



深圳市雨盛通讯电子有限公司

Shenzhen Yu Sheng Communications Electronics co., LTD

TEL: +86 0755-28640107

FAX: +86 0755-28694967

承认书 APPROVAL

版本: A1

客 户
CUSTOMER:

品 名 规 格
DESCRIPTION: 2.4G 扁型天线
2.4G flat antenna

料 号
PART NO.: YS030-0105

客 户 料 号
CUS PART NO.:

日 期
D A T E: 2025-01-07

呈样签章:

工 程 ENGINEERING DEPARTMENT	品 保 Q C DEPARTMENT	业 务 SALES DEPARTMENT

客户承认签章 :

工 程 ENGINEERING DEPARTMENT	品 保 Q C DEPARTMENT	采 购 PURCHASING DEPARTMENT

※ 客户确认样品附意栏:



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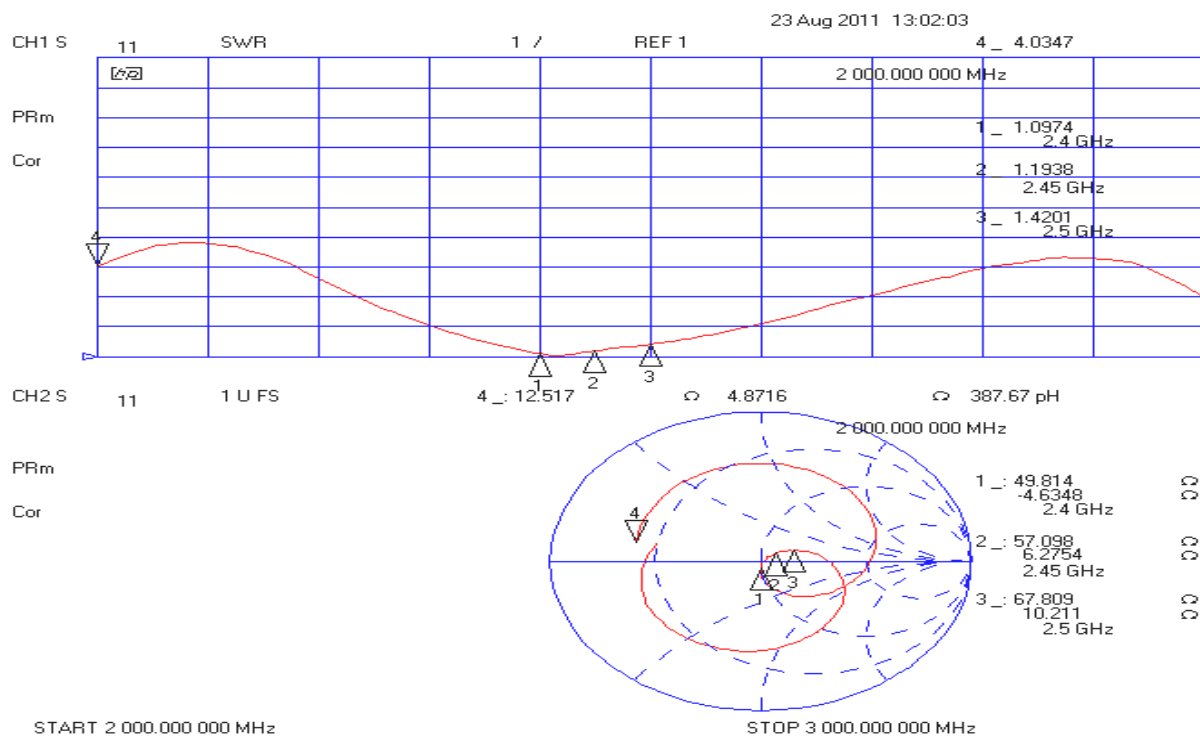
电器技术参数

电 性 能 指 标		Electrical Specifications	
频率范围	2400-2500MHZ	Frequency Range	2400-2500MHZ
电压驻波比	≤2.0	VSWR	≤2.0
增益	2.69DBI	GAIN	2.69DBI
输入阻抗	50 Ω	Input Impedance	50 Ω
机 械 指 标		Mechanical Specifications	
天线颜色	白色	Antenna Color	WHITE
接口形式	IPEX 端子	Input connector	IPEX1.13
天线长度	200mm	Cable length	200mm
工作温度	-40℃~+85℃	Working Temperature	-40℃~+85℃
工作湿度	20~80%	Working Humidity	20~80%

