



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: **2.4G 5DB white blade antenna out 150MM**

料 号
PART NO.: **YS030-0055**

客 户 料 号
CUS PART NO.:

日 期
D A T E: **2023-10-16**

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:

Manufacturer: Shenzhen Yu Sheng Communications Electronics co., LTD

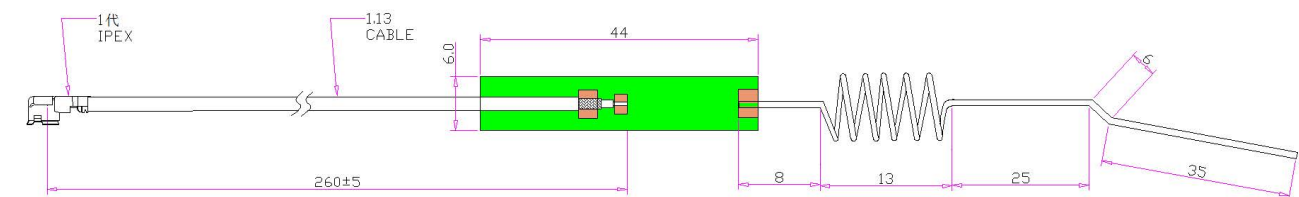
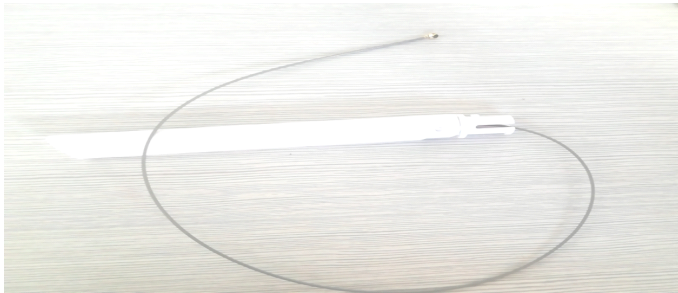
Address: Floor 3-4, No. 102, Ao West Road, Ao Bei Yi Village, Henggang Town, Longgang District, Shenzhen

