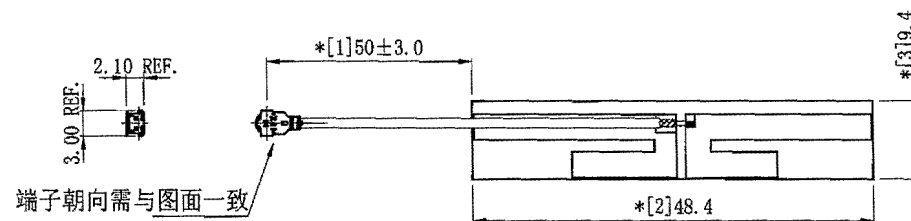


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REVISION	DESCRIPTION	DATE	DRAFTER
A0	FIRST RELEASE	20.02.17	MARK



技术要求:

1 电气特性: 特性阻抗:50Ω。

检验方法: 单测天线, 使用矢量网络分析仪100%测试。

2 尺寸检验: [*]为FAI检测项目; *为重点检测项目; ■为CPK管制项目。

3 外观检验: 电缆裁切须平整, 镀锡须光亮, 导体不得有多余股数伸出与散乱;
FPC不得有划痕、刮伤、露铜等不良, 焊接须饱满, 不得有假焊、虚焊、毛刺;
电缆外被不得有破损、折皱及异色等不良。

检验方法: 目视全检。

4 包装规范: 50PCS/扎, 2扎/包, 即100PCS/包。

5 环保要求: 产品及其使用之物料皆需要符合RoHS要求。

COMPLIANCE WITH THE REQUIREMENT: ■RoHS; □ HF; □ SONY SS-00259; □ OTHERS
*NO USING ERICTED AND BANNED SUBSTANCE

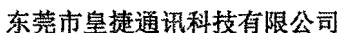
H372

3	2LM10P113210	第一代 MHF FOR 1.13 CABLE	1	—
2	2YF074	FPC ANTENNA, 黑色防焊漆	1	—
1	2C5M11311BK1	OD1.13黑色银锡线-50 OHM	1	依裁线图裁线
No.	PART NUMBER	PART NAME & DESCRIPTION	Q' TY	REMARKS
GENERAL TOLERANCE: LINEAR: X ±1.0 X.X ±0.50 X.XX ±0.30 X.XXX ±0.10 ANGLE: X° ±4.00° X.X° ±3.00° X.XX° ±2.00° X.XXX° ±1.00°				
HJ-Tech 东莞市皇捷通讯科技有限公司				
FILE NAME: 产品图		TITLE: 射频天线组件		
ENG/DATE: Mark/20.02.17		内置天线, 1.13, 黑色银锡线; P1端焊接FPC; P2端打一代端子; 外露线长L=50mm		
CIE/DATE:		P/N: 3N0401BK-019		
APP/DATE:		UNIT: mm	SCALE: 1:1	REVISION: A0 SHEET: 1/1

