

承认书

SPECIFICATION FOR APPROVAL

供应商名称/SUPPLIER:	东莞市皇捷通讯科技有限公司
物料名称/PRODUCT NO. :	天线
供应商型号/SUPPLIER NO. :	3N0102LG-005
汇智/鼎盛物料代码/ Huizhi/Ateko NO. :	A755PEX2401L
汇智/鼎盛规格描述/ Huizhi/Ateko DESCRIPTION:	天线 IPEX wifi 单铜管天线 增益 2dBi 线长 210mm±5mm 天线总长度 260±5mm 灰色 银锡线

汇智/鼎盛承认栏 Huizhi/Ateko 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
杨升	姚林峰		职位: 工程经理	职位: 品质主管	职位: 工程
			姓名: 郭瑞豪	姓名: 陈伟强	姓名: 梁志华

公司: 惠州市汇智科技有限公司
CUSTOMER: Huizhou Huizhi Technology Co.,Ltd
地址: 惠州大亚湾泰宏工业园 C1 栋三楼
ADD: Third floor,building C1,Taihong Industrial,Daya Bay,Huizhou
电话/TEL: 0755-26740460
公司: 深圳市鼎盛光电有限公司
CUSTOMER: Shenzhen Ateko Photoelectricity Co.,Ltd
地址: 深圳市宝安区沙井街道黄埔社区镇头路黄埔润和工业园 F 栋
Building F,Huangpu Runhe Industrial Park,Zhentou
ADD: Road,Huangpu Community,Shajing Sub-district,Bao'an District,Shenzhen
电话/TEL: 0755-81446315

公司: 东莞市皇捷通讯科技有限公司
CUSTOMER: DONGGUAN HUANGJIE COMMUNICATION TECHNOLOGY CO., LTD.
地址: 东莞市寮步镇泉塘村大蚬地工业区泰和路 3 号
No.3 Taihe Road, Daxiandi Industrial Zone, Quantang Village, Liaobu Town, Dongguan City
电话/TEL: 0769-83328111

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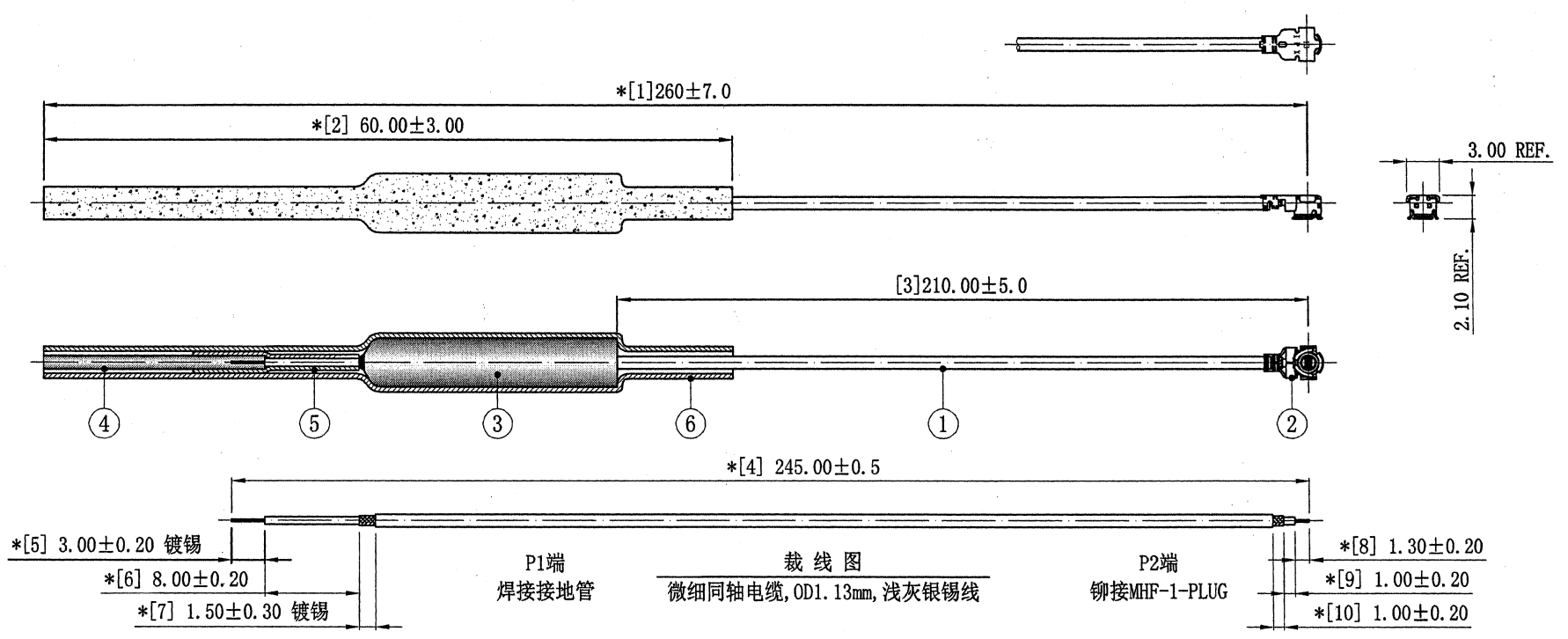
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1	2	3	4	5	6		7		8	
					REVISION	DESCRIPTION		DATE	DRAFTER	
					A0	首次发行		21. 01. 16	S. He	



