



深圳市雨盛通讯电子有限公司

Shenzhen Yu Sheng Communications Electronics co., LTD

TEL: +86 0755-28640107

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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:

2024-8-31



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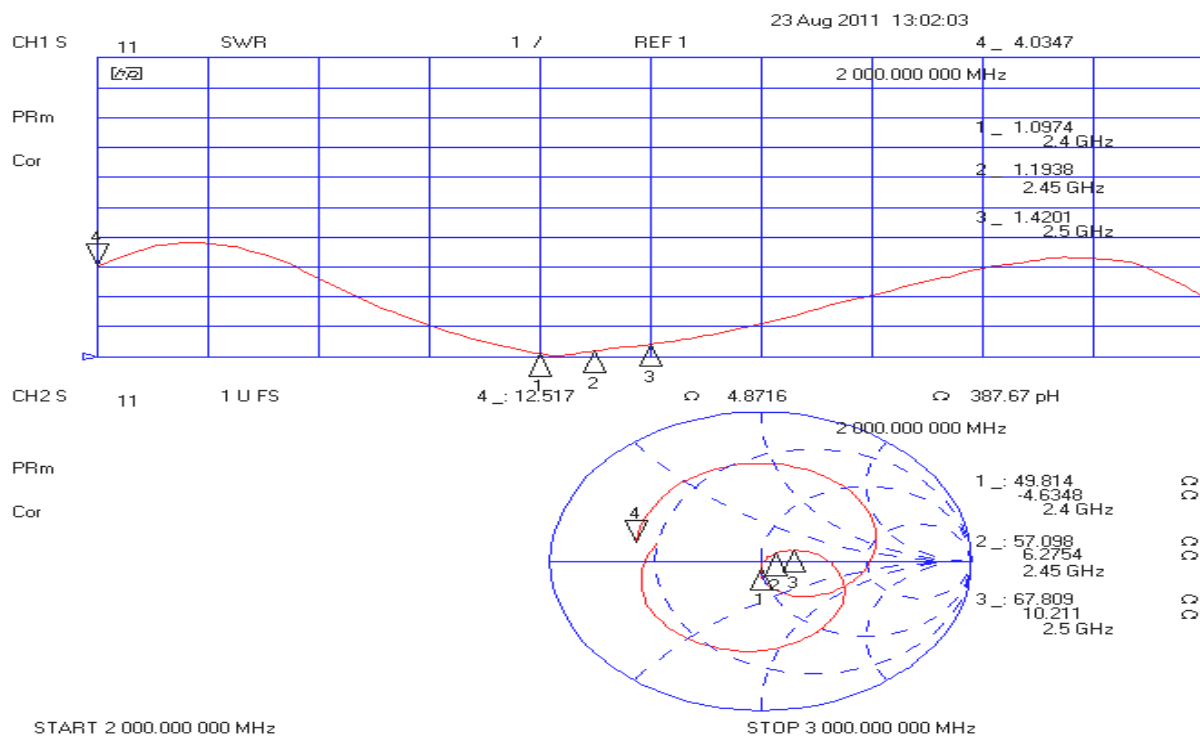
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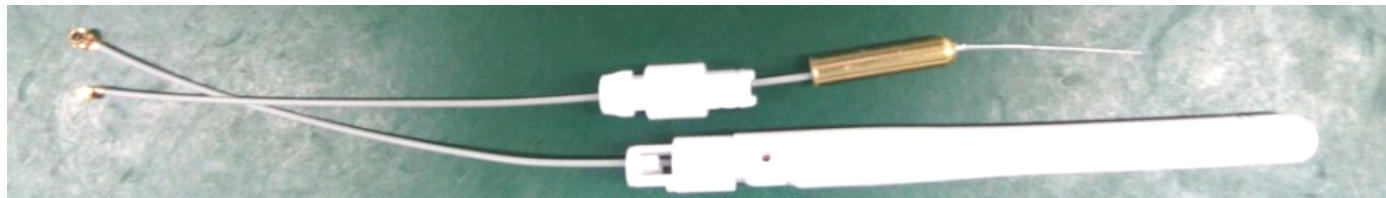
电器技术参数

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	2.5DBI	GAIN	2.5DBI
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%