样品检查报告

Sample Inspection Report

客户 Customer	鼎盛	品名规格 Part Name	1.13,黑色银锡线;P1端焊接FPC;P2端打端子;外露线长L=50mm		皇捷料号 HJ Part No.	3N0401BK-019		
客户料号 Cus P/N	/	数量 Qty	5		日期 Date	2020.01.15		
项目 Item	检验内容 Test content				异常结果描述 Description of abnormal results		判定 Judge	
材料 Material	与图纸规格相符 meet with request						☐ OK ☐ NG	
外观 Apperance	无漏工序或零件, 焊点正确、无漏、假和虚焊、明显锡尖和脏污 No missing process or parts, correct solder joint, no leakage, false and false welding, obvious tin tip and dirt						☒ OK ☐ NG	
重点尺寸 Key size measure	尺寸规格 Spec	检测仪器 Tool	测量结果 Measured results(mm)					判定 Judge
			1	2	3	4	5	☐ OK ☐ NG
	50.0±3.0	0	50.5	50.3	50.2	50.1	50.6	☒ OK ☐ NG
	48.4±0.5	C	48.40	48.50	48.44	48.60	48.50	☒ OK ☐ NG
	9.4±0.5	C	9.40	9.50	9.60	9.38	9.45	☒ OK ☐ NG
								☐ OK ☐ NG
								☐ OK ☐ NG
性能测试 Functional test								☐ OK ☐ NG
								☐ OK ☐ NG
								☐ OK ☐ NG
								☐ OK ☐ NG
								☐ OK ☐ NG
Tool Code: C:Caliper卡尺 M:Micrometer千分尺 P: Profile Projector投影仪 H:Height Gauge高度计 PG:Plug Gauge塞规 TG:Thread Gauge螺纹规 NS:Network analyzer网络分析仪 TO: Torsiometer扭力计 TE:Tensometer拉力计 SS:Salt spray tester盐雾试验机 O:Other 其它)								
检验依据According to: ☐ 客户图纸或标准Customer's drawing or spec ☒ 标准样品Gold sample ☐ 其它Other								
综合判定: Synthetic judgement		☒ 合格Accept ☐ 不合格Reject						
审核Checker		Jiang neng guan		检验员Inspector		Jiang wen jie		

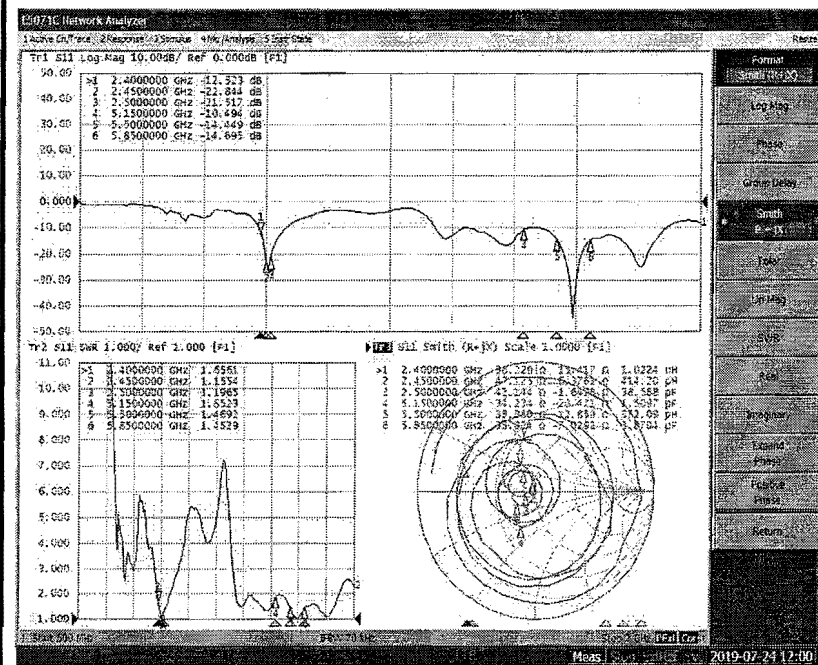
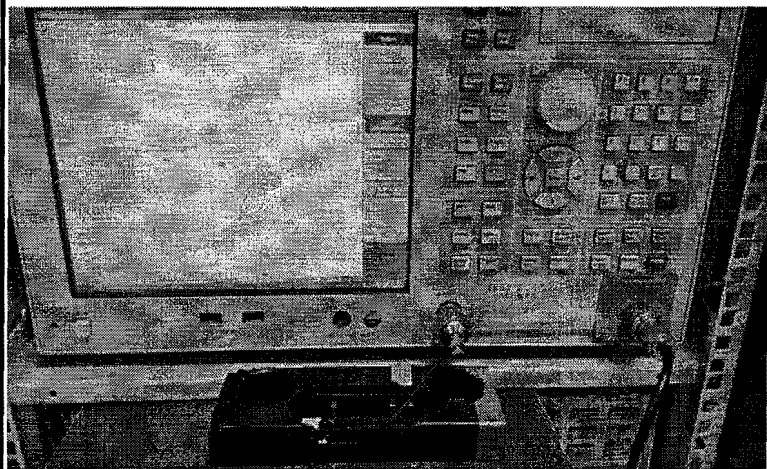


