



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: +86 755 28694967

版本: A1

CUSTOMER:

DESCRIPTION:

2.4G2.5DB Antenna-L350mm

PART NO.:

YS030-0105

CUS PART NO.:

D A T E:

2024-12-23

ENGINEERING DEPARTMENT	Q C DEPARTMENT	SALES DEPARTMENT

:

ENGINEERING DEPARTMENT	Q C DEPARTMENT	PURCHASING DEPARTMENT

:

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 to 4th floors, No. 102 Aoxi Road, Aobei Village, Henggang Town, Longgang District, Shenzhen

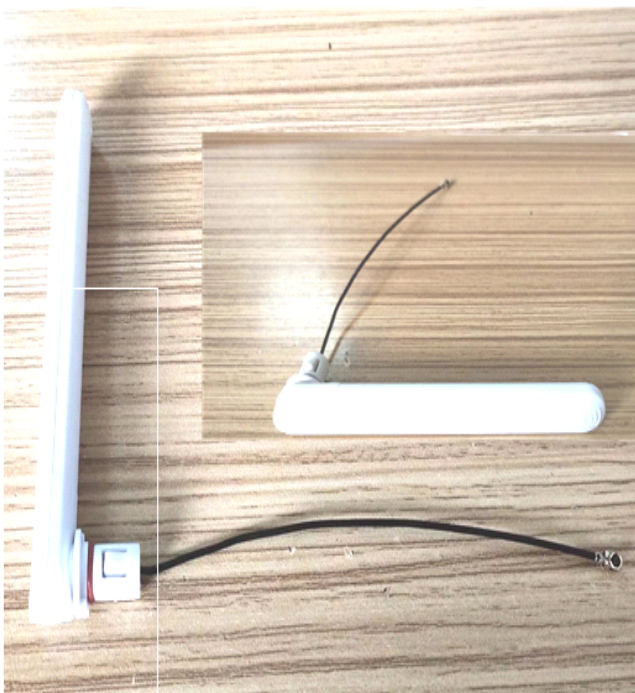
Electrical Specifications

Frequency Range	2400-5800MHZ
VSWR	≤ 2.0
Input Impedance	50 Ω

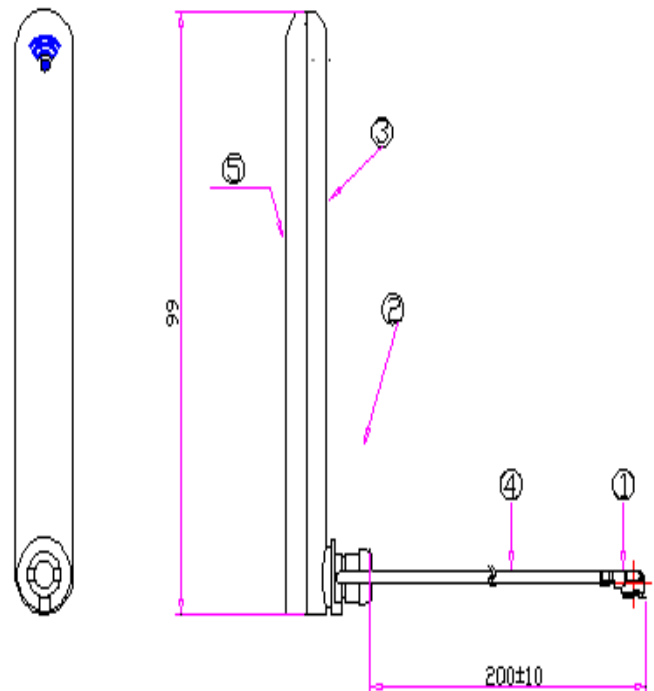
Mechanical Specifications

Antenna Color	WHITE
Input connector	IPEX1.13
Cable length	200mm
Working Temperature	-40°C ~ +85°C
Working Humidity	20~80%

(Product picture) :



(Product Specification) :