技术要求:

1 电气特性: 特性阻抗: 50Ω; 适用频率范围: 2.4GHz-2.5GHz; 驻波比: 最大2.00。
检验方法: 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 拔出力: 最小1.30kgf @ MHF-1-PLUG。
检验方法: 沿电缆中心轴, 以25±3毫米/分钟的速度, 垂直将1.30kg砝码提高桌面即为合格, 反之不合格。

3 外观要求: 产品表面不得有刮伤、破损和脏污; 镀层色泽光亮均匀, 不得有氧化。
检验方法: 目视全检验。

4 包装规范: 50PCS/扎, 10扎/包, 即500PCS/包。

5 环保要求: 产品及其使用之物料皆需要符合RoHS要求。

6	2TA040BK1-060	热缩套管, 单壁普通型, EVA, Ø4.0*Ø60, 黑色	1	---
5	2TA015BK1-015	热缩套管, 单壁普通型, EVA, Ø1.5*Ø15, 黑色	1	---
4	2YG022	信号柱, Ø1.20*Ø20.00, 黄铜, 表面除油	1	---
3	2YG013	接地管, 抽芯焊锡式, Ø4.4*Ø23*Ø1.3, 铜镀锡	1	---
2	2LM10P113210	MHF-1 PLUG FOR Ø1.13mm CABLE	1	---
1	2C5M11311LG1	微细同轴电缆, Ø1.13mm, 浅灰银锡线	1	依裁线图裁线
No.	PART NUMBER	PART NAME & DESCRIPTION	Q'TY	REMARKS

GENERAL TOLERANCE: LINEAR: X ±0.20 X.X ±0.15 X.XX ±0.05 X.XXX ±0.01 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/19.04.15		内置天线, 1.13浅灰银锡线, P1端焊接铜管+铜柱, P2端打一代端子, 裁线长245mm, 总长260mm	
CHE/DATE:		P/N: 3N0102LG-005	
APP/DATE:		UNIT:	SCALE: REVISION: SHEET:

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

H372



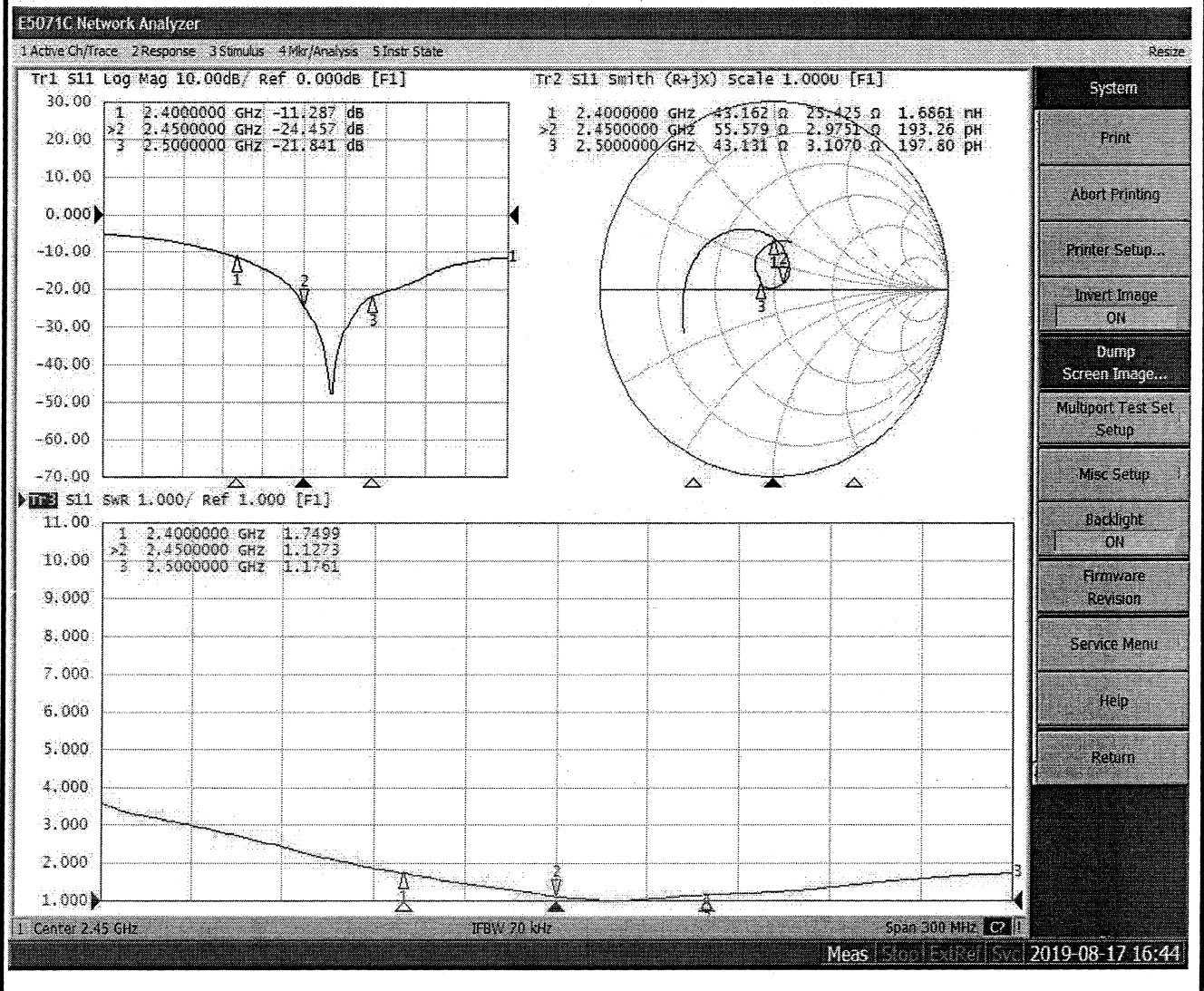
天线电气特性测试报告

Antenna Electrical Characteristic Test Report

文件编号:HJ-QR-Q-22 Rev:A0

产品料号 Part Number:	3N0102LG-005	测试项目 Item	结果判定 Judge
产品名称 Part Name:	内置天线,1.13浅灰色银锡线,P1端焊接铜管+铜柱,P2端打一代端子,裁线长245mm,总长260mm	VSWR ≤ 2.0	PASS
测试设备 Test Equipment	Network analyzer网络分析仪	Gain (dBi) 2 dBi	PASS
测试日期 Test Date	8/16/2019		

