



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:

**2.4G2DB 下节带扣白色天线出线 200**

料 号  
PART NO.:

YS020-0036

客 户 料 号  
CUS PART NO.:

日 期  
D A T E:

2018-9-19

呈样签章:

工 程 ENGINEERING DEPARTMENT	品 保 Q C DEPARTMENT	业 务 SALES DEPARTMENT
彭松林	田青	胡雨云
Mobile:15919867625	Mobile:18928443951	Mobile:18024560127

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	$\leq 2.0$	VSWR	$\leq 2.0$
增益	2.5DBI	GAIN	2.5DBI
输入阻抗	50 $\Omega$	Input Impedance	50 $\Omega$
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

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



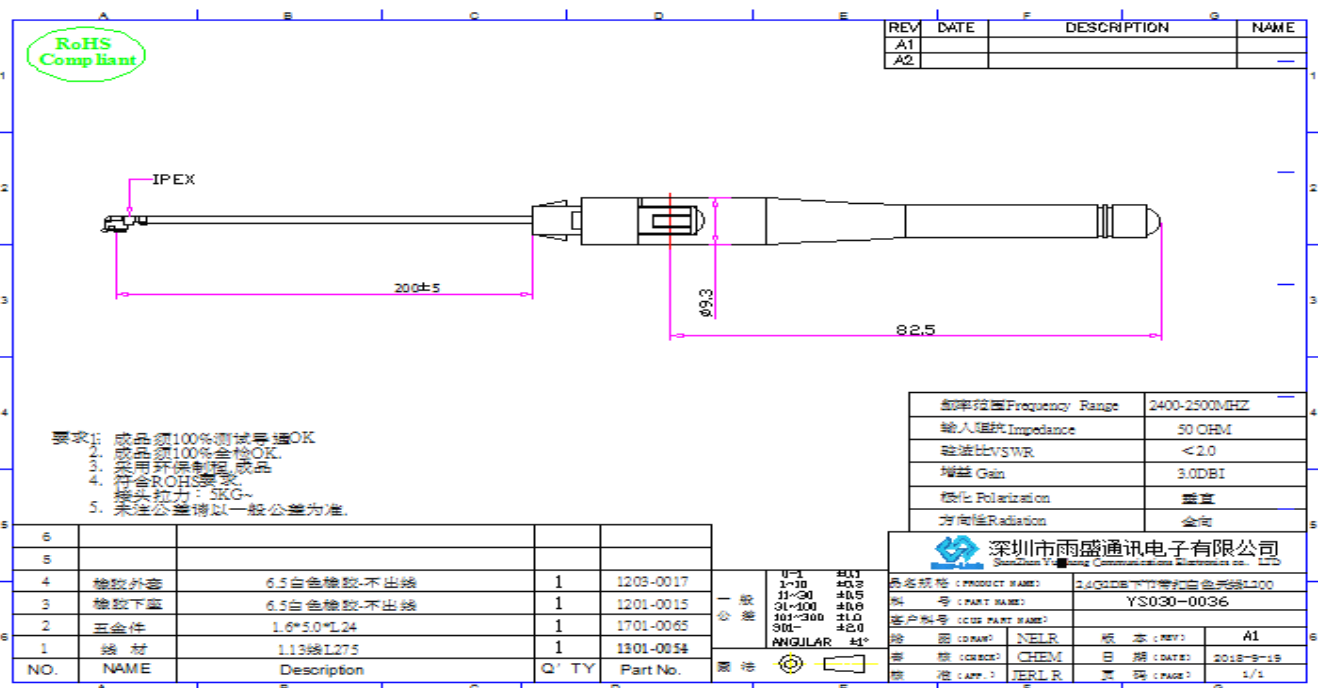
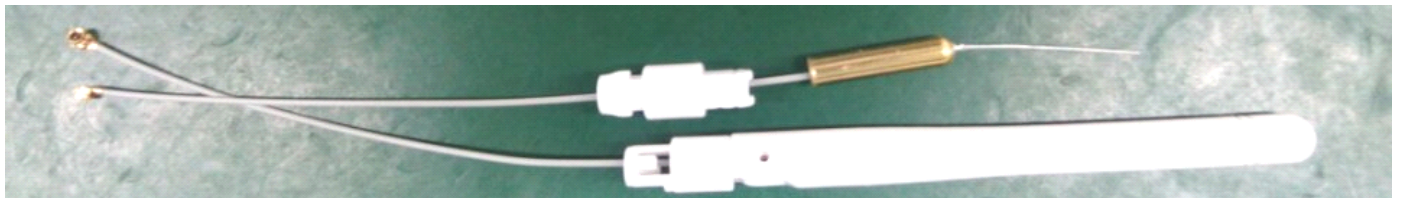
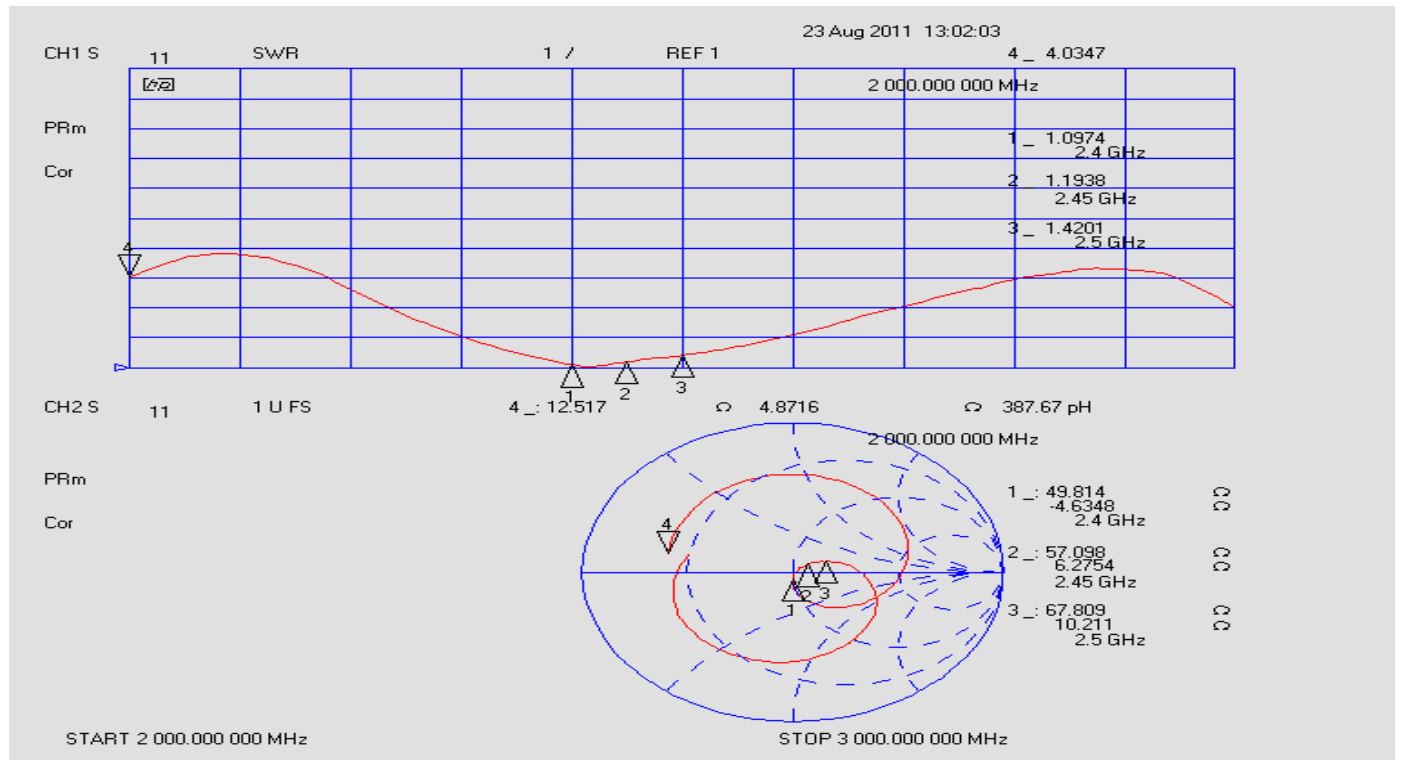
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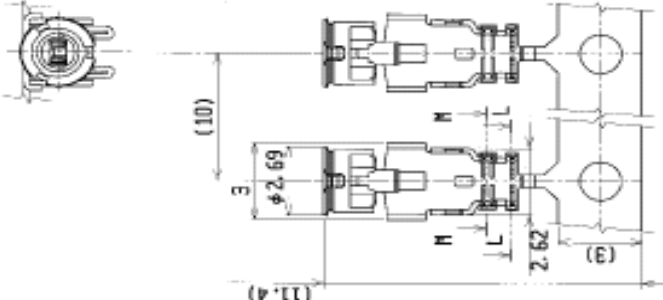
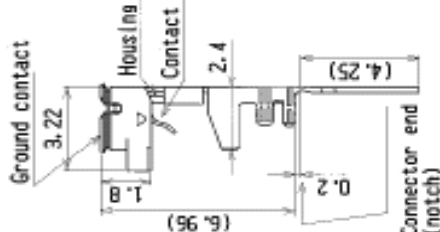
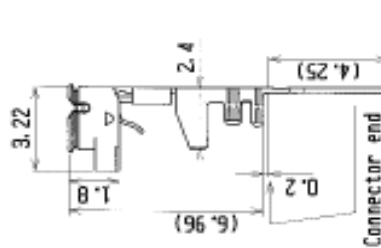
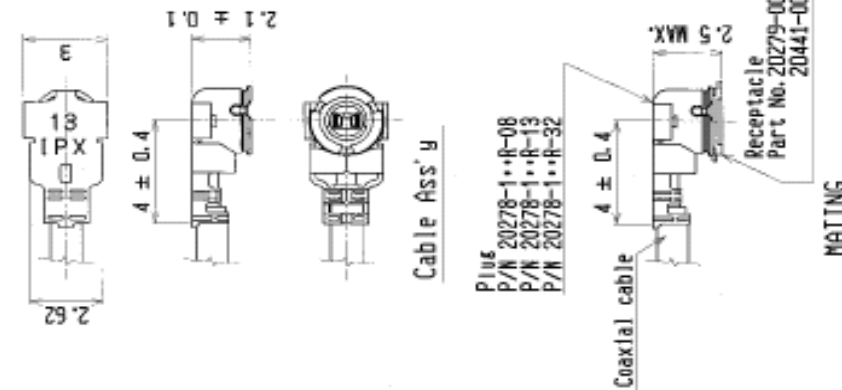

