

承 认 书

SPECIFICATION FOR APPROVAL

供应商名称 东莞市皇捷通讯科技有限公司

物料名称/PRODUCT Dual-band WIFI antenna

供应商型号/SUPPLIER NO. : 3N0101BK-016

鼎科物料代码/TOP-TECH NO. : A755PEX2416L

鼎科规格描述
TOP-TECH DESCRIPTION: 2.4g 5G dual-band WIFI antenna IPEX WIFI dual-copper tube
antenna gain 2dBi wire length 430mm $\pm$ 5mm antenna length
490.5mm $\pm$ 7mm black silver-tin wire

鼎科承认栏 TOP-TECH APPROVAL			供应商承认栏 SUPPLIER APPROVAL		
质量部 QUALITY	工程部 R&D	安规 SAFTY	核准 APPROVED	检验 CHECKED	承办 DRAWING
				何修明	S.He

公司:深圳市鼎科实业有限公司

CUSTOMER:Shenzhen TOP-TECH Industrial CO.,LTD

地址: 深圳市南山区中山园路 1001 号 TCL 国际 E 城 E1 栋 4-5 楼

ADD: F4,E1 building ,TCL E city,NO 1001 ZHONGSHAN road,
Nanshan district,SHENZHEN

电话/TEL: 075526742670

传真/FAX: 86-755-26740494

公司:东莞市皇捷通讯科技有限公司

SUPPLIER:DONGGUAN HUANGJIE
COMMUNICATION TECHNOLOGY CO., LTD.