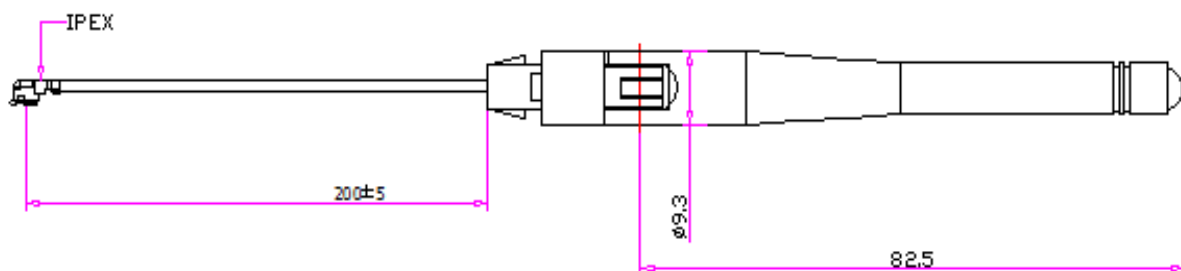
网络分析测试:



天线图片:

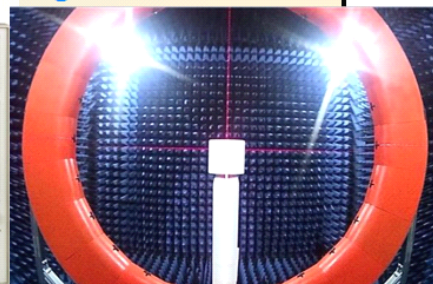
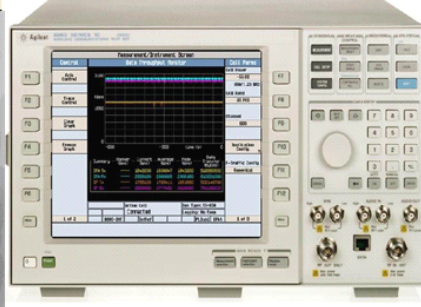
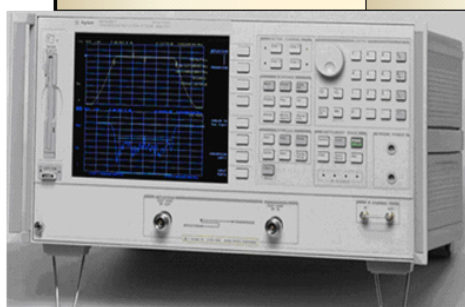


结构图:

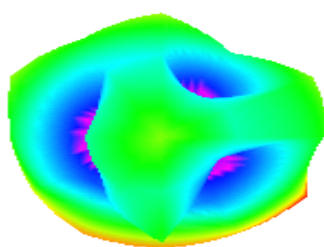


● 测试项目与设备

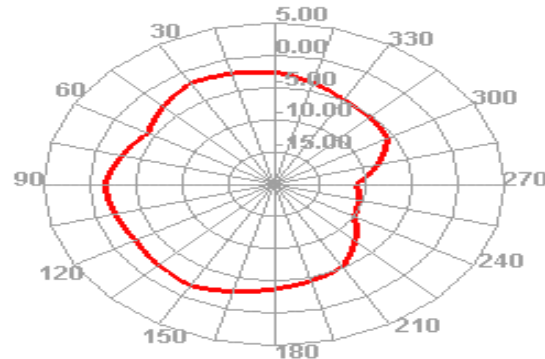
	测试项目	设备
1. S参数	1. 回波损耗 2. 驻波比	网络分析仪: Agilent E5071B
2. 耦合功率测试	1. 发射功率 2. 接收灵敏度	GSM 测试仪: Agilent 8960 E5515C LTE /WIFI/BT测试仪: R&S CMW500
3. 辐射模式与增益	1. 辐射模式 2. 天线增益	1. 暗室: 8x4x4 m (3D) 2. 网络分析仪: Agilent E5071B