Antenna test data

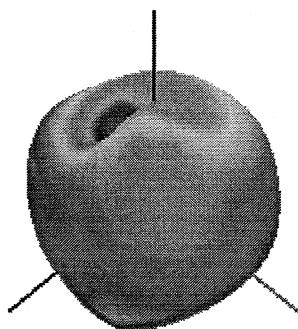


审核Checker: 王俊

测试者Tester: Mark

Radiation

2400 MHz

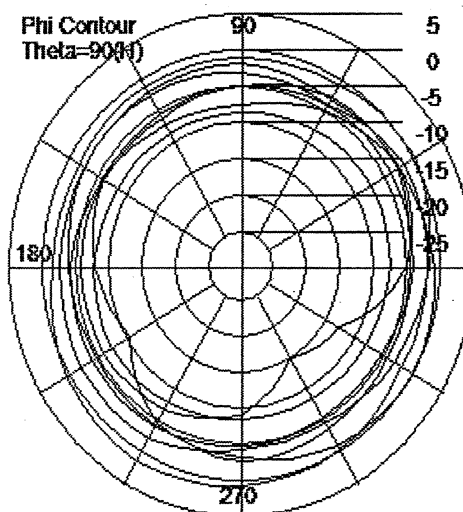


X Axis
Y Axis
Z Axis



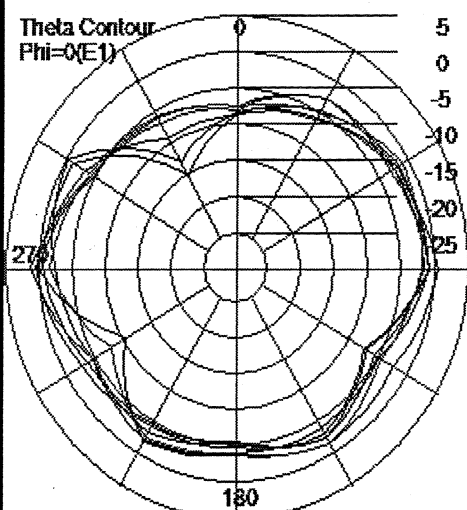
2400 MHz H

Phi Contour
Theta=90(H)



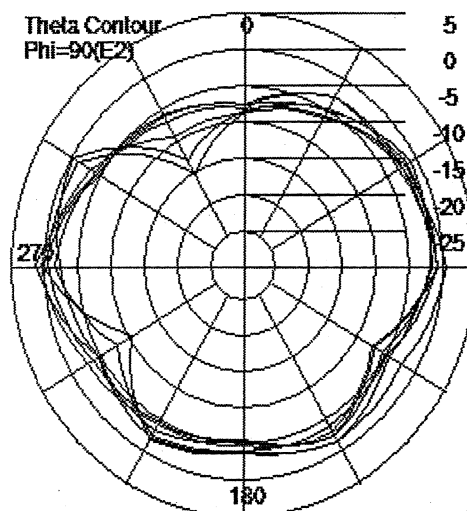
2400 MHz E1

Theta Contour
Phi=0(E1)



2400 MHz E2

Theta Contour
Phi=90(E2)

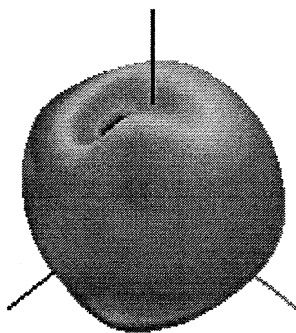


审核Checker: 王俊

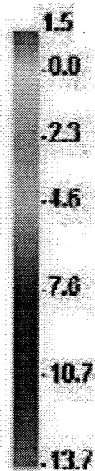
测试者Tester: Mark

Radiation

2450 MHz

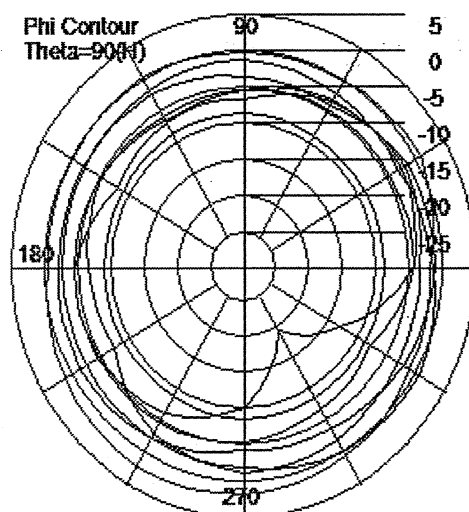


X Axis
Y Axis
Z Axis



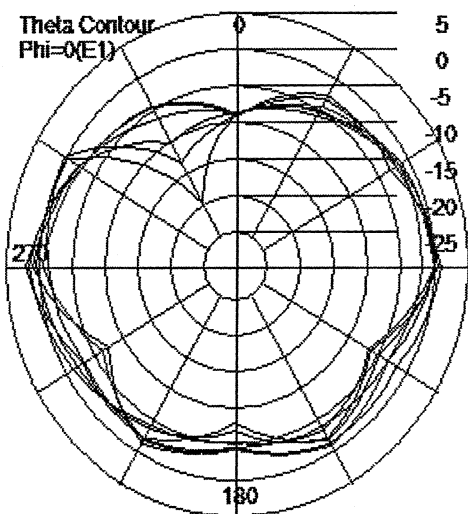
2450 MHz H

Phi Contour
Theta=90(φ)



