



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:

2024-8-31



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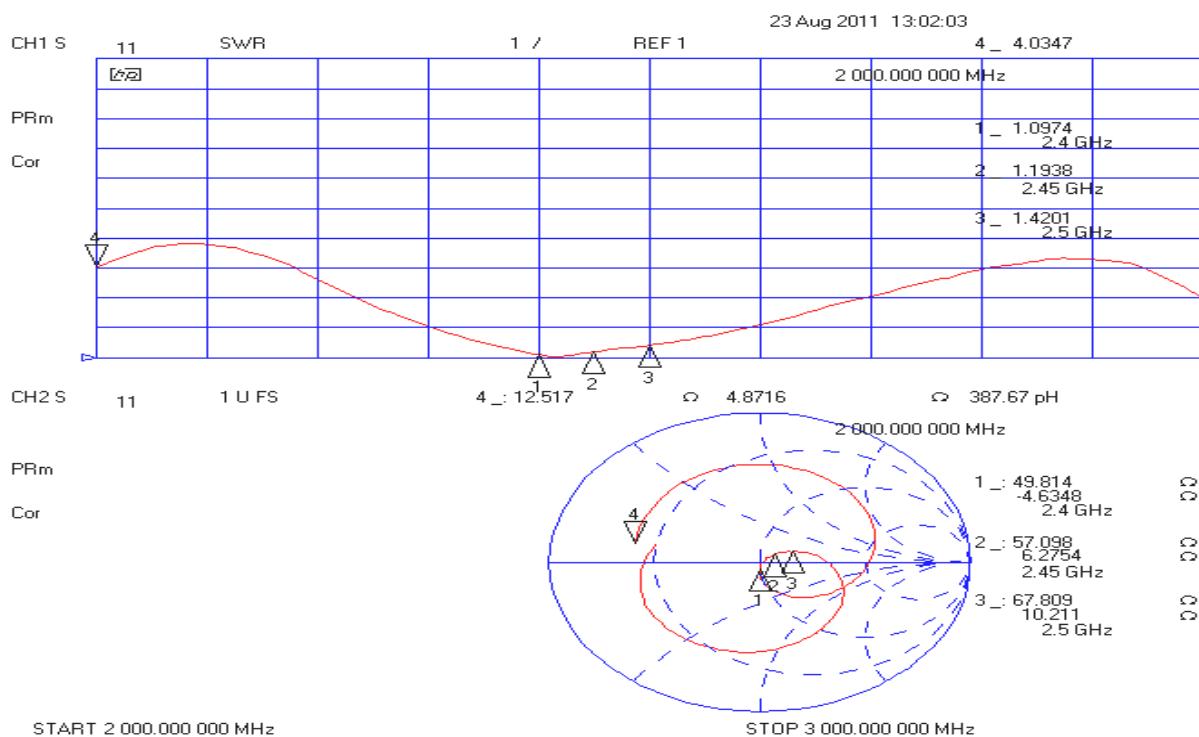
电器技术参数

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%

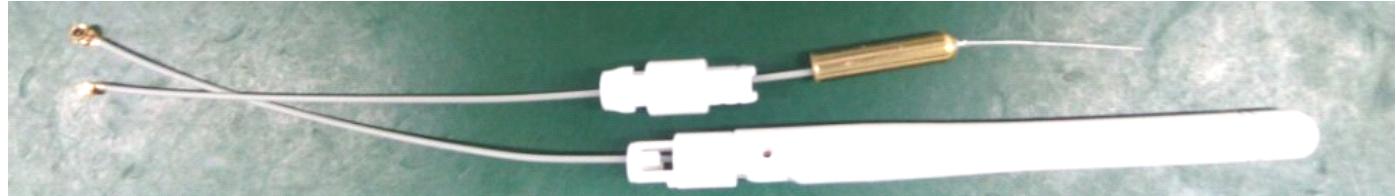
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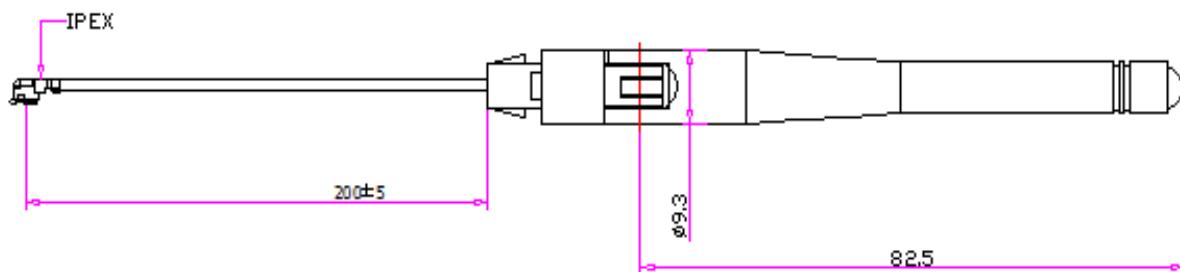
网络分析测试:



