



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

承认书 APPROVAL

版本: A1

客 户
CUSTOMER:

品 名 规 格
DESCRIPTION: 真天线 **2.4G** 天线-IPEX

料 号
PART NO.: YS030-0128

客 户 料 号
CUS PART NO.:

日 期
D A T E: 2025-5-13

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	4.47dBi	GAIN	4.47dBi
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	Input connector	IPEX
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%

产品图片:



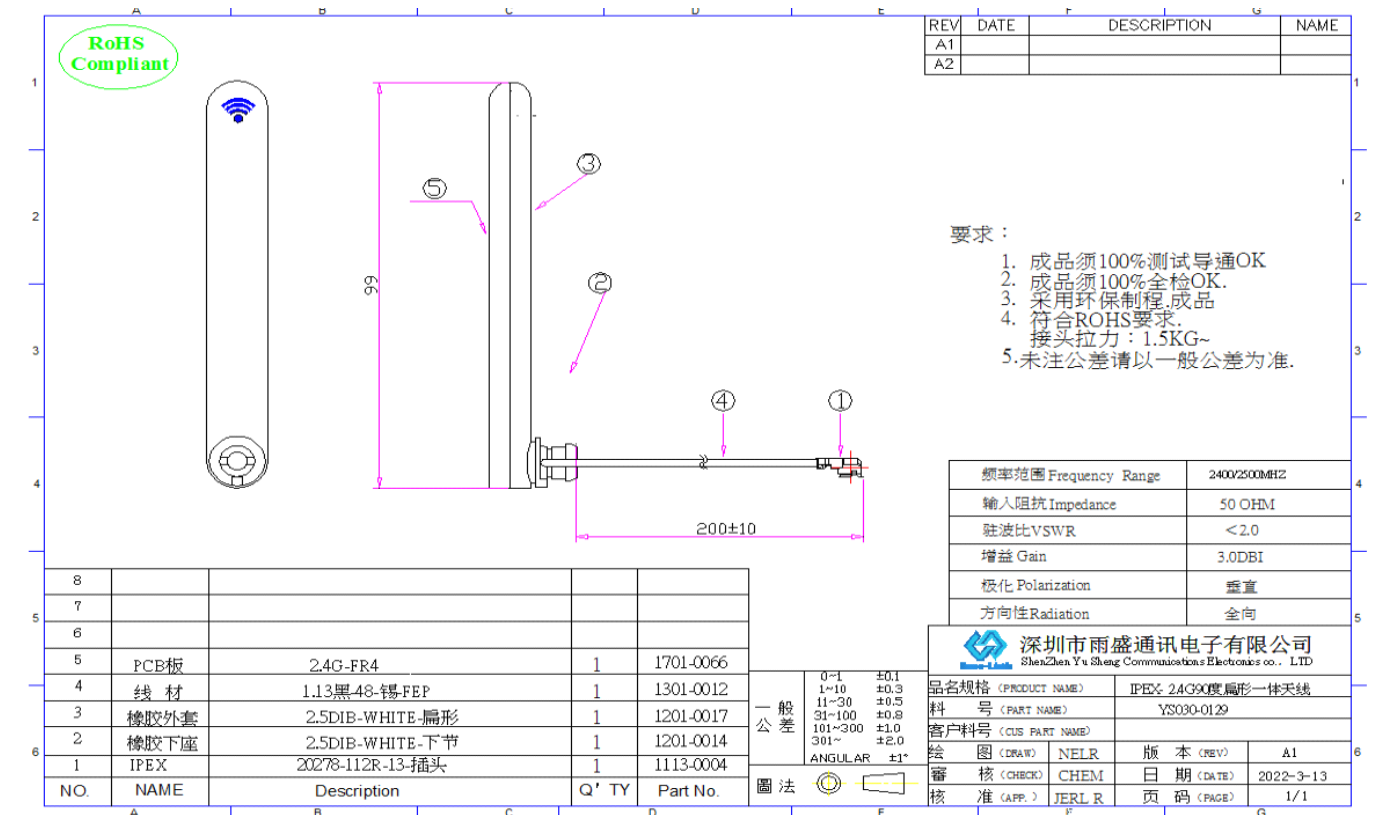
深圳市雨盛通讯电子有限公司

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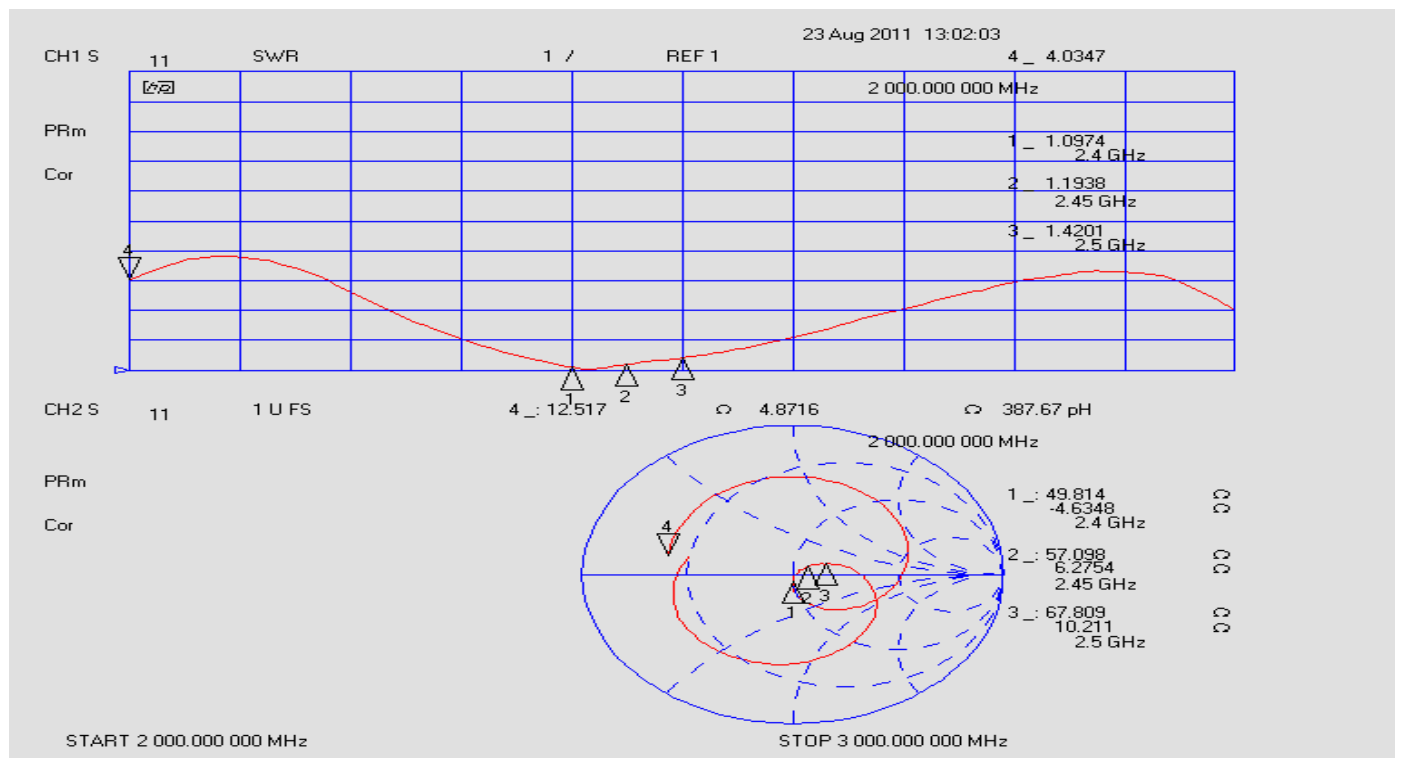
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工程图



网络分析测试:

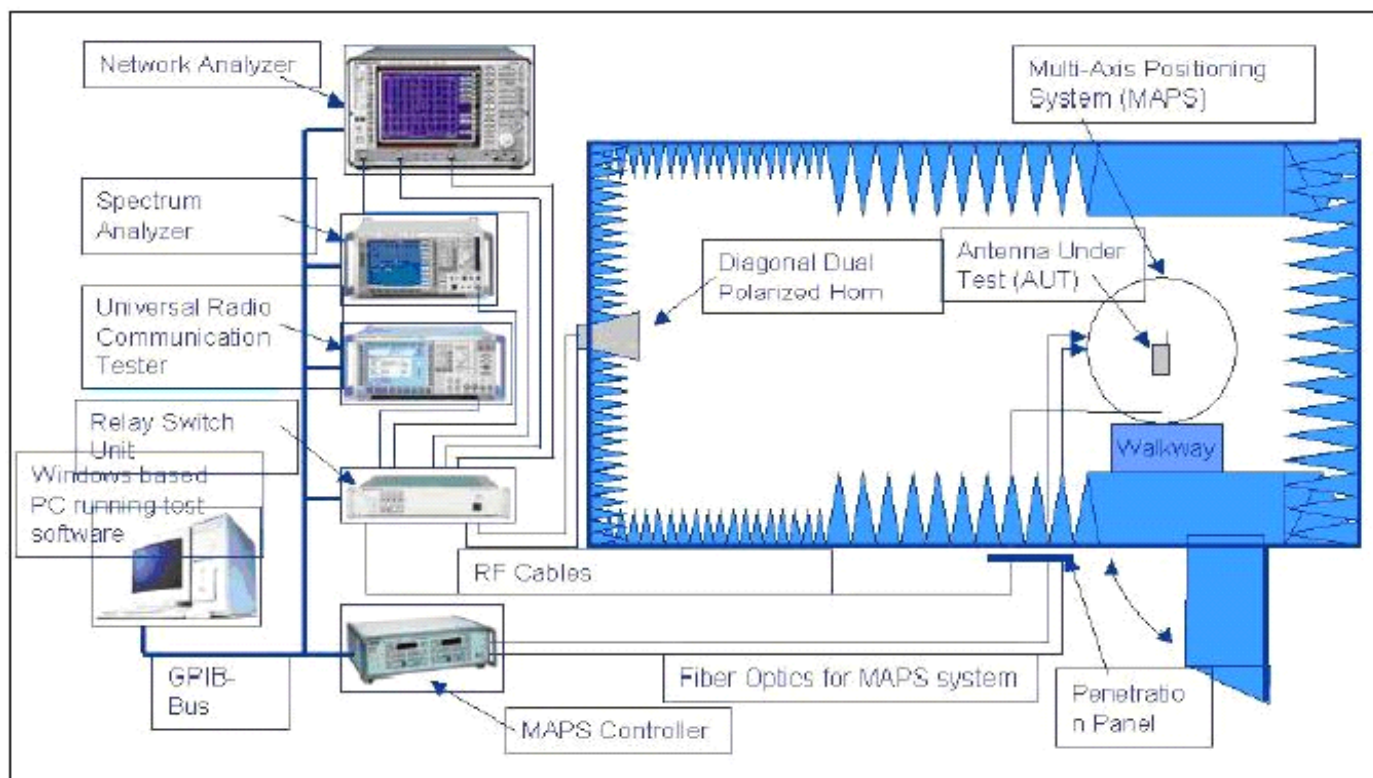
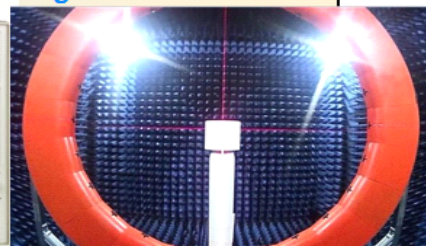
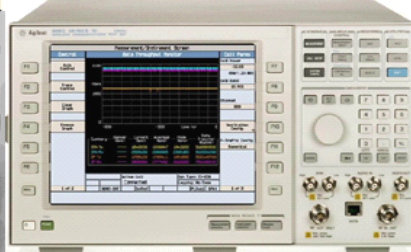