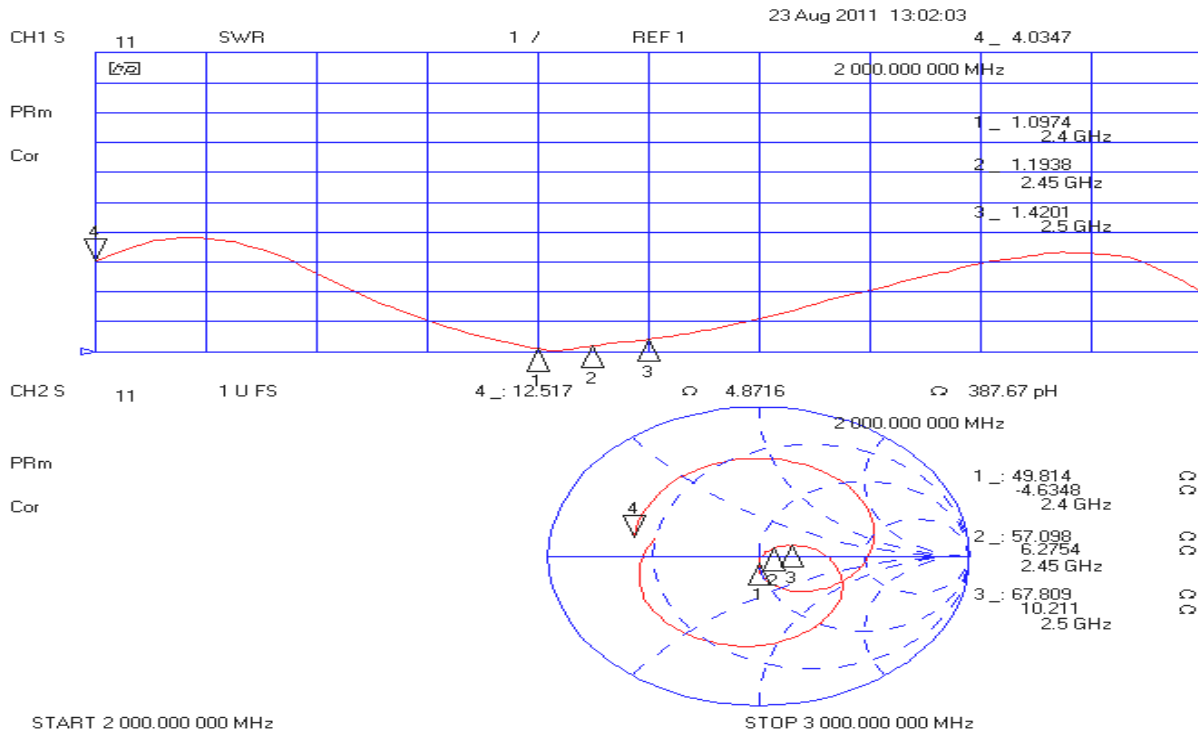




(Environmental performance test) :