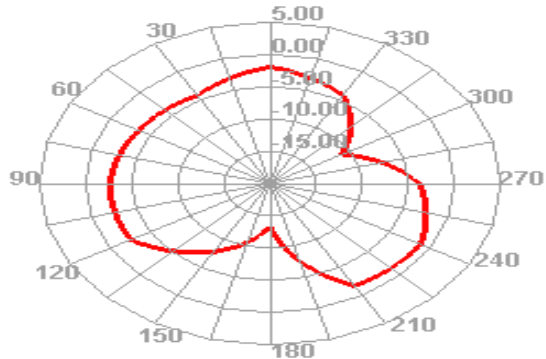
2400.000MHz



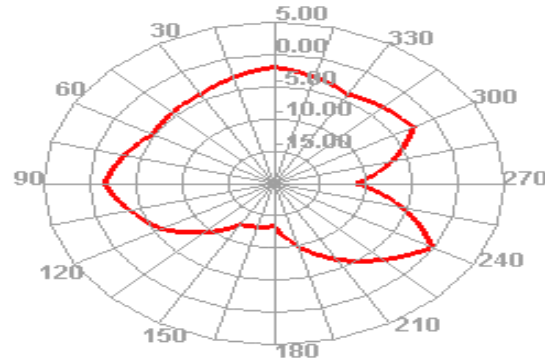
2400.000MHz H



2400.000MHz E1



2400.000MHz E2





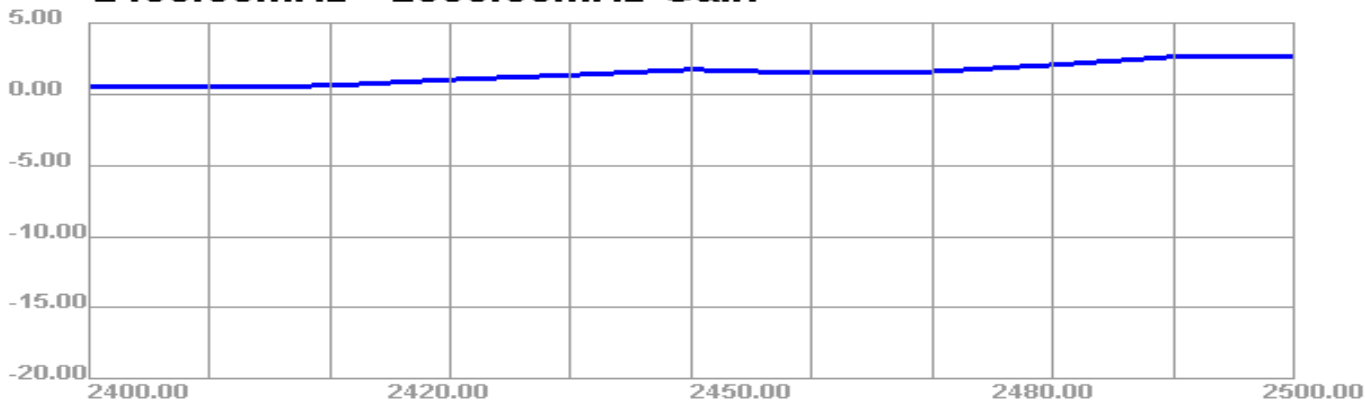
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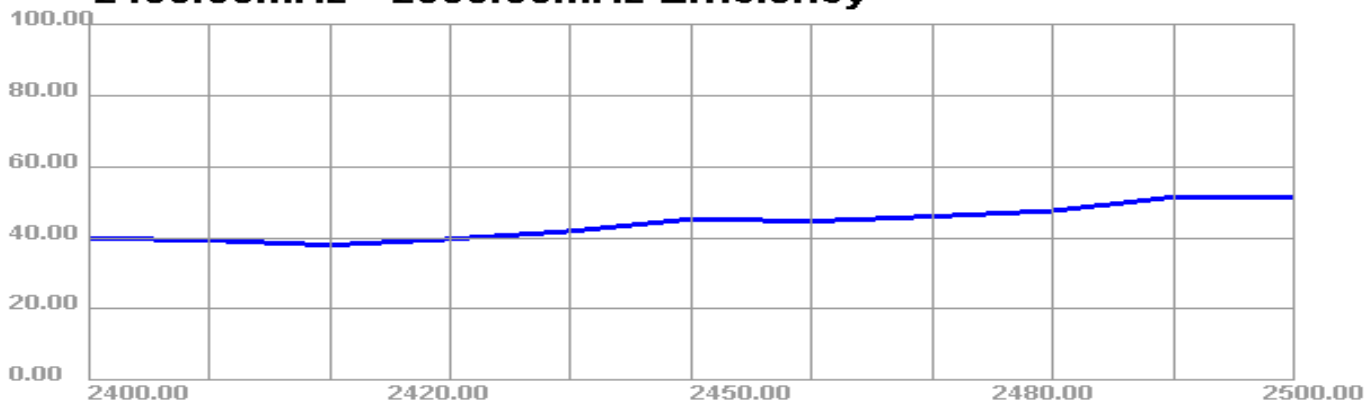
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2400.00MHz - 2500.00MHz Gain