天线图片:

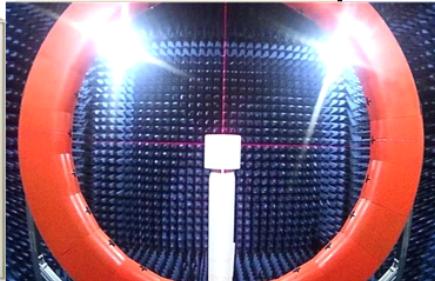
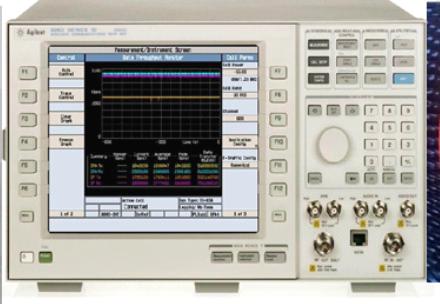


结构图:

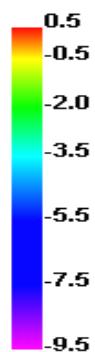
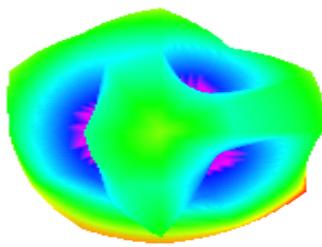


● 测试项目与设备

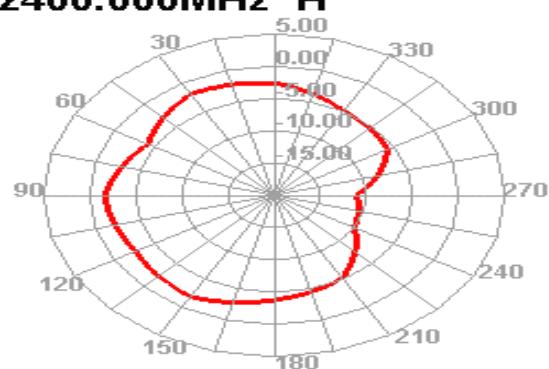
	测试项目	设备
1. S参数	1. 回波损耗 2. 驻波比	网络分析仪: Agilent E5071B
2. 耦合功率测试	1. 发射功率 2. 接收灵敏度	GSM 测试仪: Agilent 8960 E5515C LTE /WIFI/BT测试仪: R&S CMW500
3. 辐射模式与增益	1. 辐射模式 2. 天线增益	1. 暗室: 8x4x4 m (3D) 2. 网络分析仪: Agilent E5071B