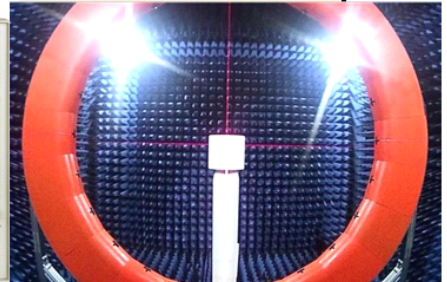
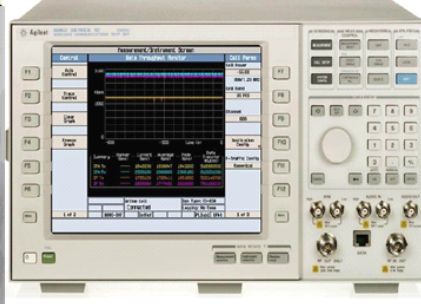
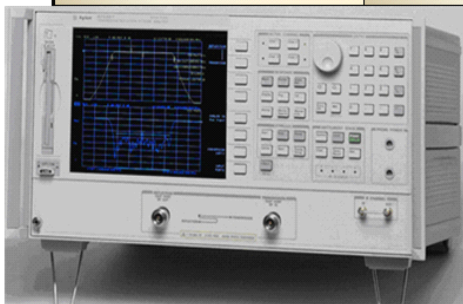
ITEM	TEST CONDITION	TEST RESULT
The storage environment	In the absence of the specified circumstances test temperature, humidity, air pressure is as follows: 1 temperature is -30 °C ~ +80 °C 2 relative humidity for 45%-85% The 3 pressure is 86kpa-106kpa	Electrical and mechanical properties of normal
Thermocycling ;	5 cycles between 70 °C and 40 °C, then under normal conditions 1-2H, appearance quality inspection.	Dimensions should meet the requirements and shall satisfy In the mechanical, electrical properties
Resistance to damp heat Test	Relative humidity is $95 \pm 3\%$, test temperature: 40 °C. Continue after 2H, Test within the product after removing the 5min determination of the electrical properties, in the normal sample Under 1-2H, the appearance of quality inspection	Dimensions should meet the requirements and shall satisfy In the mechanical, electrical properties
vibration test ;	Displacement amplitude of vibration frequency range: 10-55HZ, 0.35MM, the amplitude of acceleration: 50.0M/S, sweep cycle times: 30 times	Electrical and mechanical properties of normal
fall-down test ;	1M high altitude in accordance with the perpendicular axis free fall 3	Electrical and mechanical properties of normal

(Agilent network analyzer test chart):

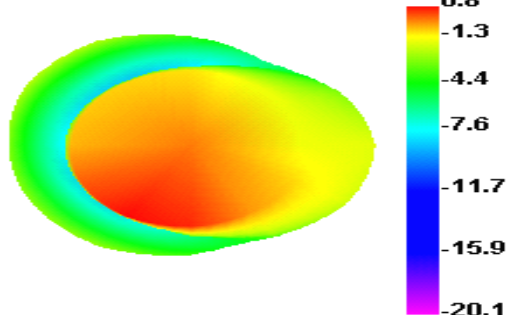


(Gain-Tset):

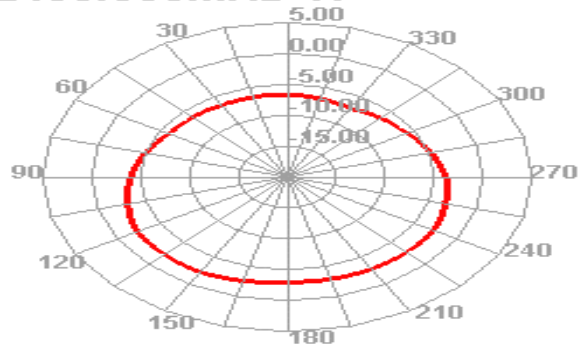
	测试项目	设备
1. S参数	1. 回波损耗 2. 驻波比	网络分析仪: Agilent E5071B
2. 耦合功率测试	1. 发射功率 2. 接收灵敏度	GSM 测试仪: Agilent 8960 E5515C LTE /WIFI/BT测试仪: R&S CMW500
3. 辐射模式与增益	1. 辐射模式 2. 天线增益	1. 暗室: 8x4x4 m (3D) 2. 网络分析仪: Agilent E5071B