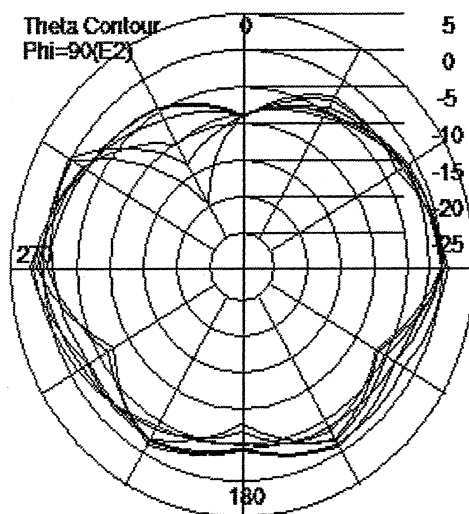
2450 MHz E1

Theta Contour
Phi=0(E1)



2450 MHz E2

Theta Contour
Phi=90(E2)

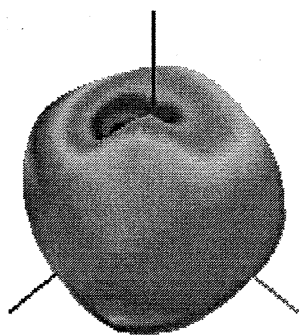


审核Checker: 王俊

测试者Tester: Mark

Radiation

2500 MHz

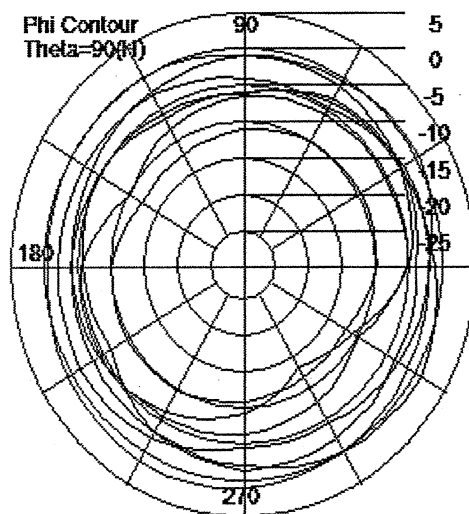


X Axis
Y Axis
Z Axis



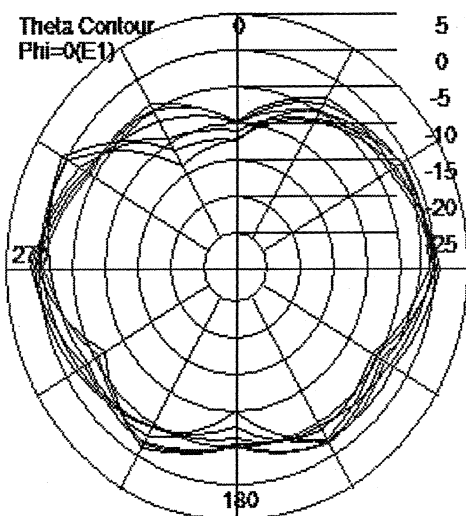
2500 MHz H

Phi Contour
Theta=90(H)



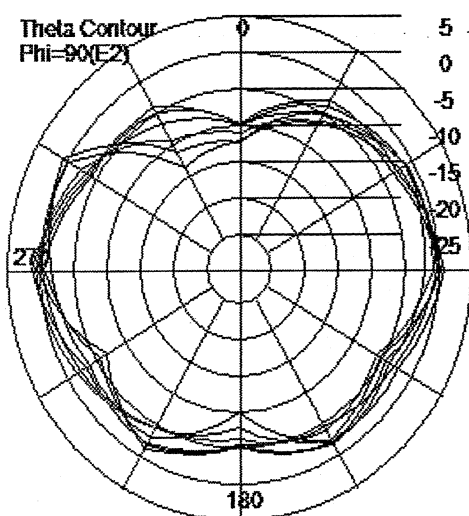
2500 MHz E1

Theta Contour
Phi=0(E1)



2500 MHz E2

Theta Contour
Phi=90(E2)



审核Checker: 王俊

测试者Tester: Mark

No-source test data

Test Point ID	Freq. (MHz)	Gain (dBi)	Efficiency (%)
<u>1</u>	2400.0	1.21	69.6%
<u>2</u>	2410.0	1.36	72.2%
<u>3</u>	2420.0	1.87	78.2%
<u>4</u>	2430.0	2.0	79.0%
<u>5</u>	2440.0	1.21	80.8%
<u>6</u>	2450.0	1.04	80.0%
<u>7</u>	2460.0	1.83	78.6%
<u>8</u>	2470.0	1.64	77.8%
<u>9</u>	2480.0	1.40	76.9%
<u>10</u>	2490.0	1.30	77.4%
<u>11</u>	2500.0	1.32	77.7%
<u>12</u>	--	--	--

审核Checker: 王俊

测试者Tester: Mark

江阴凯博通信科技有限公司

JiangYin KaiBo Communication Technology CO.,LID.