地址: 广东省东莞市寮步镇泉塘泰和路3号

ADD: No.3, Taihe Road, Quantang, Liaobu Town,
Dongguan City, Guangdong Province

电话/TEL: 86-769-83328111

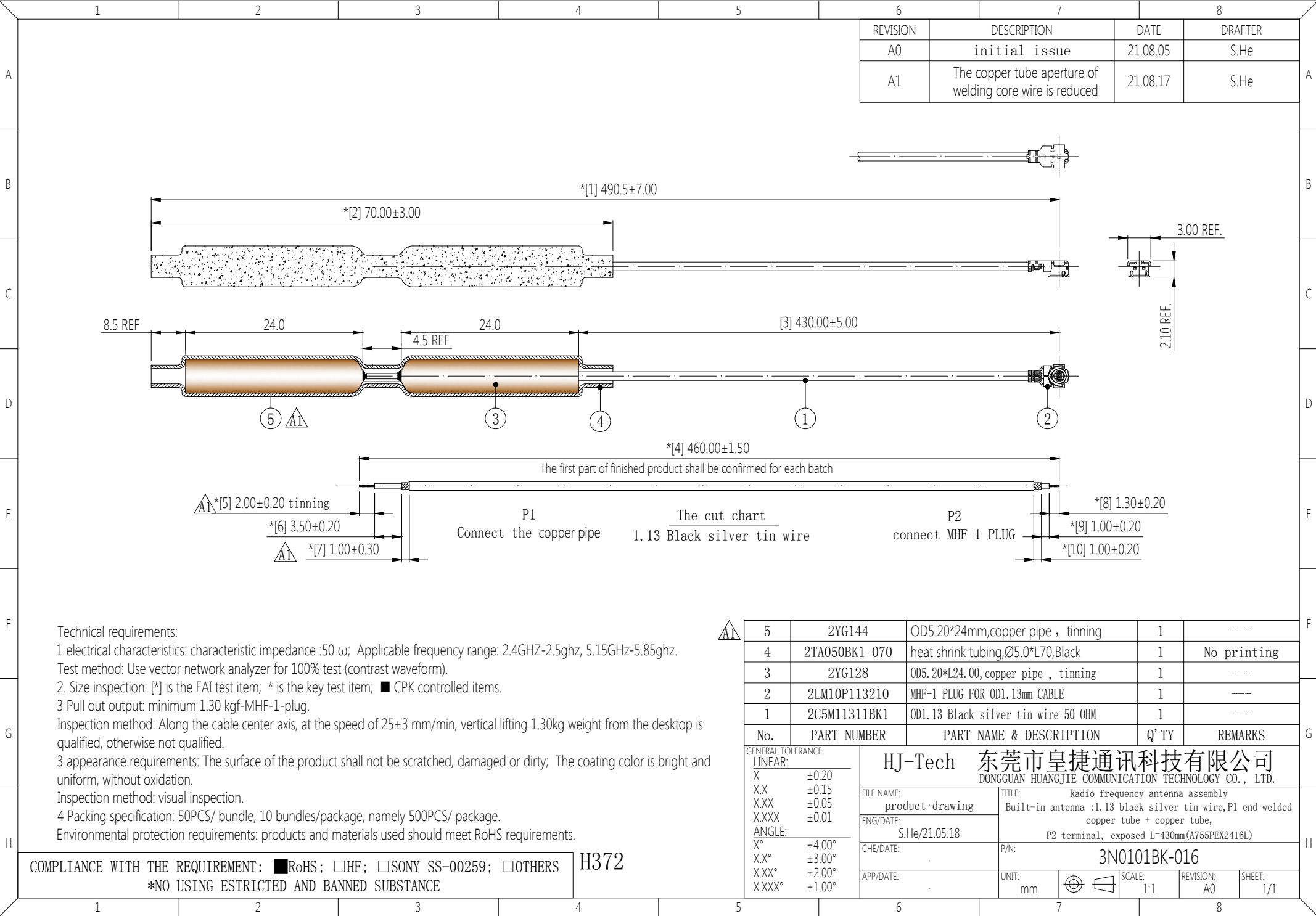
传真/FAX: 86-769-83327688

东莞市皇捷通讯科技有限公司

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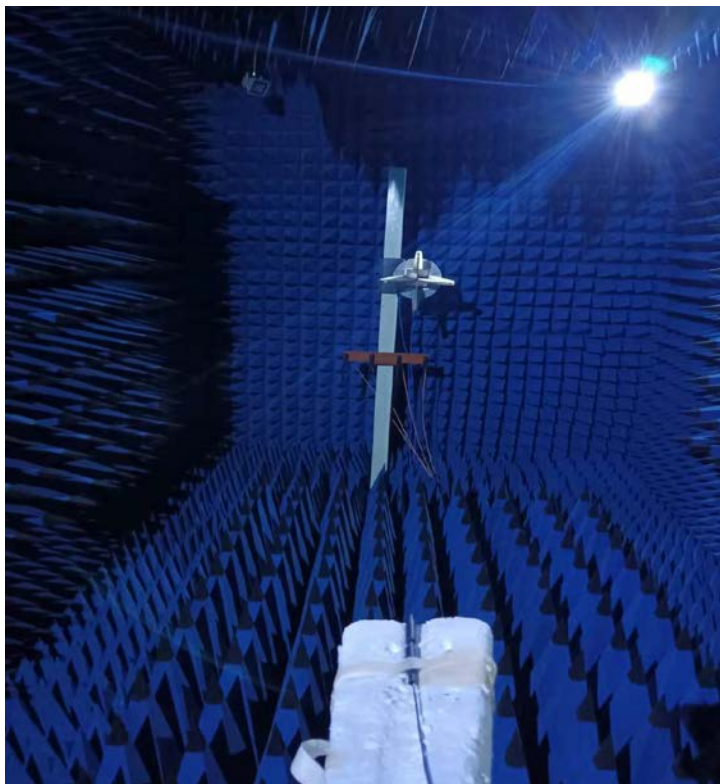
测试图片

