一、Specification

1、Parameters about electricity

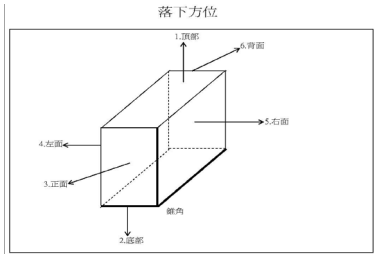
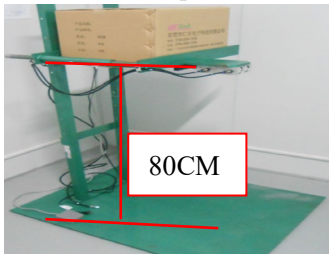
No.	Item	Spec.	Test Condition
1	Frequency(MHZ)	2400 MHZ-2500 MHZ	Microwave Anechoic Chamber
2	Gain Test	≥0.5dBi ，≤2dBi	Microwave Anechoic Chamber
3	Efficiency Test	≥50%，≤100%	Microwave Anechoic Chamber
4	Center frequency characteristic impedance（Ω）	50	Network Analyzer

2、Mechanical performance parameters

No.	Item	Spec.	Test Condition
1	RF1.13 Cable Length	50±3(mm)	Measure Tool：Steel Ruler Pass Criterion：50±3（mm）
2	Length of FPC	33.35±0.2（mm）	Measure Tool：Digital Calipers Pass Criterion：33.35±0.2（mm）
3	Width of FPC	15.5±0.2（mm）	Measure Tool：Digital Calipers Pass Criterion：15.5±0.2（mm）
4	Thickness of FPC	0.2±0.1（mm）	Measure Tool：Digital Calipers Pass Criterion：0.2±0.1（mm）

二、Reliability test

No.	Item	Test Condition	Criterion
1	Salt Spray Test	Test Condition：temp.:35℃，Salt solution concentration:5%（PH value standard of salt solution after cooling is 6.5~7.2），Average amount of salt solution collected:1.0～2.0(ml/hr) Test Time:48H(cable terminal)/8H(cable)	Pass Criterion：No oxidation on product surface after 48H/8H
2	Terminal Tension Test	Test method: adjust the height of the upper and lower cross arms to make the fixture spacing appropriate; Clamp the upper end of the test piece with the upper clamp, and press the reset button to reset the pointer to zero;Press the pull gauge pointer lock switch; Clamp the lower end of the test piece with the lower clamp; Rotate the hand wheel to lower the cross arm to stretch the test piece;	If the tension value on the tension meter is ≥ 1.2KG, it is judged as OK, otherwise it is NG.