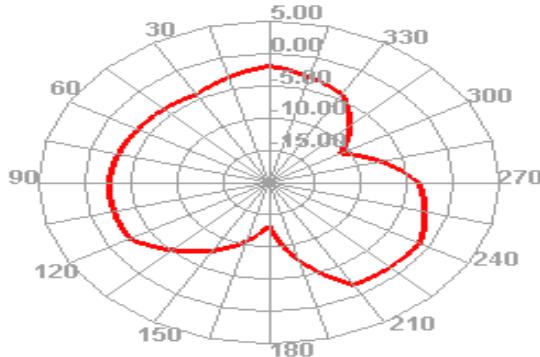
2400.000MHz



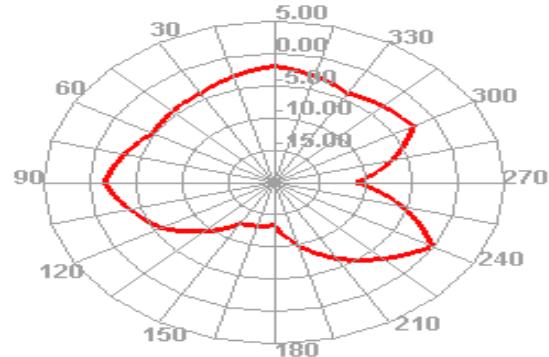
2400.000MHz H



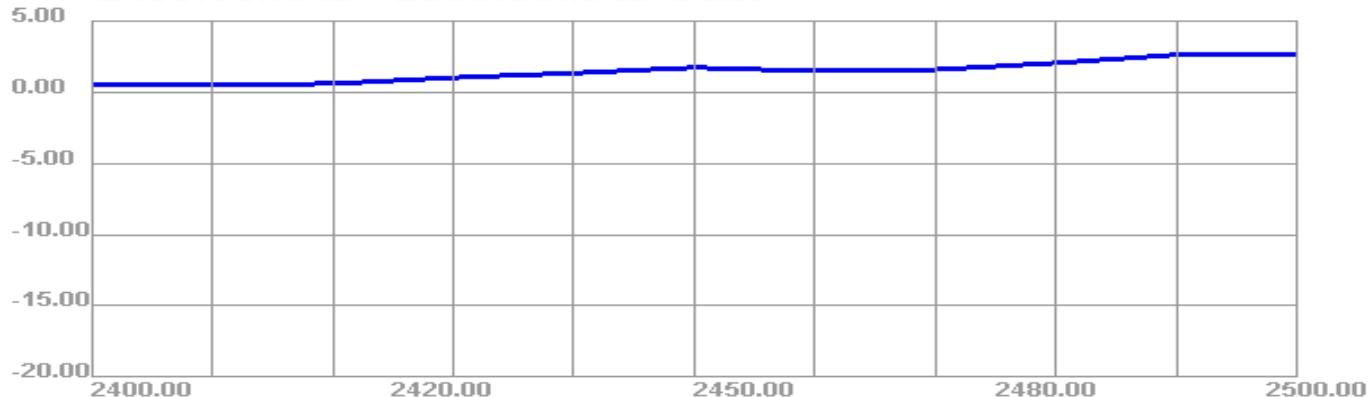
2400.000MHz E1



2400.000MHz E2



2400.00MHz - 2500.00MHz Gain



2400.00MHz - 2500.00MHz Efficiency



Passive Test For WIFI

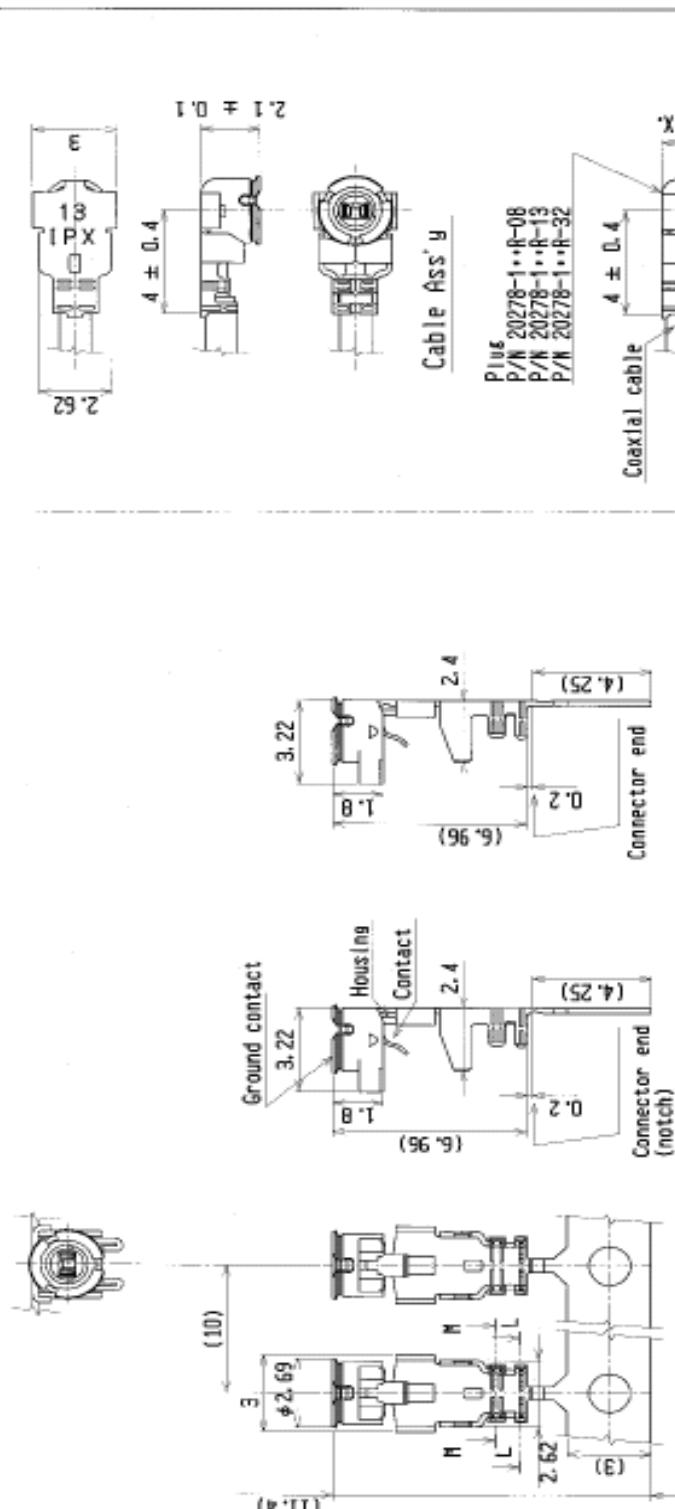
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHIS (%)	DHIS (%)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	39.9	-3.99	0.52	-1.63	16.108	23.797	0.52	-13.42	4.51	60	43.91	43.89
2410	39.32	-4.05	0.51	-1.64	15.992	23.328	0.51	-13.61	4.56	60	44.05	43.95
2420	37.97	-4.21	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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Material Data Sheet

MHF Connector

 PART NO. 20278-101P-00		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center; padding: 5px;"> I-PEX <small>International and Regional Electronics</small> TOKYO, JAPAN </td> </tr> <tr> <td colspan="2" style="text-align: center; padding: 5px;"> TITLE MH series MHF series MHF connector plus vertical (cannula contact : solid silver) </td> </tr> <tr> <td style="width: 30%; text-align: center; padding: 5px;"> DATE JUN/13/01 </td> <td style="width: 70%; text-align: center; padding: 5px;"> DESIGNER BY K. Ohnishi </td> </tr> <tr> <td style="text-align: center; padding: 5px;"> DATE JUN/13/01 </td> <td style="text-align: center; padding: 5px;"> CHECKED BY