天线电气特性测试报告

Antenna Electrical Characteristic Test Report

文件编号:HJ-QR-Q-22 Rev:A0

产品料号 Part Number:	3N0401BK-019	测试项目 Item	规格 Spec	结果判定 Judge
产品名称 Part Name:	内置天线,1.13,黑色银锡线;P1端焊接FPC; P2端打一代端子;外露线长L=50mm	VSWR 驻波比	≤2.0	pass
测试设备 Test Equipment	Network analyzer网络分析仪	Characteristic impedance 特性阻抗	50Ω	pass
数 量 Quantity	5pcs	Return loss 回波损耗	≤-10dB	pass
测试日期 Test Date	2/17/2020	Gain 增益		



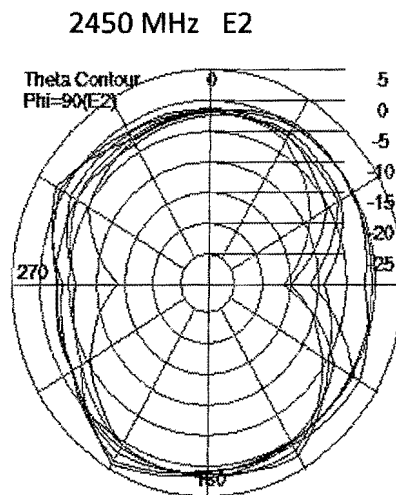
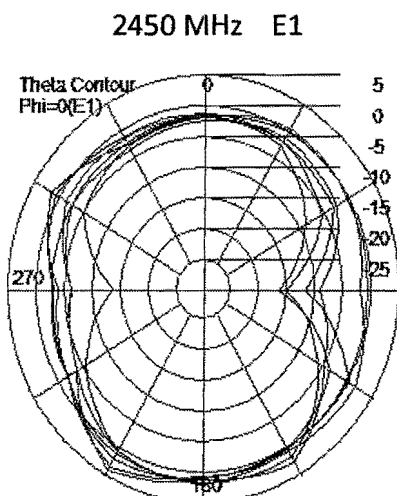
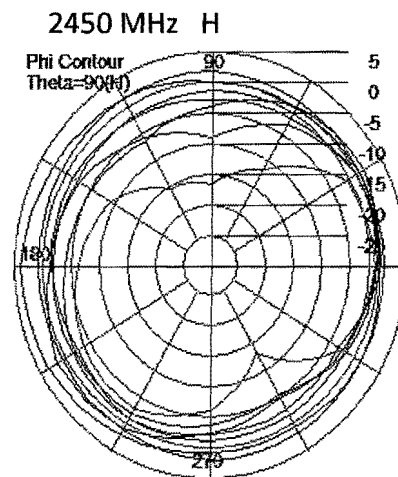
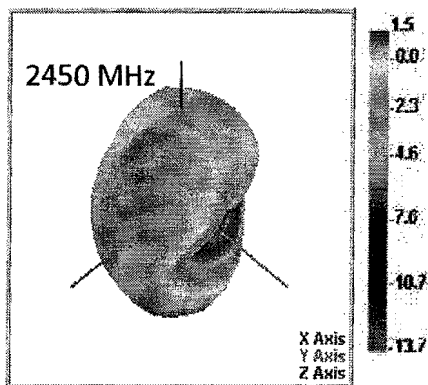
审核Checker: 王俊