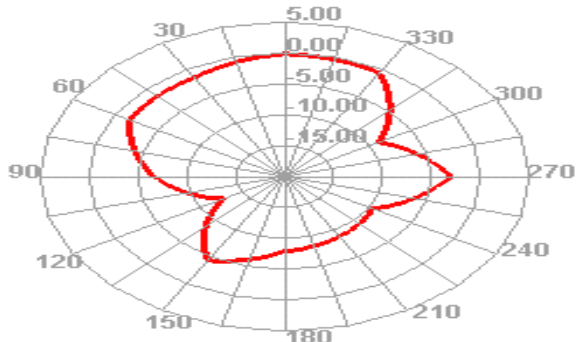
2400.000MHz



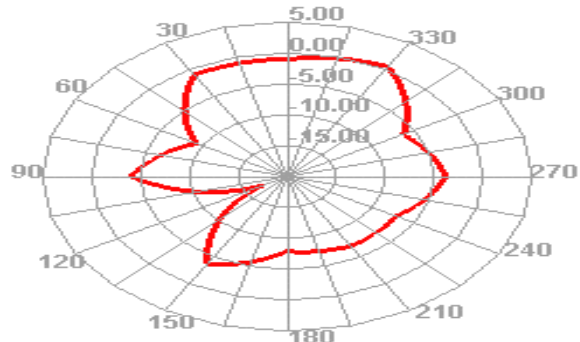
2400.000MHz H



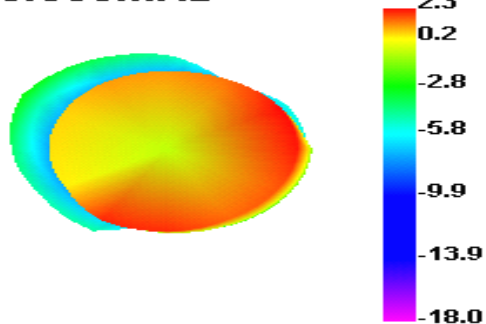
2400.000MHz E1



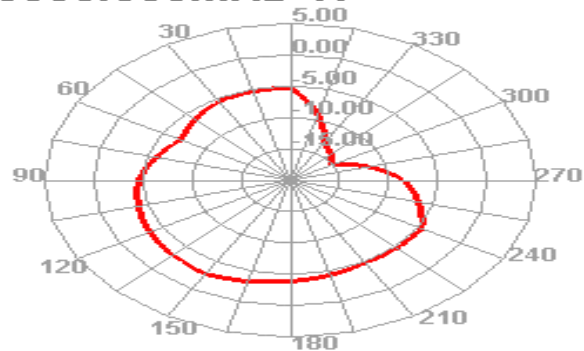
2400.000MHz E2



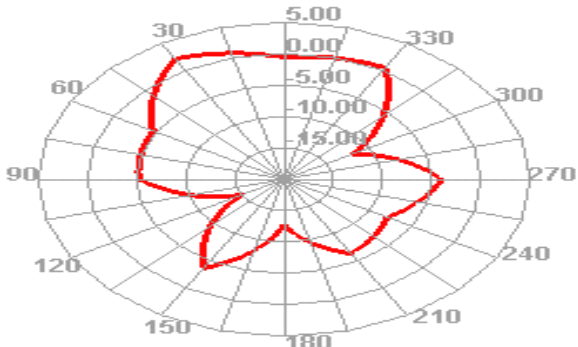
5800.000MHz



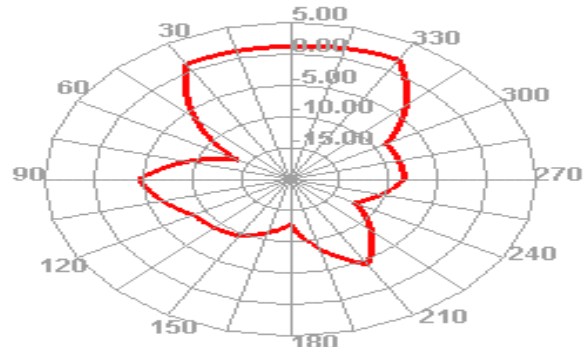
5800.000MHz H



5800.000MHz E1



5800.000MHz E2





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Passive Test For 2.4-5.8										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2200	33.96	-4.69	-0.38	-2.53	20.318	13.645	-0.38	-20.54	44.82	43.93
2250	41.03	-3.87	0.11	-2.04	24.423	16.604	0.11	-18.71	45.23	44.53
2300	37.92	-4.21	0.1	-2.05	23.408	14.512	0.1	-21.08	45.78	45.31
2350	37.41	-4.27	-0.07	-2.22	22.677	14.729	-0.07	-19.21	46.38	45.92
2400	34.11	-4.67	0.79	-1.36	22.873	11.234	0.79	-20.1	46.87	46.67
2450	34.91	-4.57	0.82	-1.33	26.498	8.41	0.82	-20.44	47.72	47.63
2500	37.35	-4.28	1.35	-0.8	30.749	6.6	1.35	-16.56	47.75	47.52
2550	33.02	-4.81	0.64	-1.51	28.059	4.962	0.64	-19.86	47.22	46.83
2600	43.64	-3.6	1.28	-0.87	36.884	6.755	1.28	-17.04	47.84	47.56
2650	46.2	-3.35	1.43	-0.72	38.444	7.758	1.43	-16.52	48.18	48.08
2700	43.25	-3.64	0.9	-1.25	35.536	7.714	0.9	-16	48.52	48.56
2750	43.27	-3.64	0.74	-1.41	34.558	8.715	0.74	-14.41	49.05	49.21
2800	49.02	-3.1	1.01	-1.14	38.365	10.654	1.01	-13.09	49.69	49.92
2850	49.05	-3.09	0.49	-1.66	37.492	11.555	0.49	-12.68	49.92	49.65
2900	43.72	-3.59	0.19	-1.96	32.97	10.752	0.19	-12.45	50.13	49.97