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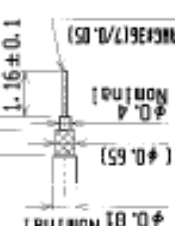
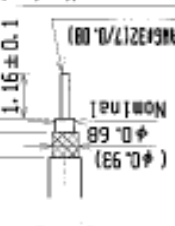
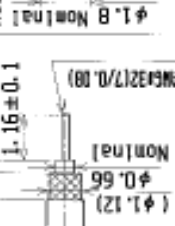
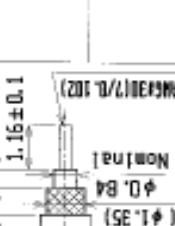
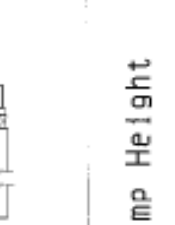

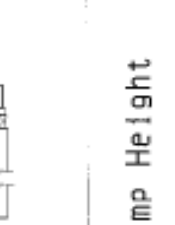

网络分析测试:




## Material Data Sheet

### MHF Connector

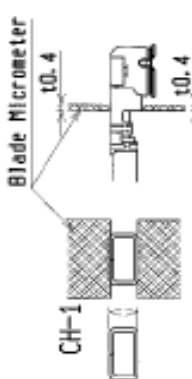
PART NO. 20278-111R-08		 <p>Ground contact</p> <p>Housing</p> <p>Contact</p> <p>Connector end (notch)</p> <p>Part No. 20278-101R-08 20278-102R-08 20278-101R-13 20278-102R-13 20278-101R-32 20278-102R-32</p> <p>For hand tool (with notch)</p>	 <p>Connector end</p> <p>Part No. 20278-111R-08 20278-112R-08 20278-111R-13 20278-112R-13 20278-111R-32 20278-112R-32</p> <p>For seal auto termination machine (without notch)</p>	 <p>13 IPX</p> <p>Cable Assy</p> <p>Plus P/N 20278-11R-08 P/N 20278-11R-13 P/N 20278-11R-32</p> <p>Coaxial cable</p> <p>Receptacle Part No. 20279-001E-01 20441-001E-01</p> <p>MATING</p>	 <p>Interconnect and Packaging Electronics TOKYO, JAPAN</p> <p>TITLE MH series ultra coaxial connector plus vertical (ground contact: gold plating)</p> <p>SCALE UNIT Dwg. No. 6/1 mm 20278</p> <p>SHEET REV. 1/4 19C</p>	<table border="1"> <tr> <td>DESIGN BY</td> <td>DATE</td> </tr> <tr> <td>K. Ohguchi</td> <td>JUN/13/01</td> </tr> <tr> <td>CHK BY</td> <td>DATE</td> </tr> <tr> <td>T.H</td> <td></td> </tr> <tr> <td>APP BY</td> <td>DATE</td> </tr> <tr> <td>T.H</td> <td></td> </tr> <tr> <td>REV. ECD</td> <td>BY DATE APP</td> </tr> <tr> <td>REV. RECORD</td> <td></td> </tr> <tr> <td>SERIES No.</td> <td>2614</td> </tr> </table> <p>CUSTOMER COPY</p>	DESIGN BY	DATE	K. Ohguchi	JUN/13/01	CHK BY	DATE	T.H		APP BY	DATE	T.H		REV. ECD	BY DATE APP	REV. RECORD		SERIES No.	2614