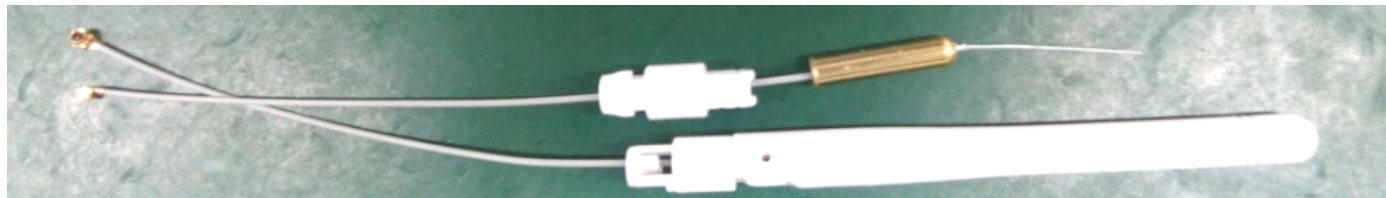
环境性能测试:

项目	测试条件	规格
储存环境	在没有指定的情况下测试温度、湿度、气压如下: 1. 温度为-30℃~+80℃ 2. 相对湿度为45%-85% 3. 气压为86kpa-106kpa	电气机械性能正常
高低温试验	在70℃与40℃之间进行5次循环,然后在正常条件下 1-2H,检查外观质量。	尺寸应满足规定并应 满足满足 于机械、电气性能
耐恒定湿热 试验	相对湿度95±3%,试验温度:40℃.持续2H作用后, 试品取出后5min之内测定电气性能,试品在正常条 件下1-2H,检查外观质量	尺寸应满足规定并应 满足满足 于机械、电气性能
振动试验	振频范围10-55HZ,位移幅值:0.35MM,加速度幅值: 50.0M/S,扫频循环次数:30次	电气机械性能正常
跌落试验	1M高空按照互相垂直的轴方向自由跌落3次	电气机械性能正常

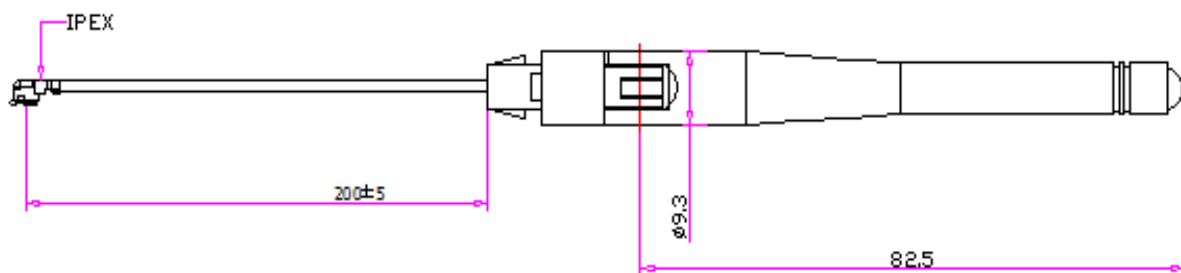
网络分析测试:



天线图片:

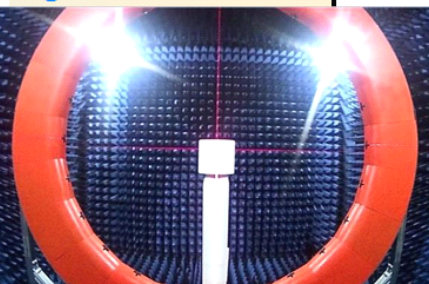
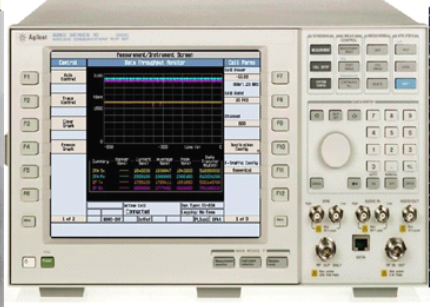
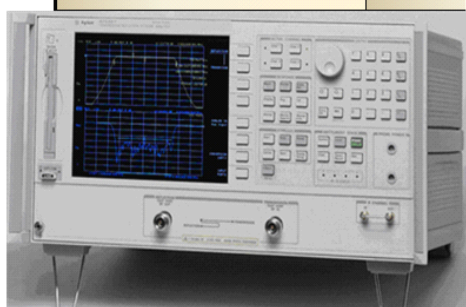


结构图:

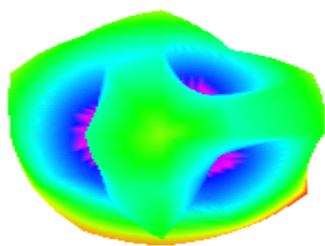


● 测试项目与设备

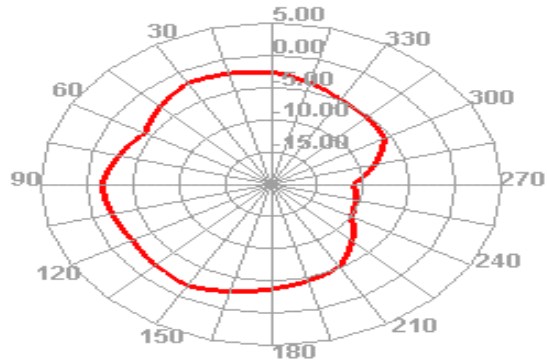
	测试项目	设备
1. S参数	1. 回波损耗 2. 驻波比	网络分析仪: Agilent E5071B
2. 耦合功率测试	1. 发射功率 2. 接收灵敏度	GSM 测试仪: Agilent 8960 E5515C LTE /WIFI/BT测试仪: R&S CMW500
3. 辐射模式与增益	1. 辐射模式 2. 天线增益	1. 暗室: 8x4x4 m (3D) 2. 网络分析仪: Agilent E5071B