DATE : 2017-4-8

Page: 2 to 3

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:

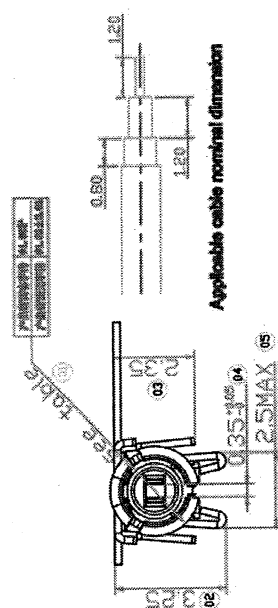
单位/Unit:mm

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	/

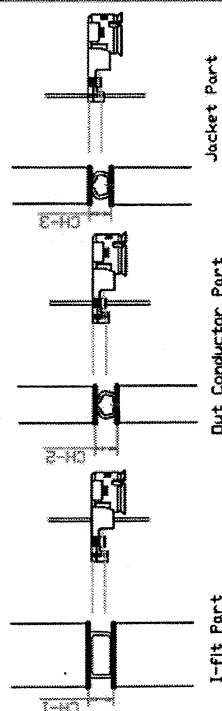
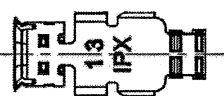
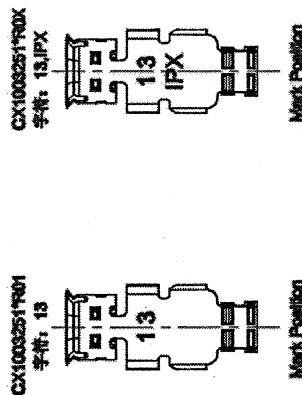
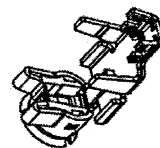
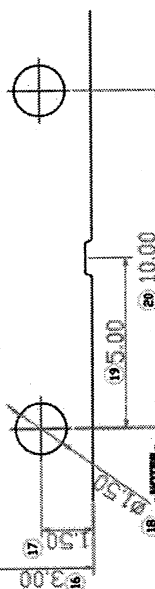
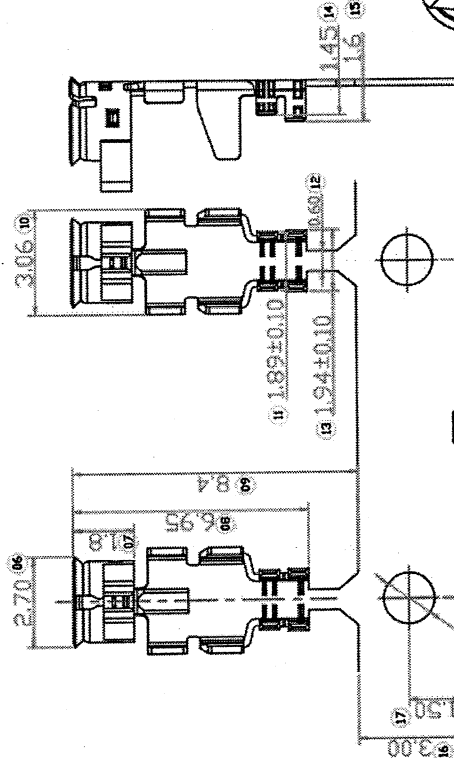
3. 电气特性(20℃时)/Electrical Properties(at 20℃)

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/lmin	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	

AUTOCAD GENERATED DRAWING, DON'T CHANGE BY HAND



Appliqueable cable nominal dimension



CH-1	1.35-1.50
CH-2	1.08-1.14
CH-3	1.15-1.35

[illegible][illegible]

1) INITIAL TN : AFTER 30 CYCLES IN
2) MATING AND UNMATING PERIOD INITIAL 5-12N
AFTER 30 CYCLES IN MATING PERIOD (5-12N)

1) INITIAL TN : AFTER 30 CYCLES IN
2) MATING AND UNMATING PERIOD INITIAL 5-12N
AFTER 30 CYCLES IN MATING PERIOD (5-12N)