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

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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
Braid shield of Outer conductor		Single / 1層構造	Single / 1層構造	Single / 1層構造	Single / 1層構造	Double / 2層構造	Double / 2層構造	Single / 1層構造	Single / 1層構造
P/N of hand Tool		90187-008C	90187-013C	90187-032C	90233-018	90232-018	90232-018	90232-018	90232-018
Sect. M-M		1.68	1.12	1.68	1.12	1.68	1.12	1.68	1.12
Sect. L-L		1.72	1.19	1.72	1.19	1.72	1.19	1.72	1.19
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 1.41~1.49 1.70~1.80	1.34~1.40 1.41~1.49 1.70~1.80	1.34~1.40 1.41~1.49 1.70~1.80	1.34~1.40 1.41~1.49 1.70~1.80

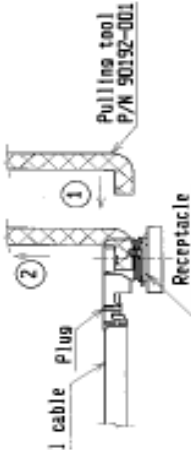
NOTE-1
中心導体、外部導体への半田コティングは不可
Must not use solder coated
inner conductor and outer conductor.

CUSTOMER COPY		DATE	DATE	DATE
REV ECH	BY	DATE	APP	DATE
REV. RECORD	2814			
SERIES No.	20278			
CUSTOMER	General			
SCALE	1:1			
UNIT	mm			
DWG. No.	20278			
SHEET	3/4			
REV.	19C			

FORM REV. 4

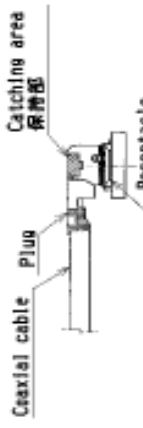
5-2 Unmating.

(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

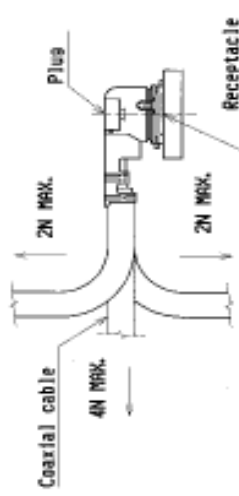
Standards: Less than 10% from total numbers of outer conductor
(Numbers of outer conductor's crimp over from outer conductor's barrel)

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の中心合わせを合わせ、直線的に挿入して下さい。
傾斜した状態で挿入を行うと、コネクタの破損の原因となりますので、注意が必要です。

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. 対応標準 part No.
: 20279-001E-01, 20441-001E-01
4. コネクタから合衆のケーブルに耐える構造

5-3 外側導体はみだし量

外側導体はみだし量規定
: 外側導体1-2mm未満
の1.0mm以下
(外側導体バレルの外に
はみだし量)

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
周囲にのりやテープ、熱収縮
チューブを貼付するのではなく、
必ず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

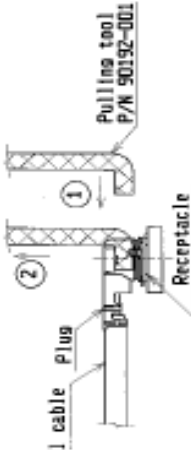
6 MAX.	±0.2
6 OVER MAX. 30	±0.3
30 OVER MAX. 120	±0.5
ANGLE	±2°

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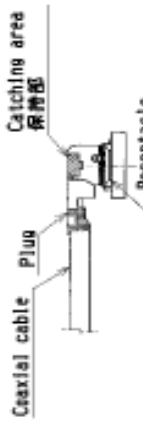
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下層 ニッケル1.27μm MIN.
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: 20279-001E-01, 20441-001E-01
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