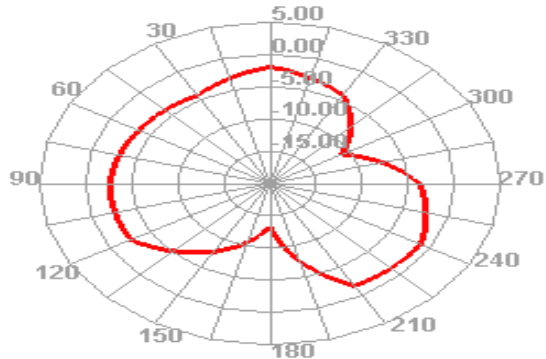
2400.000MHz



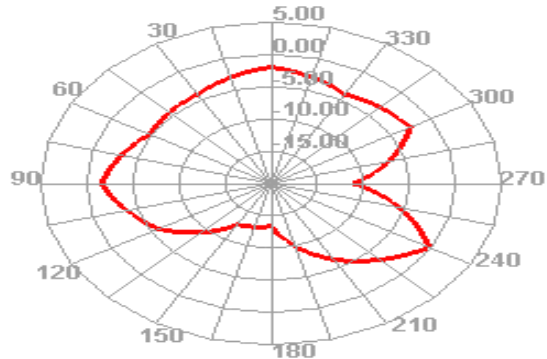
2400.000MHz H



2400.000MHz E1



2400.000MHz E2





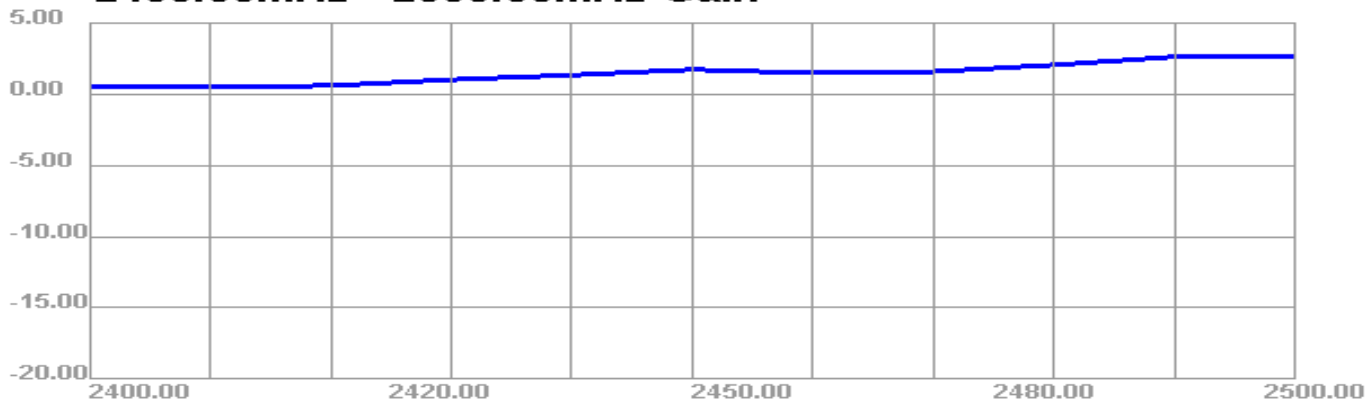
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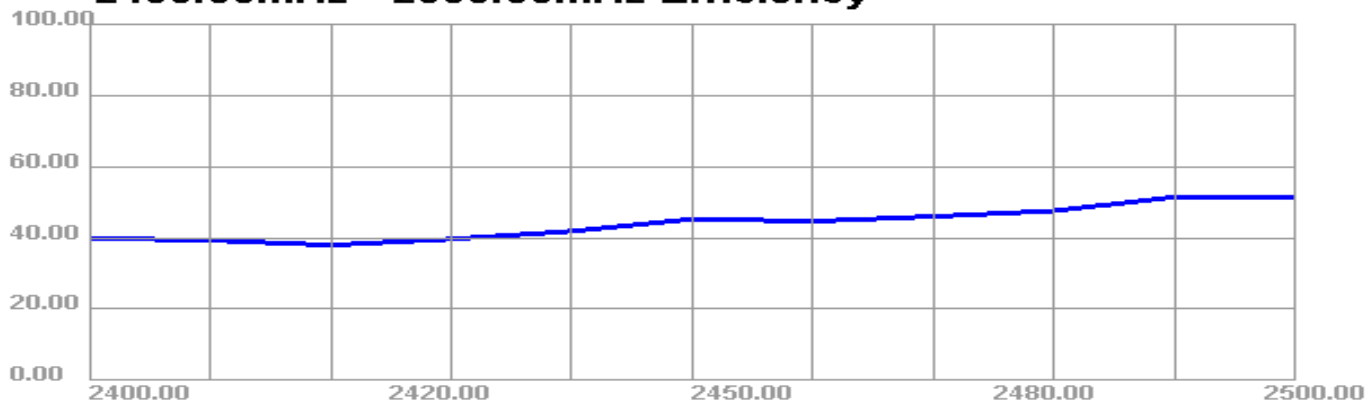
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2400.00MHz - 2500.00MHz Gain



2400.00MHz - 2500.00MHz Efficiency



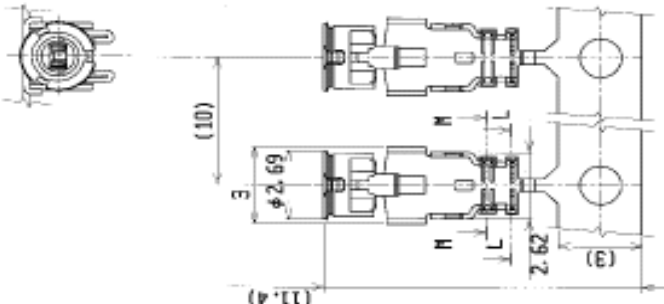
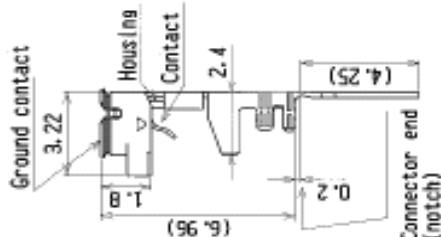
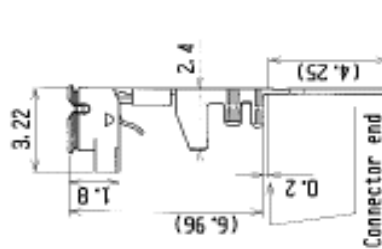
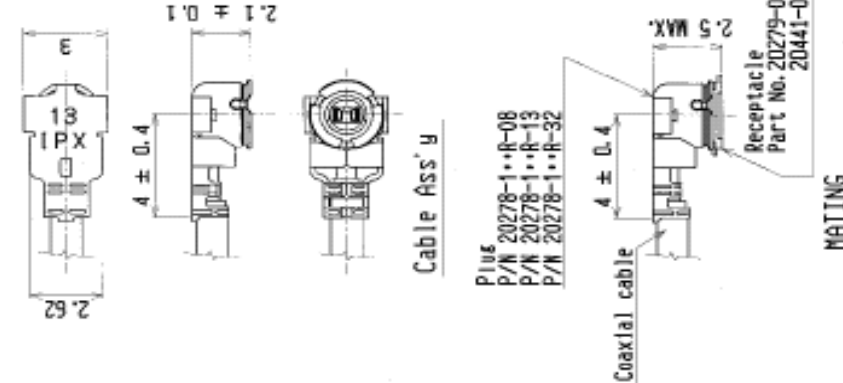
Passive Test For WIFI												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	39.9	-3.99	0.52	-1.63	16.108	23.797	0.52	-13.42	4.51	60	43.91	43.89