2950	37.71	-4.24	-0.47	-2.62	28.157	9.556	-0.47	-11.61	50.16	49.99
3000	32.66	-4.86	-1.47	-3.62	24.182	8.477	-1.47	-12.74	50.19	49.92
3050	31.84	-4.97	-1.62	-3.77	23.601	8.242	-1.62	-12.36	50.03	50.16
3100	36	-4.44	-0.73	-2.88	26.874	9.126	-0.73	-12.35	51.1	51.19
3150	32.91	-4.83	-1.14	-3.29	24.581	8.327	-1.14	-12.05	51.44	51.49
3200	30.02	-5.23	-1.33	-3.48	21.964	8.061	-1.33	-13.12	51.56	51.69
3250	28.63	-5.43	-1.72	-3.87	20.191	8.438	-1.72	-15.02	51.76	51.61
3300	28.36	-5.47	-1.1	-3.25	19.588	8.768	-1.1	-13.03	51.51	51.47
3350	35.14	-4.54	-0.12	-2.27	24.493	10.644	-0.12	-12.46	51.99	52
3400	40.79	-3.89	0.35	-1.8	28.108	12.684	0.35	-13.69	52.22	52.24
3450	38.02	-4.2	-0.7	-2.85	25.689	12.335	-0.7	-13.53	52.03	52.26
3500	34.48	-4.62	-1.21	-3.36	22.704	11.779	-1.21	-14.58	52.56	52.81
3550	35.28	-4.52	-1.26	-3.41	22.888	12.391	-1.26	-14.47	53.02	53.08
3600	36.07	-4.43	-1.21	-3.36	22.711	13.359	-1.21	-13.86	53.04	53.03
3650	41.74	-3.79	-0.29	-2.44	26.448	15.292	-0.29	-13.31	53.47	53.47
3700	43.38	-3.63	-0.07	-2.22	27.626	15.754	-0.07	-14.07	53.51	53.33
3750	43.17	-3.65	0.01	-2.14	27.549	15.619	0.01	-14.2	53.33	53.38
3800	40.41	-3.93	-0.21	-2.36	25.992	14.42	-0.21	-15.09	52.81	52.96
3850	39.45	-4.04	-0.27	-2.42	25.225	14.228	-0.27	-15.87	52.56	52.78
3900	44.26	-3.54	0.02	-2.13	28.436	15.82	0.02	-14.87	52.83	53.15
3950	44.85	-3.48	-0.37	-2.52	28.967	15.883	-0.37	-15.34	52.87	53.08
4000	44.88	-3.48	-0.54	-2.69	28.696	16.182	-0.54	-16.81	52.98	53.25