测试者Tester: Mark

产品料号	3N0401BK-019	产品名称	/
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Test Point ID	Freq. (MHz)	TRP (dBm)	Gain (dBi)	Directivity (dBi)	Efficiency (%)	Test Point ID	Freq. (MHz)	TRP (dBm)	Gain (dBi)	Directivity (dBi)	Efficiency (%)
1	2400.0	2400.00	3.62	5.13	70.6%	11	2500.0	2500.00	3.14	4.92	66.4%
2	2410.0	2410.00	3.60	5.18	69.5%	12	5000.0	5000.00	2.24	4.76	55.9%
3	2420.0	2420.00	3.92	5.42	70.9%	13	5100.0	5100.00	2.75	4.93	60.5%
4	2430.0	2430.00	4.05	5.55	70.9%	14	5200.0	5200.00	2.57	4.98	57.4%
5	2440.0	2440.00	4.03	5.67	68.5%	15	5300.0	5300.00	2.08	5.20	48.8%
6	2450.0	2450.00	3.88	5.40	70.3%	16	5400.0	5400.00	2.48	5.88	45.6%
7	2460.0	2460.00	3.42	5.13	67.6%	17	5500.0	5500.00	2.35	5.88	44.4%
8	2470.0	2470.00	3.21	4.79	69.4%	18	5600.0	5600.00	1.81	5.66	41.2%
9	2480.0	2480.00	3.10	4.79	67.8%	19	5700.0	5700.00	1.46	4.82	46.1%
10	2490.0	2490.00	3.12	4.74	68.9%	20	5800.0	5800.00	1.47	5.03	44.1%
11	2500.0	2500.00	3.14	4.92	66.4%	21	5900.0	5900.00	2.31	5.61	46.8%

Radiation



审核Checker: 王俊

测试者Tester: Mark

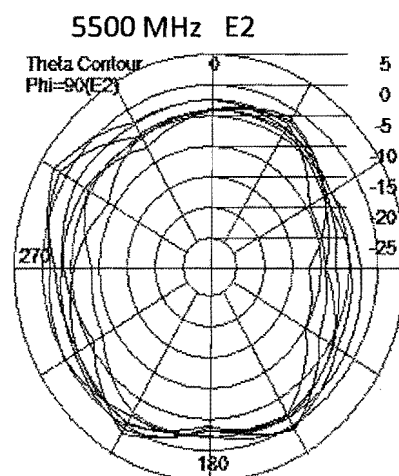
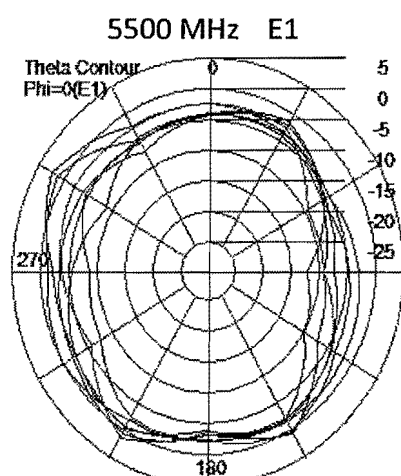
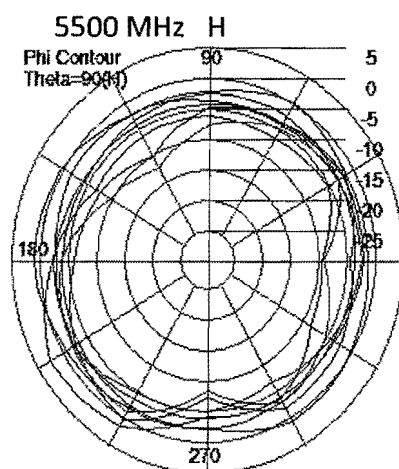
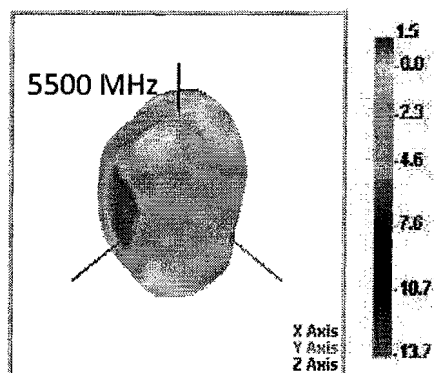
产品料号