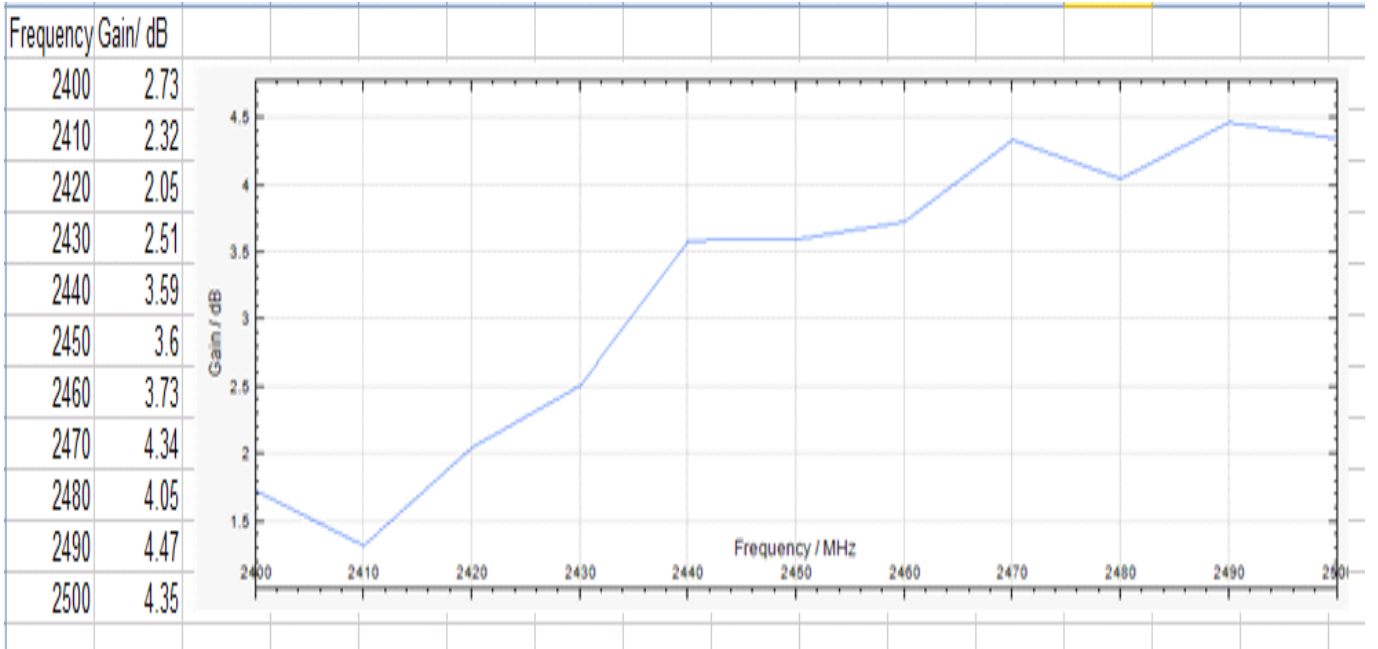
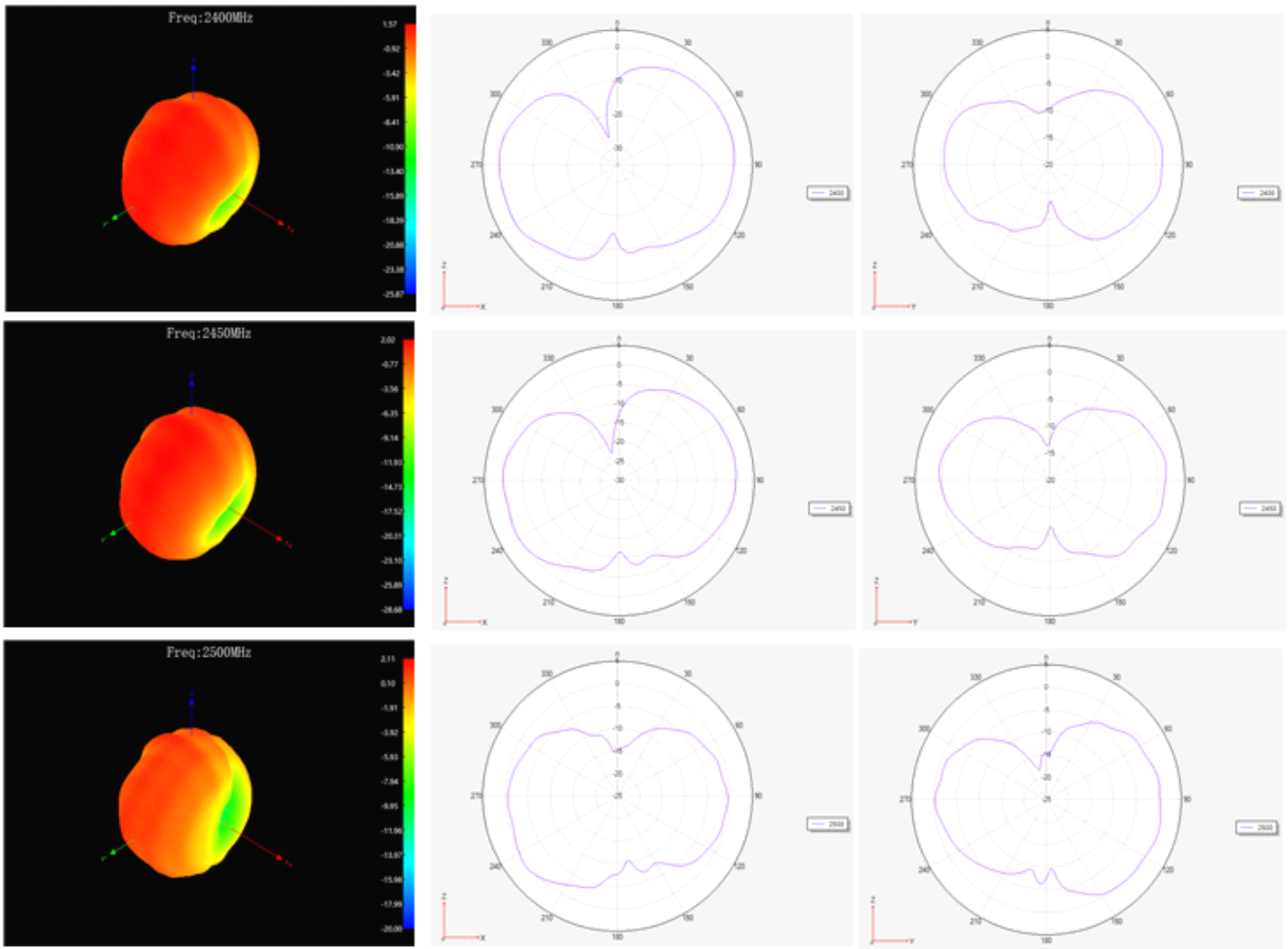
工厂地址: 深圳市龙岗区横岗镇坳背一村坳西路 102 号 3-4 楼

