antenna's floor plan:





Antenna technical parameters and environmental testing:

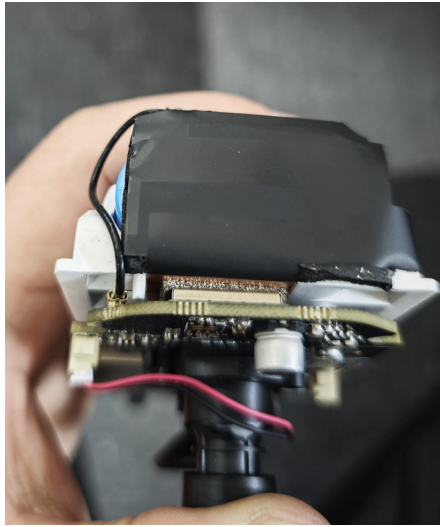
Electrical parameters of electrical apparatus			
Electrical Specifications		Mechanical Specifications	
Frequency Range	700-960MHz/1700-2700MHz	Antenna color	Black
VSWR	\	Interface form	XD (I)
Input Impedance	50 Ω	Antenna Color	BLACK
Direction	All	Working Temperature	-20℃~+70℃
Gain	\	Working Humidity	20%~80%

Environmental performance test:

project	test condition	standard
Storage Conditions	In the absence of specified test temperature, humidity, air pressure is as follows: 1. Temperature is - 20 °C ~ + 70 °C 2. Relative humidity of 45% to 45% 3. Air pressure is 86 kpa to 106 kpa	Electrical and mechanical properties is normal
high and low temperature test	Between 70 °C and -20 °C for 5 loops, then 1-2 h under normal conditions, check the appearance quality.	Size should meet the requirements and should satisfy the content with the electrical and mechanical properties
Constant damp and hot resistance test	95 + / - 3% relative humidity, temperature test: 40 °C. Lasts 2 h after, try to take out the determination of electrical properties, within 5 min after try 1-2 h under article normal thing, check the appearance quality	Size should meet the requirements and should satisfy the content with the electrical and mechanical properties
vibration test	10-55 hz, vibration frequency range of displacement amplitude: 0.35 MM, acceleration amplitude: 50.0 M/S, sweep cycles: 30 times	Electrical and mechanical properties is normal
fall down test	1 m high altitude in accordance with the perpendicular axis free drop 3 times	Electrical and mechanical properties is normal



Physical picture of antenna and attach location picture:



Antenna gain:

LTE Band 2: 3.86dBi, LTE Band 4: 3.97dBi, LTE Band 5: 4.99dBi,
LTE Band 12: 4.99dBi, LTE Band 13: 4.99dBi, LTE Band 66: 3.97dBi



OTA active test data statistics:

(EU)

Item	Measurement	Standard	Band	Total
1	TRP	FDD_LTE	FDD_B28(10MHz)	15.57
2	TRP	FDD_LTE	FDD_B28(10MHz)	16.15
3	TRP	FDD_LTE	FDD_B28(10MHz)	16.41
4	TIS(RSSI)	FDD_LTE	FDD_B28(10MHz)	-81.36
5	TRP	FDD_LTE	FDD_B20(10MHz)	16.8
6	TRP	FDD_LTE	FDD_B20(10MHz)	16.51
7	TRP	FDD_LTE	FDD_B20(10MHz)	16.35
8	TIS(RSSI)	FDD_LTE	FDD_B20(10MHz)	-85.25
9	TRP	FDD_LTE	FDD_B5(10MHz)	17.65
10	TRP	FDD_LTE	FDD_B5(10MHz)	16.66
11	TRP	FDD_LTE	FDD_B5(10MHz)	16.72
12	TIS(RSSI)	FDD_LTE	FDD_B5(10MHz)	-81.19
13	TRP	FDD_LTE	FDD_B3(10MHz)	18.42
14	TRP	FDD_LTE	FDD_B3(10MHz)	18.58
15	TRP	FDD_LTE	FDD_B3(10MHz)	17.33
16	TIS(RSSI)	FDD_LTE	FDD_B3(10MHz)	-87.49
17	TRP	FDD_LTE	FDD_B1(10MHz)	18.35
18	TRP	FDD_LTE	FDD_B1(10MHz)	17.57
19	TRP	FDD_LTE	FDD_B1(10MHz)	17.1
20	TIS(RSSI)	FDD_LTE	FDD_B1(10MHz)	-88.48
21	TRP	FDD_LTE	FDD_B7(10MHz)	16.23
22	TRP	FDD_LTE	FDD_B7(10MHz)	17.23
23	TRP	FDD_LTE	FDD_B7(10MHz)	17.47
24	TIS(RSSI)	FDD_LTE	FDD_B7(10MHz)	-89.3