3N0401BK-019

产品名称

/

Radiation



审核Checker: 王俊

测试者Tester: Mark

1. 适用范围:

Scope

本规格书制定了 RF113 50Ω FEP 绝缘射频电缆的结构和电气特性.

This specification covers the construction and the electrical properties of RF113 50Ω FEP Insulation Coaxial Cable

2. 结构/Construction:

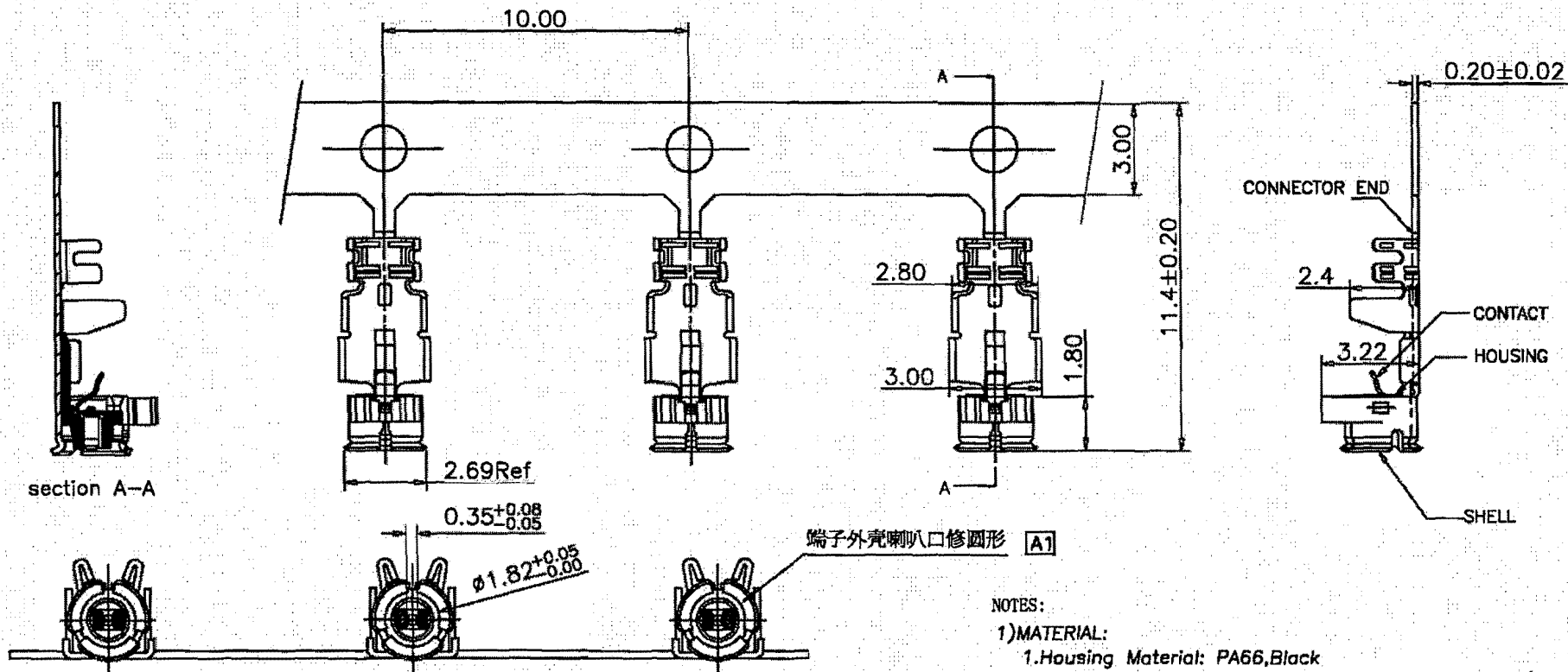
单位/Unit:mm

项目/Item		详细资料/Details
导体/Conductor	材料/Material	镀银铜线/Silver plated Copper
	构成(根/mm)/Composition(No./mm)	7/0.08±0.005
	标称直径/NOM. O. D	0.24±0.01
绝缘层 /Insulation	材料/Material	聚全氟乙丙烯/FEP
	标称外径/NOM. O. D	0.7±0.03
	颜色/Color	Natural
编织层/Braid Shield	材料/Material	镀锡铜线 Tinned copper
	构成/Composition	16/4/0.05±0.005
	遮蔽率/ Shielding rate	≥90%
	标称直径/NOM. O. D	0.92±0.03
护套/Jacket	材料/Material	聚全氟乙丙烯/FEP
	标称外径/NOM. O. D	1.13±0.05
	颜色/Color	/

3. 电气特性(20℃时)/Electrical Properties(at 20℃)

项目/Item	单位/Unit	详细资料/Details	
电容/Capacitance	pF/m	98	
特性阻抗/Conductor Resistance	Ω	50±3.0	
耐压强度/Dielectric Strength	A. C V/lmin	1000	
最大工作频率/Max. oper. frequency	MHz	6000	
抗拉强度/Tensile strength	kgf/mm²	1.76	
工作温度范围/Operating Temp.	℃	-55to200	
衰减/Attenuation	/	频率 /Frequency (MHz)	dB/1m
		1000	≤2.23