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4050	46.66	-3.31	-0.28	-2.43	29.537	17.118	-0.28	-17.05	54.18	54.59
4100	45.68	-3.4	0.14	-2.01	29.102	16.577	0.14	-18.23	54.65	54.9
4150	49.38	-3.06	0.39	-1.76	31.376	18.005	0.39	-22.26	54.24	54.65
4200	59.77	-2.24	1.54	-0.61	37.658	22.113	1.54	-20.93	54.33	54.56
4250	107.86	0.33	4.96	2.81	68.804	39.057	4.96	-18.82	57.13	56.88
4300	79.87	-0.98	4.55	2.4	52.246	27.627	4.55	-22.58	56.6	56.6
4350	51.02	-2.92	3.17	1.02	34.591	16.426	3.17	-23.53	55.85	55.88
4400	38.95	-4.09	2.33	0.18	27.581	11.372	2.33	-23.16	56.15	56.33
4450	26.81	-5.72	0.68	-1.47	19.694	7.112	0.68	-21.32	55.99	56.41
4500	24.77	-6.06	0.25	-1.9	18.479	6.29	0.25	-22.43	54.66	55.3
4550	27.39	-5.62	0.4	-1.75	20.685	6.703	0.4	-24.02	54.96	55.53
4600	23.04	-6.38	-0.65	-2.8	17.469	5.572	-0.65	-28.7	55.05	55.65
4650	23.74	-6.24	-0.38	-2.53	17.914	5.828	-0.38	-28.58	56.08	56.92
4700	33.75	-4.72	1.27	-0.88	25.304	8.442	1.27	-19.69	59.35	59.13
4750	33.13	-4.8	1.94	-0.21	25.863	7.265	1.94	-18.63	55.93	56.25
4800	29.58	-5.29	1.71	-0.44	23.681	5.897	1.71	-19.46	55.94	56.47
4850	23.92	-6.21	1.18	-0.97	19.671	4.245	1.18	-19	55.74	56.25
4900	24.88	-6.04	1.53	-0.62	20.972	3.904	1.53	-18.49	55.7	55.99
4950	25.91	-5.87	1.84	-0.31	22.185	3.72	1.84	-19.2	55.16	55.18
5000	30.61	-5.14	2.66	0.51	26.462	4.148	2.66	-19.34	54.98	55.11
5050	30.49	-5.16	2.43	0.28	26.366	4.122	2.43	-18.09	54.72	54.84
5100	27.72	-5.57	2.01	-0.14	24.107	3.611	2.01	-20.14	55	54.91
5150	23.35	-6.32	1.45	-0.7	20.361	2.99	1.45	-21.73	54.78	54.67
5200	20.78	-6.82	1.04	-1.11	17.993	2.784	1.04	-27.68	54.75	54.81
5250	20.06	-6.98	0.76	-1.39	17.028	3.033	0.76	-22.09	54.73	54.93
5300	19.77	-7.04	0.6	-1.55	16.152	3.62	0.6	-21.03	54.5	54.73
5350	24.01	-6.2	1.52	-0.63	19.002	5.004	1.52	-20.62	55.24	55.51
5400	29.14	-5.36	2.37	0.22	22.214	6.925	2.37	-21.61	55.55	56.05
5450	28.43	-5.46	1.95	-0.2	20.873	7.555	1.95	-21.81	55.31	56.11
5500	28.9	-5.39	1.94	-0.21	21.086	7.816	1.94	-22.92	55.63	56.65
5550	32.31	-4.91	2.58	0.43	23.886	8.424	2.58	-23.63	56.59	57.66
5600	31.5	-5.02	2.67	0.52	23.84	7.664	2.67	-26.5	57.26	57.88
5650	33.21	-4.79	2.99	0.84	25.469	7.745	2.99	-29.71	57.84	58.26
5700	35.75	-4.47	3.18	1.03	27.078	8.668	3.18	-24.89	57.82	58.3
5750	35.35	-4.52	2.57	0.42	26.185	9.169	2.57	-19.94	57.87	58.19
5800	34.45	-4.63	2.26	0.11	24.76	9.69	2.26	-17.96	57.78	58.22
5850	37.81	-4.22	3.08	0.93	26.612	11.203	3.08	-16.65	58.5	59.08
5900	34.87	-4.58	3.02	0.87	24.073	10.8	3.02	-19.04	58.59	59.29
5950	35.81	-4.46	3.26	1.11	23.582	12.232	3.26	-22.58	59.52	60.37
6000	36.14	-4.42	3.72	1.57	23.013	13.128	3.72	-16.06	61.25	62.09