Test Picture

The Network analyzer test



Test chart of microwave anechoic chamber





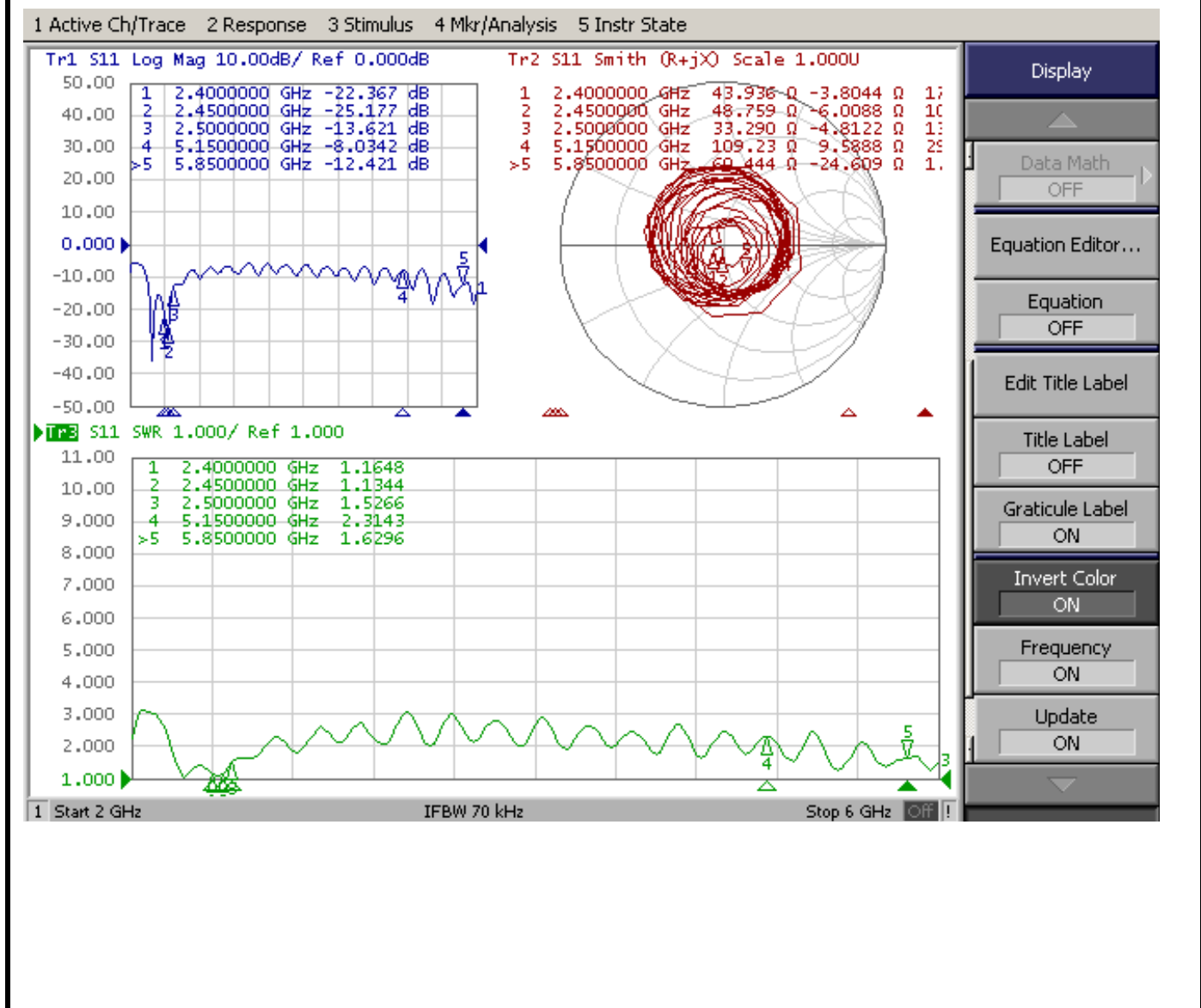
天线电气特性测试报告

Antenna Electrical Characteristic Test Report

文件编号:HJ-QR-Q-22 Rev:A0

产品料号 Part Number:	3N0101BK-016	测试项目 Item	结果判定 Judge
产品名称 Part Name:	Built-in antenna :1.13 black silver tin wire,P1 end welded copper tube + copper tube, P2 terminal, exposed L=430mm(A755PEX2416L)	VSWR 空测	PASS
测试设备 Test Equipment	Network analyzer网络分析仪	2.4G Gain (dBi) 2.58dBi 5G Gain(dBi) 0.97dBi	PASS
测试日期 Test Date	21.06.08		

Antenna test data



审核Checker: 王 俊

测试者Tester: Mark

Antenna Test Report (Passive)