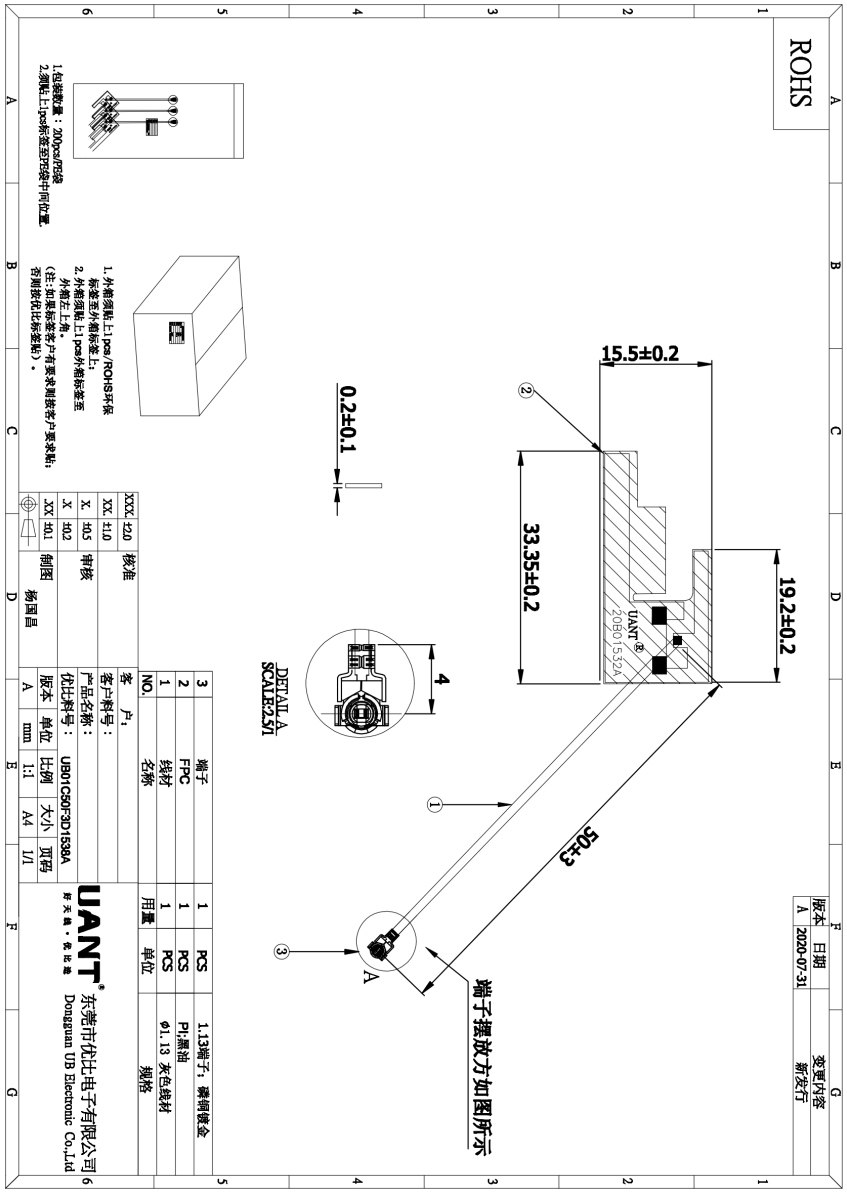
3	Terminal pull-out force test	Test method: snap the terminal into the terminal base, and shake the handwheel to move the claw of the pullout test fixture to the appropriate position; Open the clamping claw to hook the back of the terminal. Return the pointer to zero and shake the handwheel to start the test.	If the tension value on the tension meter is greater than 0.8KG, it is judged as OK, otherwise it is NG.
4	Drop Test	Test Condition： 1、Drop 6 surfaces of carton  图一 2、Distance between product with steel plate on floor：80 CM  图二 Test Method： 1. Firstly, fix the carton to be tested on the product holder to and the force to clamp should be appropriate to avoid breaking the tested sample 2. Adjust the drop height as 80CM 3. Firstly, turn on the main power switch and connect the air pipe 4. After the work is completed, disconnect the air pipe and power switch and take down the sample	1、The carton should not be damaged obviously after the test. 2The product inspected after the test, and there shall be no defects after the electrical and appearance inspection.
5	Coaxial material appendix		