增益测试(DBI-TEST):

• 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





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)		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		Interconnect and Packaging Electronics TOKYO, JAPAN	General General	MF series ultra coaxial connector plus vertical (ground contact: gold plating)	UNIT: mm SCALE: 6/1 20278	REV. 1/4 19C																																																																																
DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01	DESIGN BY: K. Ohguchi DATE: JUN/13/01

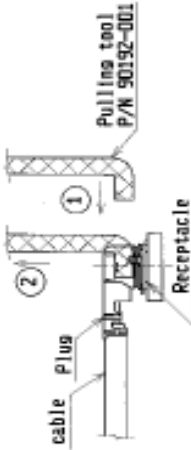
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Part No. of halogen free type		20278-102R-08	20278-112R-08	20278-102R-13	20278-112R-13	20278-102R-32	20278-112R-32	20278-102R-18	20278-112R-18
Housing color		White	White	Black	Black	Black	Black	White	White
Applicable cable nominal dimension		2.09±0.1 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	90232-018	90187-008C	90187-013C	90187-032C	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.

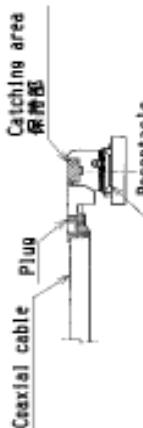
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REV ECH	BY	DATE	APP	
REV. RECORD				
SERIES No.	2814			
CUSTOMER				
INSPECTION				
SCALE	UNIT	mm		
DWG. No.	20278			
SHEET	REV.	3/4	19C	
General				

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.



(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.



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.

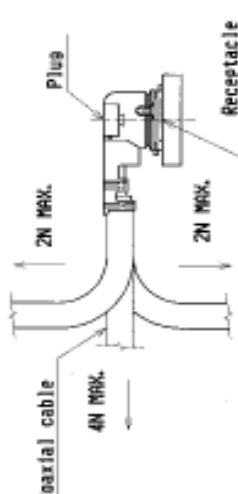
6. This is 'Pb-free' connector.

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.
(4) Packing : reel
(5) Mating partner part No. : 20279-001E-01, 20441-001E-01
(6) Permissible load of cable at mating

5-1 Mating.

Please note 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.

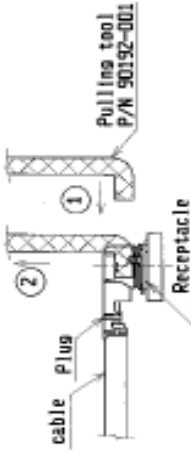


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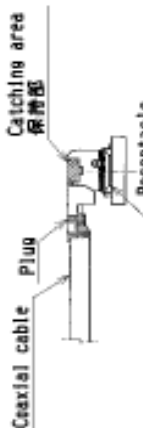
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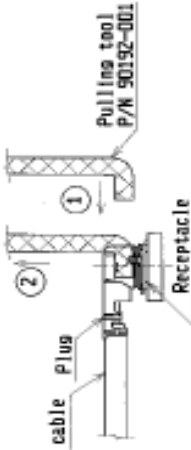
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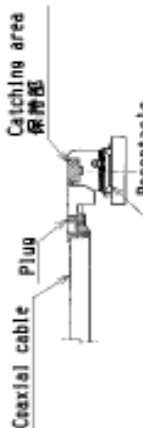
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