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<p>GENERAL TOLERANCE</p> <p>6 MAX. ±0.2</p> <p>6 OVER MAX. 30 ±0.3</p> <p>30 OVER MAX. 120 ±0.5</p> <p>ANGLE ±2°</p>	FORM REV. 4																							

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
Diagram								
Bladed shield of Outer conductor 外部導体の刃組	Single / 1層組	Single / 1層組	Single / 1層組	Single / 1層組	Double / 2層組	Double / 2層組	Single / 1層組	Single / 1層組
P/N of hand Tool	90187-008C	90187-013C	90187-013C	90187-013C	90187-032C	90187-032C	90233-018	90232-018
P/N of seal auto termination machine	90213-008C	90213-013C	90213-013C	90213-013C	90213-032C	90213-032C		
Sect. M-M	1.68	2.24	2.24	2.24	2.29	2.29	2.71	2.71
Sect. L-L	1.72	2.28	2.28	2.28	2.37	2.37	3.1	3.1
Crimp Height	CH-1 1.34~1.40	CH-1 1.34~1.40	CH-1 1.34~1.40	CH-1 1.34~1.40	CH-1 1.34~1.40	CH-1 1.34~1.40	CH-1 1.34~1.40	CH-1 1.34~1.40
	CH-2 0.76~0.84	CH-2 0.76~0.84	CH-2 0.76~0.84	CH-2 0.76~0.84	CH-2 0.76~0.84	CH-2 0.76~0.84	CH-2 0.76~0.84	CH-2 0.76~0.84
	CH-3 0.85~0.97	CH-3 0.85~0.97	CH-3 0.85~0.97	CH-3 0.85~0.97	CH-3 0.85~0.97	CH-3 0.85~0.97	CH-3 0.85~0.97	CH-3 0.85~0.97


Cable cut length




Crimp Height



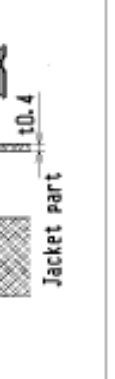
CH-1




CH-2




CH-3



Outer conductor part



Jacket part



NOTE-1

中心導体、外部導体への半田コティングは不可  
Must not use solder coated  
Inner conductor and outer conductor.

REVISION	BY	DATE	REVISION	BY	DATE
CHK'D	BY	DATE	CHK'D	BY	DATE
APP'D	BY	DATE	APP'D	BY	DATE

REV. RECORD

REV. No. 2814

SERIES No.

CUSTOMER COPY

PROJECTION SCALE UNIT

UNIT

Doc. No.

20278

General

Interconnect and Protective Electroplating

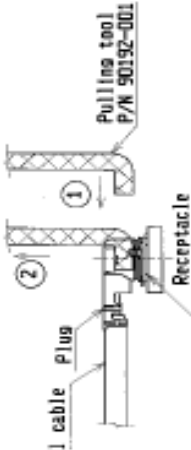
ISO 9001:2015

SHEET REV. 3/4 19C



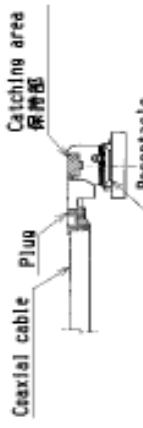
### 5-2 Unmating.