2410	39.32	-4.05	0.51	-1.64	15.992	23.328	0.51	-13.61	4.56	60	44.05	43.95
2420	37.97	-4.21	0.6	-1.55	15.669	22.298	0.6	-14.15	4.8	150	43.94	43.81
2430	39.67	-4.01	1.01	-1.14	16.61	23.065	1.01	-15.14	5.03	120	44.07	43.87
2440	41.87	-3.78	1.33	-0.82	17.871	24.001	1.33	-16.2	5.12	120	44.39	44.15
2450	45.28	-3.44	1.72	-0.43	19.717	25.565	1.72	-15.97	5.16	120	44.63	44.34
2460	44.68	-3.5	1.47	-0.68	19.873	24.811	1.47	-16.74	4.97	120	44.63	44.43
2470	46.01	-3.37	1.57	-0.58	20.954	25.061	1.57	-17.79	4.95	120	44.56	44.29
2480	47.58	-3.23	2.05	-0.1	22.246	25.334	2.05	-19.85	5.27	60	44.67	44.37
2490	51.46	-2.89	2.62	0.47	24.645	26.814	2.62	-20.28	5.5	0	44.7	44.46
2500	51.32	-2.9	2.69	0.54	25.073	26.244	2.69	-22.69	5.59	0	44.59	44.18