E.K. </td> </tr> <tr> <td style="text-align: center; padding: 5px;"> DATE JUN/13/01 </td> <td style="text-align: center; padding: 5px;"> APPROVED BY T.H. </td> </tr> <tr> <td style="text-align: center; padding: 5px;"> REV ECN 0 </td> <td style="text-align: center; padding: 5px;"> DATE JUN/13/01 </td> </tr> <tr> <td style="text-align: center; padding: 5px;"> REV. RECORD </td> <td style="text-align: center; padding: 5px;"> CUSTOMER </td> </tr> <tr> <td style="text-align: center; padding: 5px;"> SERIES NO. 2814 </td> <td style="text-align: center; padding: 5px;"> SCALE UNIT 6/1 mm </td> </tr> <tr> <td style="text-align: center; padding: 5px;"> PRINT REV. 4 </td> <td style="text-align: center; padding: 5px;"> PRINT REV. 1/4 19C </td> </tr> </table>	I-PEX <small>International and Regional Electronics</small> TOKYO, JAPAN		TITLE MH series MHF series MHF connector plus vertical (cannula contact : solid silver)		DATE JUN/13/01	DESIGNER BY K. Ohnishi	DATE JUN/13/01	CHECKED BY E.K.	DATE JUN/13/01	APPROVED BY T.H.	REV ECN 0	DATE JUN/13/01	REV. RECORD	CUSTOMER	SERIES NO. 2814	SCALE UNIT 6/1 mm	PRINT REV. 4	PRINT REV. 1/4 19C
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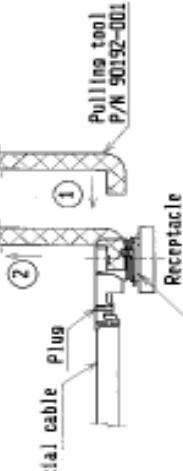
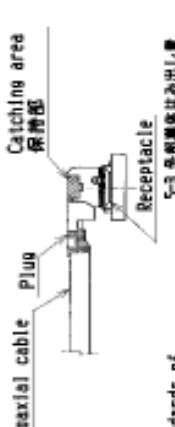
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NOTE-1 中心導体、外部導体への半田コーティングは不可
Must not use solder coated
Inner conductor and outer conductor.