(1) In case of unmating by pulling tool.  
Please use the pulling tool as the following drawing, and please pull plug to vertical direction as directly as possible.



Coaxial cable Plug  
Pulling tool P/N 90192-001  
Receptacle

(2) In case of unmating directly by hand  
Please catch the catching area of plug, and please pull plug to vertical direction as directly as possible.



Coaxial cable Plug  
Catching area  
Receptacle

### 5-3 Crimp over standards of outer conductor

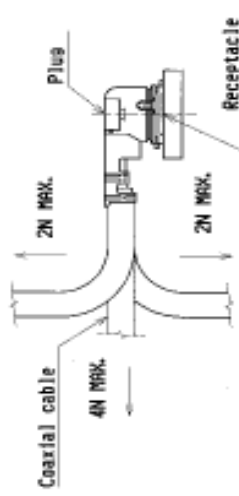
Standards: Less than 10% from total numbers of outer conductor  
(Numbers of outer conductor's crimp over from outer conductor's barrel)

5-4 Caution about Heat shrinkage tubes  
Please be careful not to melt housing when using heat shrinkage tubes.  
It will become cause of open circuit.

6. This is 'Pb-free' connector.

### 5-1 Mating.

Please mate the connector straightly to vertical direction as much as possible, adjusting the mating axis of plug and receptacle.  
As excessive slant angle mating may break the connector, please don't do it.



Coaxial cable Plug  
Receptacle

### 5-1 コネクタ挿入時

PlugとReceptacleの中心合軸を合わせ、  
であるだけ直交に挿入して下さい。  
傾斜は斜め挿入は行わないで下さい。  
コネクタ接点の損傷と成りますので、過度なこじり  
挿入は行わないで下さい。

### 5-2 コネクタ抜き時

(1) ハウジング: PBT, UL94V-0  
(2) コンタクト  
のめっき  
金メッキ0.1μm MIN.  
下層 ニッケル1.27μm MIN.  
(3) グランドコンタクト  
のめっき  
金メッキ0.05μm MIN.  
下層 ニッケル1.27μm MIN.  
2. 梱包: リール  
3. 対応相手 part No.  
: 20279-001E-01, 20441-001E-01  
4. コネクタから合軸のケーブルに及ぼす荷重

### 5-3 外側導体はみ出し量

外側導体はみ出し量規定  
: 外側導体トータルの長さ  
の10%以下  
(外側導体バレルの外に  
はみ出した量)

5-4 熱収縮チューブについて  
の注意  
熱収縮チューブで外側導体  
を覆う場合は、導体本身の  
周囲にのりませないで、熱に  
よってハウジングを剥離させな  
いよう注意してください。

6. コネクタは Pb-free\*  
である

### Notes

1. Material  
(1) Housing: PBT, UL94V-0  
(2) Contact  
phosphor bronze  
gold plating 0.1μm MIN.  
over nickel 1.27μm MIN.  
(3) Ground contact  
phosphor bronze  
gold plating 0.05μm MIN.  
over nickel 1.27μm MIN.  
2. Packing: reel  
3. Mating partner part No.  
: 20279-001E-01, 20441-001E-01  
4. Permissible load of cable at mating

### GENERAL TOLERANCE

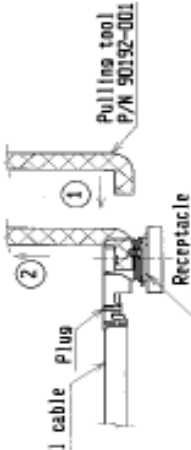
6 MAX.	±0.2
6 OVER MAX. 30	±0.3
30 OVER MAX. 120	±0.5
ANGLE	±2°

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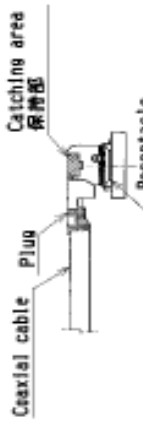
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Catching area  
Receptacle

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