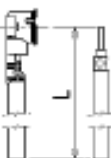
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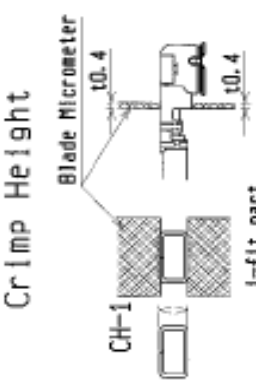
Part No. of non halogen free type		20278-101R-08	20278-111R-08	20278-101R-13	20278-111R-13	20278-101R-32	20278-111R-32	20278-101R-18	20278-111R-18
Part No. of halogen free type		20278-102R-08	20278-112R-08	20278-102R-13	20278-112R-13	20278-102R-32	20278-112R-32	20278-102R-18	20278-112R-18
Housing color		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	90187-013C	90187-032C	90187-032C	90187-032C	90233-018	90232-018
P/N of seal auto termination machine		90213-008C	90213-013C	90213-013C	90213-032C	90213-032C	90213-032C	90233-018	90232-018
Sect. M-M		1.68	1.12	1.68	1.51	2.29	1.95	2.71	1.9
Sect. L-L		1.72	1.19	2.28	1.51	2.37	1.71	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

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.

Cable cut length



Crimp Height



Blade Micrometer

CH-1

CH-2

CH-3

1-fit part

Outer conductor part

Jacket part

I-PEX

Interconnect and Packaging Engineering TOKYO, JAPAN

TITLE

REF series wire coaxial connector plus vertical forward contact : solid plating

SCALE UNIT

NO. No.

20278

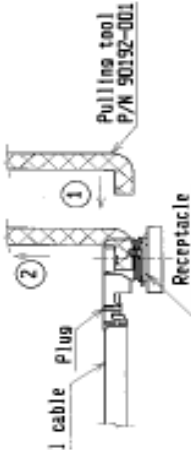
General

SHEET REV.

3/4 19C

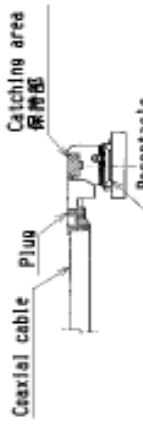
5-2 Unmating.

(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

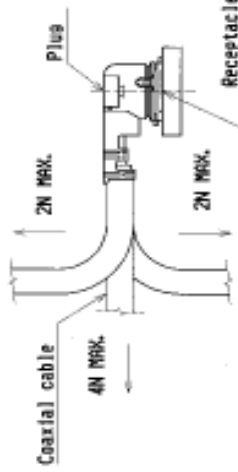
Standards: Less than 10% from total numbers of outer conductor
(Numbers of outer conductor's crimp over from outer conductor's barrel)

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の中心軸を合わせ、
であるだけ直に挿入して下さい。
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
の材質
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
の材質
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.
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5-3 外側導体はみ出し量

外側導体はみ出し量規定
: 外側導体ケーブル本数
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、導体本数の
原因になりませんので、熱に
よりハウジングを溶融させな
いよう注意してください。

6. コネクタは Pb-free
である

5-4 Mating operation.

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.

5-5 Suggestions for mating & unmating operation.

5-1 コネクタ挿入時
PlugとReceptacleの中心軸を合わせ、
であるだけ直に挿入して下さい。
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。

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