		2000	≤3.15
		3000	≤3.96
		4000	≤4.6
		5000	≤5.15
		6000	≤5.7
驻波比/Standing wave (0-6GHz)	/	≤1.4	

REV. / ECK. NO.	LOCAS.	DESCRIPTION	DATE	DESIGN
A1		端子外壳喇叭口修圆形	2015.07.02	SQL
A2		端子外壳电镀更改为侧点 (距离喇叭口轮廓1.5mm位置)	2015.09.21	SQL



NOTES:

1) MATERIAL:

- Housing Material: PA66, Black
Thermoplastics UL 94V-0, 30%G/F FILLED
- Terminal Material: Copper Alloy
- Contact Material: Copper Alloy
- Applicable Cable: 1.13mm

2) FINISH:

- CONTACT: GOLD PLATING ON OVER ALL 1.5u"MIN
NICKEL UNDERPLATING OVER ALL 50U"-80"
- SHELL: NICKEL PLATING ON OVER ALL 1.5u"MIN.
NICKEL UNDERPLATING OVER ALL 50U"-80"

名称	料号		
3 外壳	T1182-0360R	镀金1.5U" (浸镀) 镀镍底50-80U"	1PCS
2 端子	T1192-0140R	镀金1.5U" 镀镍底50-80U"	1PCS
1 主体	HPX01N-1A1-BX00-H	PA66无卤 黑色	1PCS

COPLIANCE WITH THE REQUIEMENT ☒ RoHS ☐ HF ☐ SONY00259 ☐ OTHER
* NO USING RESTRICTED AND BANNED SUBSTANCE

DIM	TOL	DIM	TOL
X	±0.20	X'	±4.0'
X.X	±0.15	X.X'	±3.0'
X.XX	±0.10	X.XX'	±2.0'

HJ-Tech 东莞市皇捷通讯科技有限公司

DRAW NO.		DATE	DRAW NAME:
DESIGN:	SQL	2015.09.21	A1 1.13 线端(内置高仿)镀金
CHECK:			FILE:
APPROVED:			MODEL:
			REV. A0 SCALE N/A
			UNIT: mm SHEET: N/A