工厂地址：深圳市龙岗区横岗镇坳背一村坳西路 102 号 3-4 楼

Factory Address: 3rd-4th Floor, No. 102, Aoxi Road, Aobei Village, Henggang Town, Longgang District, Shenzhen

Material Data Sheet

MHF Connector

PART NO. 20278-111R-08		 Ground contact Housing Contact Connector end (notch) Part No. 20278-101R-08 20278-102R-08 20278-101R-13 20278-102R-13 20278-101R-32 20278-102R-32 For hand tool (with notch)	 Connector end Part No. 20278-111R-08 20278-112R-08 20278-111R-13 20278-112R-13 20278-111R-32 20278-112R-32 For seal auto termination machine (without notch)	 13 IPX Cable Assy Plus P/N 20278-11R-08 P/N 20278-11R-13 P/N 20278-11R-32 Coaxial cable Receptacle Part No. 20279-001E-01 20441-001E-01 MATING	<table border="1"> <tr> <td>REV</td> <td>DATE</td> <td>DESIGN BY</td> <td>DATE</td> </tr> <tr> <td>10C</td> <td>2003/06</td> <td>K. O. (Jai/10/08)</td> <td>JUN/13/01</td> </tr> <tr> <td>11C</td> <td>2003/06</td> <td>K. O. (Jai/10/08)</td> <td>JUN/13/01</td> </tr> <tr> <td>12C</td> <td>2003/06</td> <td>K. O. (Jai/10/08)</td> <td>JUN/13/01</td> </tr> <tr> <td>13C</td> <td>2003/06</td> <td>K. O. (Jai/10/08)</td> <td>JUN/13/01</td> </tr> <tr> <td>14C</td> <td>2003/06</td> <td>K. O. (Jai/10/08)</td> <td>JUN/13/01</td> </tr> <tr> <td>15C</td> <td>2003/06</td> <td>K. O. (Jai/10/08)</td> <td>JUN/13/01</td> </tr> <tr> <td>16C</td> <td>2003/06</td> <td>K. O. (Jai/10/08)</td> <td>JUN/13/01</td> </tr> <tr> <td>17C</td> <td>2003/06</td> <td>K. O. (Jai/10/08)</td> <td>JUN/13/01</td> </tr> <tr> <td>18C</td> <td>2003/06</td> <td>K. O. (Jai/10/08)</td> <td>JUN/13/01</td> </tr> <tr> <td>19C</td> <td>2003/06</td> <td>K. O. (Jai/10/08)</td> <td>JUN/13/01</td> </tr> </table> REV. RECORD SERIES No. 2814 CUSTOMER COPY DATE JUN/13/01 PROJECTION SCALE 6/1 mm UNIT mm 20278 General Interconnect and Protection Electronics TOKYO, JAPAN General 1/4 19C	REV	DATE	DESIGN BY	DATE	10C	2003/06	K. O. (Jai/10/08)	JUN/13/01	11C	2003/06	K. O. (Jai/10/08)	JUN/13/01	12C	2003/06	K. O. (Jai/10/08)	JUN/13/01	13C	2003/06	K. O. (Jai/10/08)	JUN/13/01	14C	2003/06	K. O. (Jai/10/08)	JUN/13/01	15C	2003/06	K. O. (Jai/10/08)	JUN/13/01	16C	2003/06	K. O. (Jai/10/08)	JUN/13/01	17C	2003/06	K. O. (Jai/10/08)	JUN/13/01	18C	2003/06	K. O. (Jai/10/08)	JUN/13/01	19C	2003/06	K. O. (Jai/10/08)	JUN/13/01
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Part No. of non halogen free type	20278-101R-08	20278-111R-08	20278-101R-13	20278-111R-13	20278-101R-32	20278-111R-32	20278-101R-18	20278-111R-18
Part No. of halogen free type	20278-102R-08	20278-112R-08	20278-102R-13	20278-112R-13	20278-102R-32	20278-112R-32	20278-102R-18	20278-112R-18
Housing color	White	White	Black	Black	Black	Black	White	White
Applicable cable nominal dimension	2.09±0.1 1.25±0.1 1.16±0.1	2.09±0.1 1.25±0.1 1.16±0.1	2.09±0.1 1.25±0.1 1.16±0.1	2.09±0.1 1.25±0.1 1.16±0.1	2.09±0.1 1.25±0.1 1.16±0.1	2.09±0.1 1.25±0.1 1.16±0.1	2.09±0.1 1.25±0.1 1.16±0.1	2.09±0.1 1.25±0.1 1.16±0.1
Jacket	Outer conductor silver or tin plating	Outer conductor silver or tin plating	Outer conductor silver or tin plating	Outer conductor silver or tin plating	Outer conductor silver or tin plating	Outer conductor silver or tin plating	Outer conductor silver or tin plating	Outer conductor silver or tin plating
Dielectric core	Inner conductor silver plating	Inner conductor silver plating	Inner conductor silver plating	Inner conductor silver plating	Inner conductor silver plating	Inner conductor silver plating	Inner conductor silver plating	Inner conductor silver plating
Blade shield of Outer conductor	Single / 1層構造	Single / 1層構造	Single / 1層構造	Double / 2層構造	Single / 1層構造	Double / 2層構造	Single / 1層構造	Double / 2層構造
P/N of hand Tool	90187-008C	90187-013C	90187-013C	90187-032C	90187-032C	90187-032C	90233-018	90233-018
P/N of seal auto termination machine	90213-008C	90213-013C	90213-013C	90213-032C	90213-032C	90213-032C	90252-018	90252-018
Sect. M-M	1.68 1.12	2.24 1.46	2.24 1.46	2.29 1.56	2.29 1.56	2.29 1.56	2.71 1.9	2.71 1.9
Sect. L-L	1.72 1.19	2.28 1.55	2.28 1.55	2.37 1.71	2.37 1.71	2.37 1.71	3.1 2.26	3.1 2.26
Crimp Height	CH-1 CH-2 CH-3	1.34~1.40 0.76~0.84 0.85~0.97	1.34~1.40 1.06~1.14 1.15~1.35	1.34~1.40 1.20~1.30 1.26~1.46	1.34~1.40 1.20~1.30 1.26~1.46	1.34~1.40 1.20~1.30 1.26~1.46	1.34~1.40 1.41~1.49 1.70~1.80	1.34~1.40 1.41~1.49 1.70~1.80

Cable cut length

Crimp Height

CH-1

CH-2

CH-3

Outer conductor part

Jacket part

1-ft part

Blade Micrometer

I-PEX Interconnect and Protective Electrodes		General	
TITLE	REV	DATE	REVISION
MF series alloy coaxial connector plus vertical (ground contact : sold station)	3/4	20278	19C
SCALE	UNIT	mm	
CUSTOMER COPY	REV. RECORD	SERIES No.	2814
DESIGN D BY	DATE	CHK D BY	DATE
APP D BY	DATE	REV ECN BY	DATE
APP	DATE	REV. RECORD	DATE

NOTE-1

中心導体、外部導体への半田コテイングは不可

Must not use solder coated

inner conductor and outer conductor.

工厂地址：深圳市龙岗区横岗镇坳背一村坳西路 102 号 3-4 楼
Factory Address: 3rd-4th Floor, No. 102, Aoxi Road, Aobei Village, Henggang Town, Longgang District, Shenzhen