型号 Type	RF-1.13/50	料号 P/N	SY113/50-064(Gray)
结构图 Structure drawing			

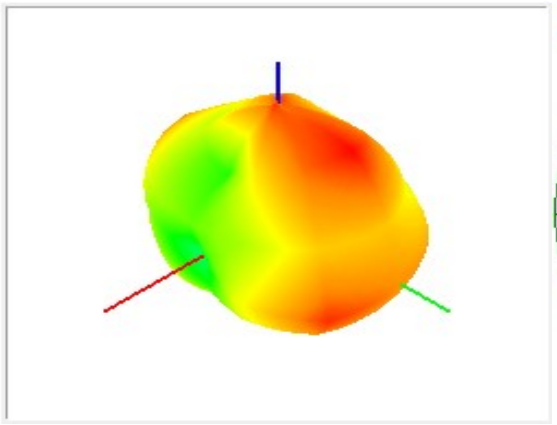
结构特性 Structure characteristics

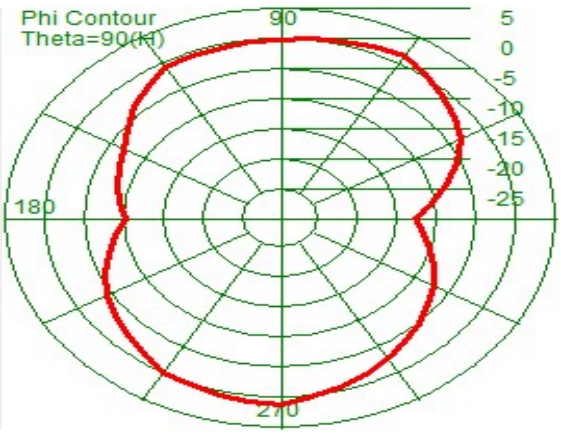
结构 Structure	项目 Item	标准值 Standard value
①内导体 Inner conductor	材料 Material	镀锡铜线 Tinned copper wire
	组成:总根数/单根外径(mm) Makeup:total / O.D. of every wire(mm)	7/0.08
	(绞合)标称外径(mm) (Intertwist)NOM.O.D.(mm)	0.24±0.02
②绝缘层 Insulation	材料 Material	聚全氟乙丙烯 FEP
	颜色 Color	透明 Clarity
	标称外径(mm) NOM.O.D.(mm)	0.7±0.03
③外导体 Outer conductor	材料 Material	镀锡铜线 Tinned copper wire
	组成:总根数/单根外径(mm) Makeup:total / O.D. of every wire(mm)	4/0.05
	标称外径(mm) NOM.O.D.(mm)	0.92±0.05
	覆盖率(%) Coverage ratio(%)	90±5
④护套层 Jacket	材料 Material	聚全氟乙丙烯 FEP
	颜色 Color	灰 Gray
	标称外径(mm) NOM.O.D.(mm)	1.13±0.05

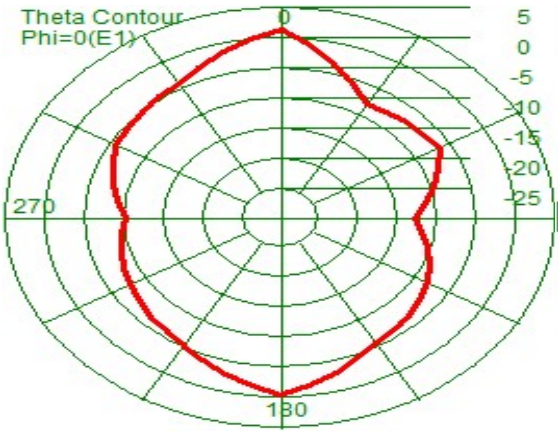
Antenna photo

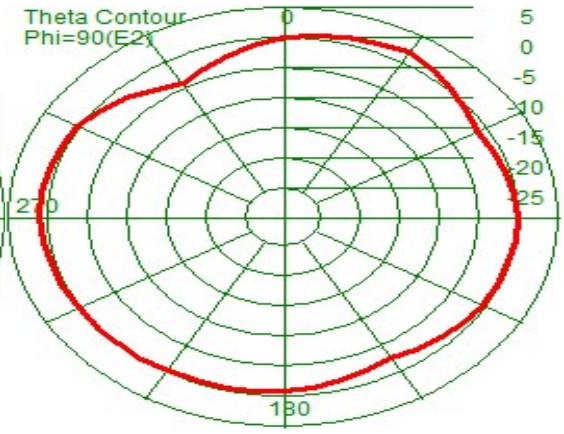


Gain: 2.0dBi




Phi Contour
Theta=90(H)
90
5
0
-5
-10
-15
-20
-25
180
270


Theta Contour
Phi=0(E1)
0
5
0
-5
-10
-15
-20
-25
270
180


Theta Contour
Phi=90(E2)
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5
0
-5
-10
-15
-20
-25
270
180