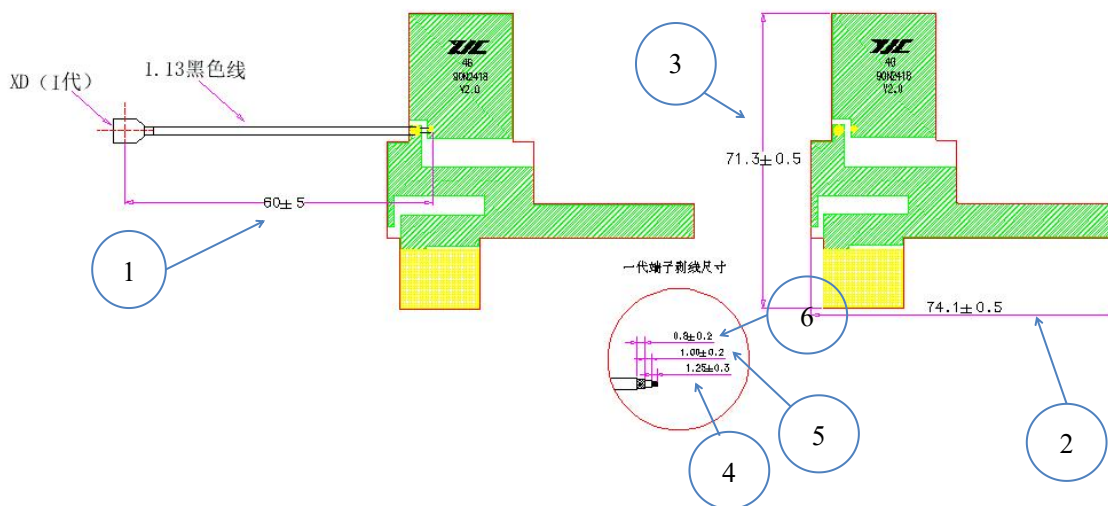


(US)

Item	Measurement	Standard	Band	Total
1	TRP	FDD_LTE	FDD_B12(10MHz)	16.94
2	TRP	FDD_LTE	FDD_B12(10MHz)	16.52
3	TRP	FDD_LTE	FDD_B12(10MHz)	15.51
4	TIS(RSSI)	FDD_LTE	FDD_B12(10MHz)	-82.98
5	TRP	FDD_LTE	FDD_B13(10MHz)	17.56
6	TIS(RSSI)	FDD_LTE	FDD_B13(10MHz)	-84.30
7	TRP	FDD_LTE	FDD_B5(10MHz)	17.00
8	TRP	FDD_LTE	FDD_B5(10MHz)	17.04
9	TRP	FDD_LTE	FDD_B5(10MHz)	16.32
10	TIS(RSSI)	FDD_LTE	FDD_B5(10MHz)	-83.19
11	TRP	FDD_LTE	FDD_B2(10MHz)	18.35
12	TRP	FDD_LTE	FDD_B2(10MHz)	17.00
13	TRP	FDD_LTE	FDD_B2(10MHz)	18.16
14	TIS(RSSI)	FDD_LTE	FDD_B2(10MHz)	-90.39
15	TRP	FDD_LTE	FDD_B4(10MHz)	16.14
16	TRP	FDD_LTE	FDD_B4(10MHz)	17.47
17	TRP	FDD_LTE	FDD_B4(10MHz)	16.63
18	TIS(RSSI)	FDD_LTE	FDD_B4(10MHz)	-89.96
19	TRP	FDD_LTE	FDD_B66(10MHz)	15.89
20	TRP	FDD_LTE	FDD_B66(10MHz)	17.57
21	TRP	FDD_LTE	FDD_B66(10MHz)	17.30
22	TIS(RSSI)	FDD_LTE	FDD_B66(10MHz)	-90.02



Full size test report



全尺寸检测报表

											测试日期	20241203										
零件名称		4G FPC内置天线			零件图号							模号										
模具编号					零件料号		YJC-6N060-B155					模穴数	4									
Inspection tool legend:																						
C=Comparator H=Height Gage MC=Microscope CA=Caliper S=Smartscope CM=CMM T= Thread gage F=Feeler gage MI=Micrometer. O=Other gage 以上检具若无可在此增加																						
											尺寸 个数	NG 尺寸个 数	重点尺 寸个数	MG重点 尺寸个 数								
											6	0	6	0								
											制表	×	×	×	审核	×	×	×	核准	×	×	×
序号	重点 尺寸 (Y/N)	规格	上公差	下公差	尺寸 上限	尺寸 下限	对应模穴号产品实测值（红色字体 代表尺寸超差）				判定	NG尺寸评估状态			检具	客户回复						
							模穴#1	模穴#2	模穴#3	模穴#4		原因 分析	改善对 策	计划完 成时间		客户工 程师:	XXX					
1	Y	60.00	5.00	5.00	65.00	55.00	61.00	60.20	60.50	60.80	OK					接受						
2	Y	74.10	0.50	0.50	74.60	73.60	74.18	74.09	74.13	74.08	OK											
3	Y	71.30	0.50	0.50	71.80	70.80	71.36	71.26	71.29	71.81	OK											
4	Y	1.25	0.30	0.30	1.55	0.95	1.29	1.30	1.29	1.28	OK											
5	Y	1.00	0.20	0.20	1.25	0.85	1.03	1.05	1.02	1.01	OK											
6	Y	0.80	0.20	0.20	1.20	0.80	0.86	0.85	0.83	0.84	OK											