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5-2コネクタ取扱い																									
<p>Notes</p> <p>1. Material</p> <p>(1) Housing : PBT, UL94V-0</p> <p>(2) Contact : phosphor bronze gold plating 0.1μm MIN. over nickel 1.27μm MIN.</p> <p>(3) Ground contact : phosphor bronze gold plating 0.05μm MIN. over nickel 1.27μm MIN.</p> <p>2. Packing : reel</p> <p>3. Mating partner part No. : 20279-001E-01, 20441-001E-01</p> <p>4. Permissible load of cable at mating : 20279-001E-01, 20441-001E-01</p>	<p>(1) 拉引工具を用いる場合 Please use the pulling tool as the following drawing, and please pull plug to vertical direction as directly as possible.</p>  <p>(2) 手で直角方向をつかむ場合 Please catch the catching area of plug, and please pull plug to vertical direction as directly as possible.</p> 																								
<p>5. Suggestions for mating & unmating operation.</p> <p>5-1 Mating.</p> <p>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.</p>	<p>5-2 Crimp over standards of outer conductor</p> <p>Standard: Less than 10% from total numbers of outer conductor (Numbers of outer conductor's crimp over from outer conductor's barrel)</p> <p>5-3 Receptacle assembly specification</p> <p>外接導体はみ出し量規定 外接導体はみ出し量規定 ①外接導体トータル本数 ②外接導体バーの外に はみ出しがたき</p> <p>5-4 剥離チューブについて</p> <p>①注意 剥離チューブで外接導体を繋ぐ場合は、導通不良の原因になりますので、適度な よりハウジングを剥離させな いよう注意してください。</p> <p>6. このコネクタは 'Pb-free' である。</p>																								
<p>I-PEX Japan and Partner Electronics TOKYO, JAPAN</p> <table border="1"> <tr> <td>GENERAL</td> <td>REV ECR BY DATE</td> <td>APP'D BY DATE</td> <td>DATE</td> <td colspan="2">TITLE</td> </tr> <tr> <td colspan="2">REV ECR RECORD</td> <td colspan="2">CUSTOMER PRODUCTION</td> <td>UNIT</td> <td>UNIT</td> </tr> <tr> <td colspan="2">SERIES No. 2014</td> <td>APP</td> <td>APP</td> <td>20278</td> <td>4/4 19C</td> </tr> <tr> <td colspan="6">WAS T</td> </tr> </table>		GENERAL	REV ECR BY DATE	APP'D BY DATE	DATE	TITLE		REV ECR RECORD		CUSTOMER PRODUCTION		UNIT	UNIT	SERIES No. 2014		APP	APP	20278	4/4 19C	WAS T					
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