2.4G/5.8G Antenna

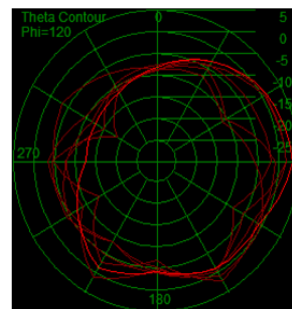
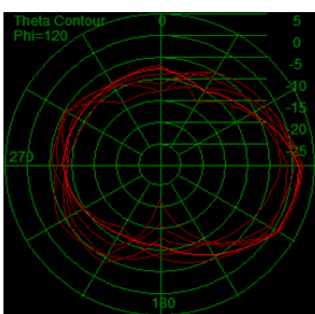
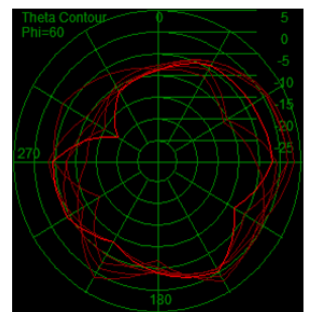
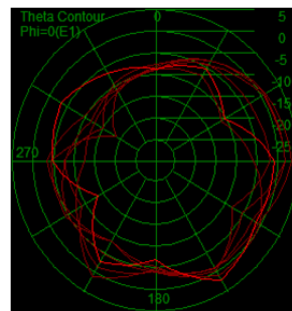
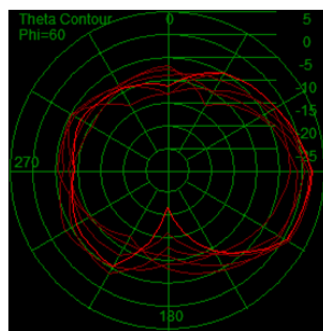
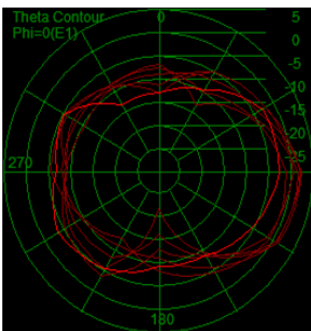
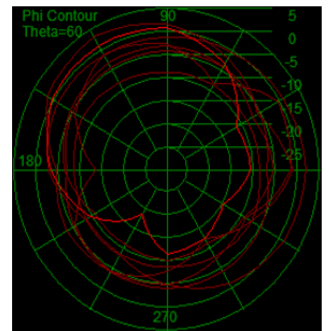
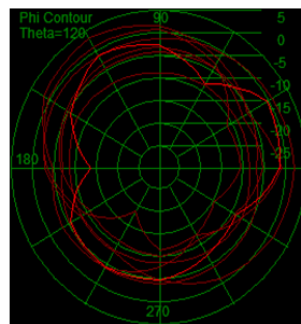
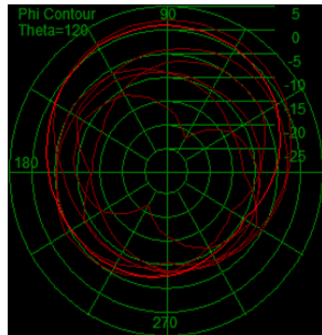
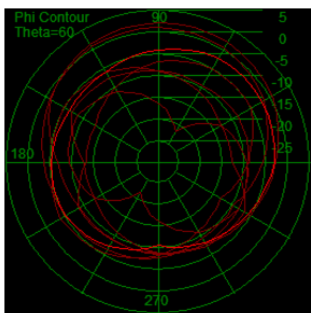
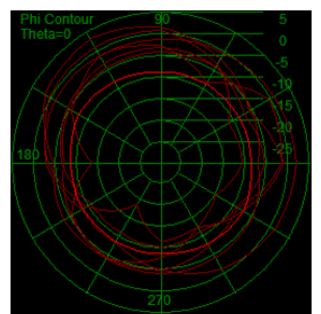
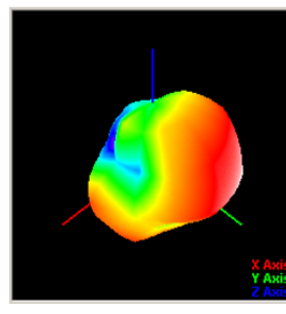
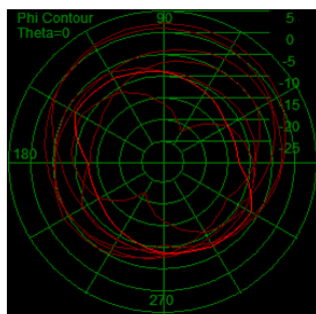
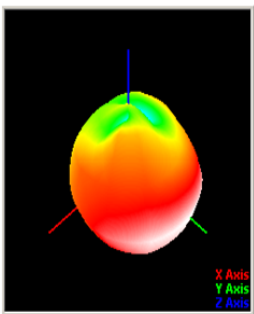
Date:

2021/08/16

Test Point ID	Freq. (MHz)	TRP (dBm)	Gain (dBi)	Directivity (dBi)	Efficiency (%)	Efficiency (dB)	Max (dBm)	Theta of Max	Phi of Max	Min (dBm)	Theta of Min	Phi of Min	AVG (dBm)	Max/Min (dB)	Max/AVG (dB)	Min/AVG (dB)
1	2400.0	2400.00	0.77	5.03	37.4%	-4.27	0.77	90	60	-15.78	180	60	-5.86	16.55	6.63	-9.92
2	2410.0	2410.00	0.72	4.99	37.5%	-4.26	0.72	120	120	-16.60	180	60	-5.78	17.33	6.51	-10.82
3	2420.0	2420.00	1.25	5.06	41.6%	-3.81	1.25	120	120	-17.62	180	60	-5.21	18.87	6.46	-12.41
4	2430.0	2430.00	1.53	5.25	42.4%	-3.73	1.53	90	90	-19.82	180	60	-5.03	21.35	6.55	-14.80
5	2440.0	2440.00	1.91	5.33	45.4%	-3.42	1.91	90	90	-21.70	180	60	-4.74	23.60	6.65	-16.96
6	2450.0	2450.00	2.17	5.57	45.6%	-3.41	2.17	90	90	-21.88	180	60	-4.91	24.04	7.07	-16.97
7	2460.0	2460.00	2.10	5.51	45.6%	-3.41	2.10	90	90	-20.29	180	60	-5.07	22.39	7.17	-15.23
8	2470.0	2470.00	2.32	5.78	45.2%	-3.45	2.32	90	90	-18.85	180	60	-5.24	21.17	7.56	-13.61
9	2480.0	2480.00	2.58	5.92	46.3%	-3.34	2.58	90	90	-17.65	180	60	-5.18	20.23	7.76	-12.48
10	2490.0	2490.00	2.91	6.29	45.9%	-3.38	2.91	90	90	-17.08	180	90	-5.16	19.98	8.07	-11.92
11	2500.0	2500.00	3.12	6.57	45.3%	-3.44	3.12	90	90	-16.86	180	90	-5.02	19.99	8.15	-11.84
12	5100.0	5100.00	1.38	5.29	40.6%	-3.91	1.38	150	30	-17.83	60	240	-4.03	19.21	5.40	-13.80
13	5150.0	5150.00	0.97	5.39	36.2%	-4.41	0.97	90	120	-19.12	60	240	-4.54	20.09	5.51	-14.58
14	5200.0	5200.00	0.87	5.14	37.5%	-4.26	0.87	90	120	-19.38	60	240	-4.50	20.26	5.37	-14.88
15	5300.0	5300.00	2.99	6.13	48.5%	-3.14	2.99	90	120	-17.57	60	240	-3.37	20.56	6.36	-14.20
16	5450.0	5450.00	3.27	6.58	46.6%	-3.32	3.27	90	120	-18.74	60	240	-3.55	22.01	6.82	-15.19
17	5500.0	5500.00	2.90	6.36	45.1%	-3.46	2.90	90	120	-17.02	60	240	-3.73	19.92	6.63	-13.30
18	5600.0	5600.00	0.98	5.78	33.1%	-4.81	0.98	150	0	-16.81	60	240	-5.18	17.78	6.16	-11.63
19	5725.0	5725.00	2.36	6.85	35.6%	-4.48	2.36	150	0	-16.04	60	240	-4.54	18.41	6.91	-11.50
20	5800.0	5800.00	1.90	6.35	35.9%	-4.45	1.90	150	0	-15.60	60	240	-4.63	17.50	6.53	-10.97
21	5825.0	5825.00	2.71	6.35	43.2%	-3.64	2.71	150	0	-14.32	60	240	-3.86	17.03	6.57	-10.46
22	6000.0	6000.00	3.14	6.16	49.8%	-3.02	3.14	150	0	-17.14	90	300	-3.31	20.28	6.45	-13.83

Passive -Freq2450.00MHZ

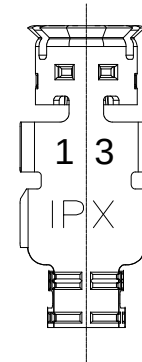
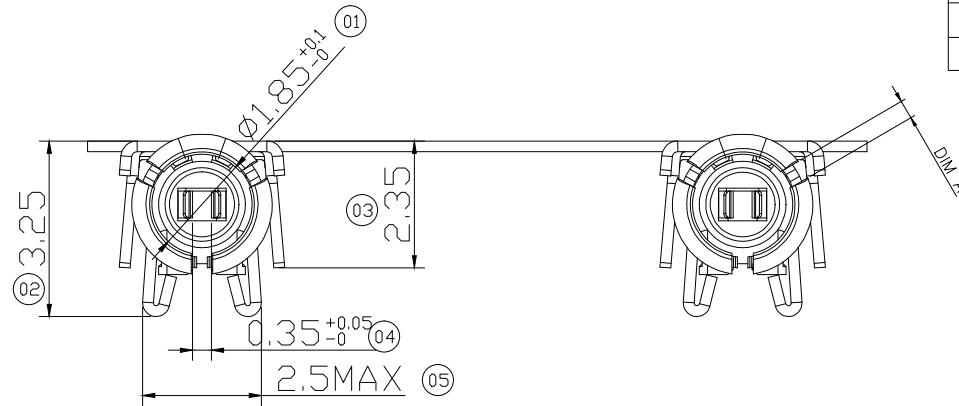
Passive -
Freq5450.00MHZ



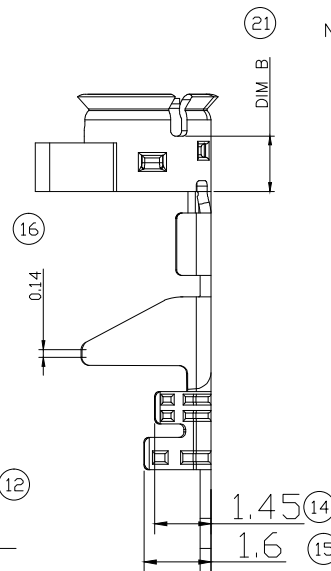
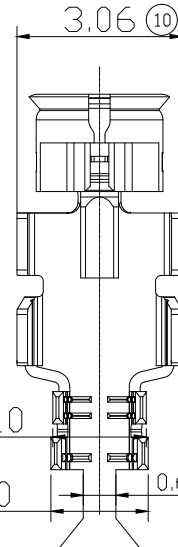
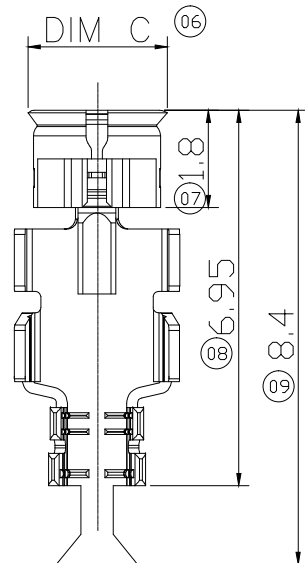
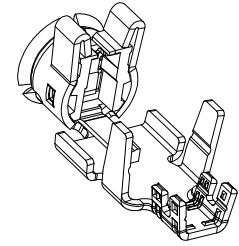
Passive -Freq2450.01MHZ

Passive -
Freq5450.01MHZ

REV.	ECN NO.	LOCAS.	DESCRIPTION	DATE	DESIGN
A0			The first edition released	2012.08.28	Mark

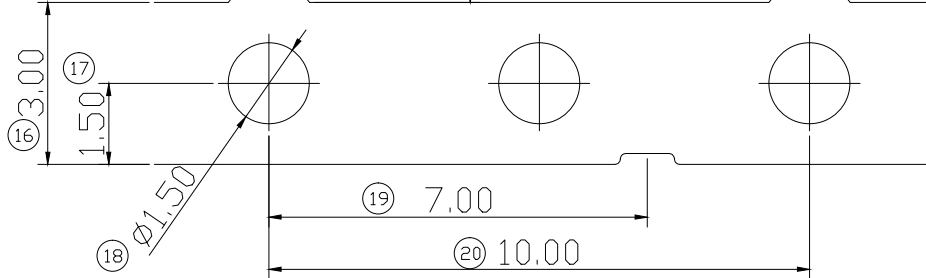


Mark Position



NOTE:

1. 塑胶材料: PBT热塑性塑胶 黑色;
HOUSING MATERIAL: THERMOPLASTIC PLASTIC, UL 94V-0,BLACK;
端子材料: 铜合金, 表面镀金;外壳
CONTACT MATERIAL: COPPER ALLOY, GOLD PLATED ALL OVER;
材料: 铜合金, 表面镀金;
SHELL MATERIAL: COPPER ALLOY, GOLD OR NICKEL PLATED ALL OVER;
2. 产品性能:
PERFORMANCE:
 - 2.1. 接触阻抗: 20mΩ Max.
CONTACT RESISTANCE: 20mΩ Max.
 - 2.2. 耐电压: 200V AC, 1 Minute;
DIELECTRIC WITHSTANDING VOLTAGE: 200V AC FOR 1MINUTE;
 - 2.3. 绝缘阻抗: 500MΩ Min.
INSULATION RESISTANCE: 500MΩ Min.
 - 2.4. 插拔耐久性: 30次 Min.
DURABILITY: 30TIMES Min.
 - 2.5. 公母对插保持力: 5N Min.
DURABILITY: 5N Min.



DIM	TOL	DIM	TOL
X.	±0.30	X'.	±4.0'
X.X	±0.20	X.X'	±3.0'
X.XX	±0.15	X.XX'	±2.0'
X.XXX	±0.10	X.XXX'	±1.0'

HJ-Tech 东莞市皇捷通讯科技有限公司

DRAW NO.		DATE		DRAW NAME:	1.13 I-PEX 1代 (内置高仿)			
DESIGN:	Mark	2012.08.28		FILE:	P/N NO. 2LM10P113210			
CHECK:				MODEL:	UNIT: mm SHEET: N/A			
APPROVED:				REV. A0	SCALE N/A			

客户/Customer:

规 格 书

Specification

RF113 系列

RF113 SERIES

50 Ω 射频电缆

50 Ω Coaxial Cable

东莞市皇捷通讯科技有限公司

DONGGUAN HUANGJIE COMMUNICATION TECHNOLOGY CO., LTD.

DATE : 2017-4-8

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1. 适用范围:

Scope

本规格书制定了 RF113 50 Ω 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 50 Ω 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 $\pm$ 0.005
	标称直径/NOM. O. D	0.24 $\pm$ 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 $\pm$ 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 $\pm$ 0.005
	遮蔽率/ Shielding rate	$\geq$ 90%
	标称直径/NOM. O. D	0.92 $\pm$ 0.03
护套/Jacket	材料/Material	聚全氟乙丙烯/FEP
	标称外径/NOM. O. D	1.13 $\pm$ 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 $\pm$ 3.0	
耐压强度/Dielectric Strength	A. C V/1min	1000	
最大工作频率/Max. oper. frequency	MHz	6000	
抗拉强度/Tensile strength	kgf/mm ²	1.76	
工作温度范围/Operating Temp.	℃	-55to200	
衰减/Attenuation	/	频率 /Frequency (MHz)	dB/1m
		1000	$\leq$ 2.23
		2000	$\leq$ 3.15
		3000	$\leq$ 3.96
		4000	$\leq$ 4.6
		5000	$\leq$ 5.15
		6000	$\leq$ 5.7
驻波比/Standing wave (0-6GHz)	/	$\leq$ 1.4	

东莞市皇捷通讯科技有限公司

DONGGUAN HUANGJIE COMMUNICATION TECHNOLOGY CO., LTD.

DATE : 2017-4-8

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4. 包装 Packing

标准单位包装长度为1000米/盘, 每盘最多允许5个接头, 接头最短长度10米, 在搬运过程中不能损坏包装.

Standard unit for the 1000m/reel length of packaging, each set up to allow 5 joints, the joint shortest length of 10m, The finished cable shall be packed not be damaged during transportation

结构图/Configuration