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

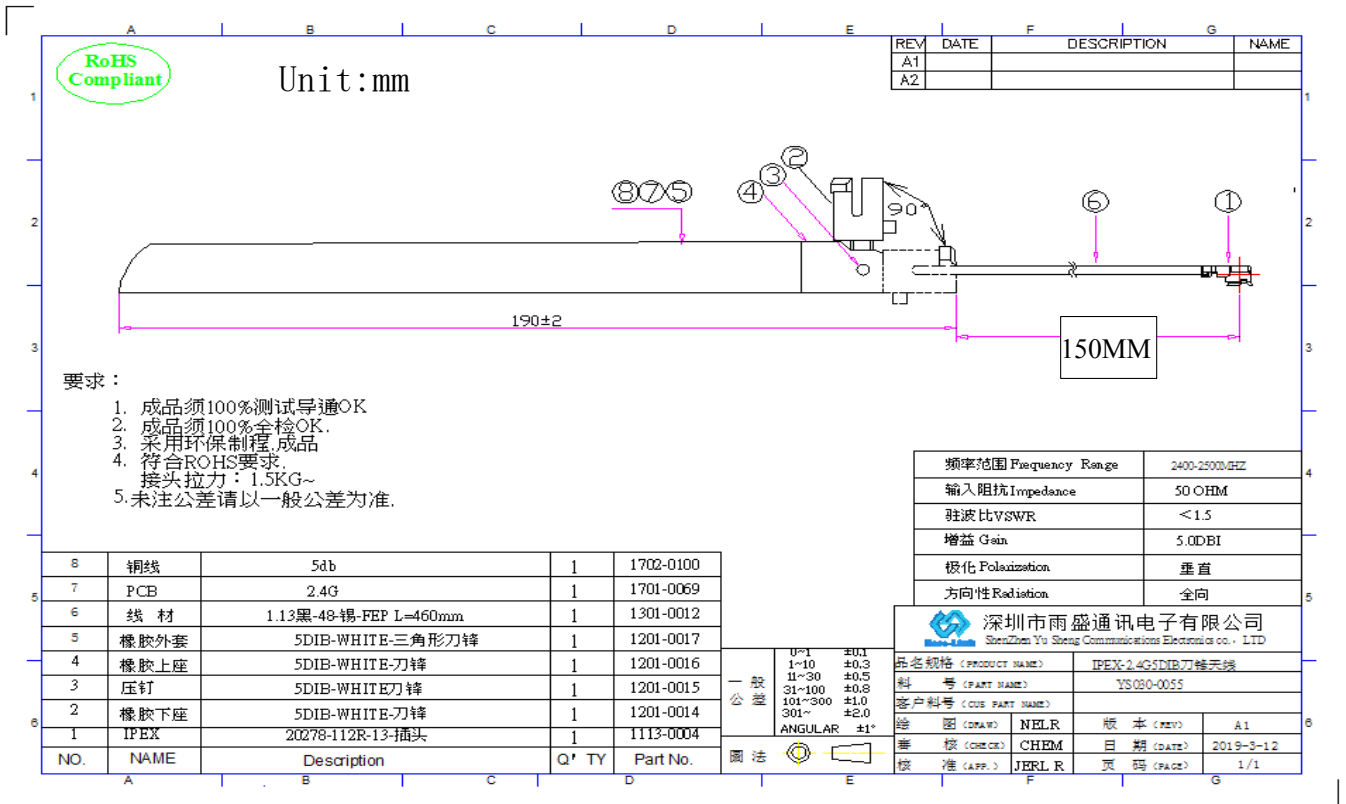
Technical parameters of electrical

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	5DBI	GAIN	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	Input connector	IPEX
天线长度	150mm	Cable length	150mm
工作温度	-40℃ ~ +85℃	Working Temperature	-40℃ ~ +85℃
工作湿度	20~80%	Working Humidity	20~80%

Product picture:mm



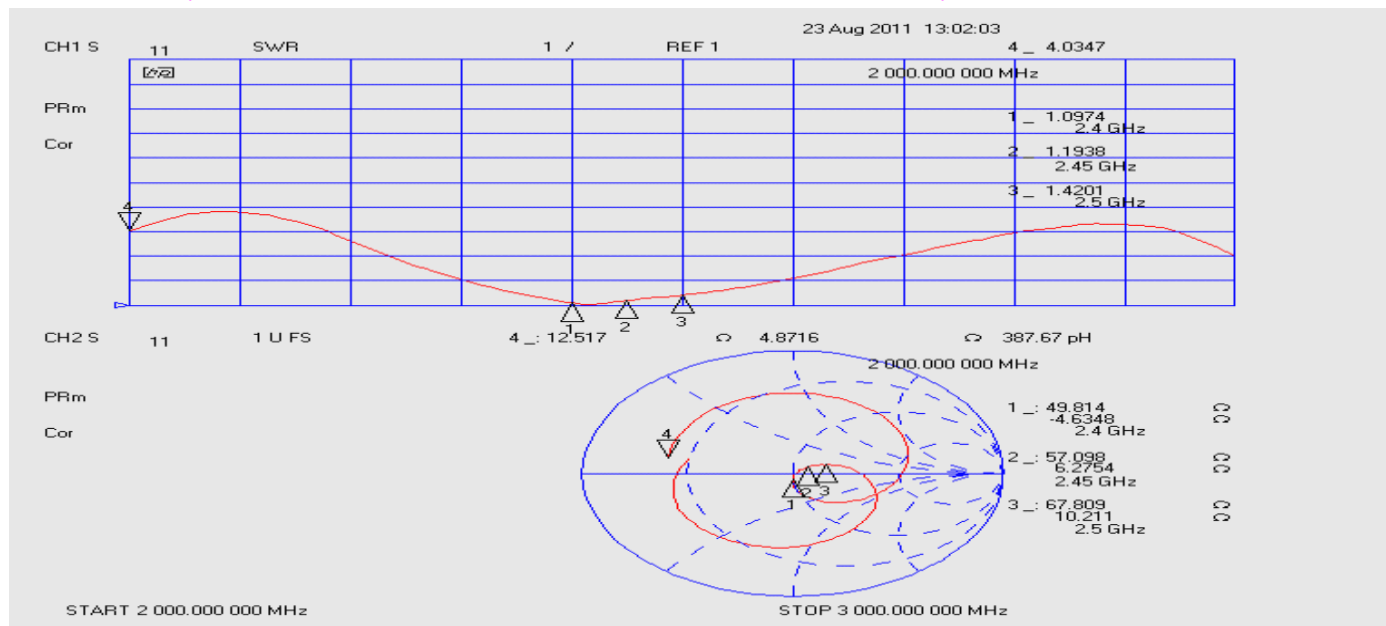
Dimension drawing



Environmental performance testing

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

Network analysis Test:



2.4G active data:

2.4G有源数据:

WIFI2.4G b模			
Test	WIFI		
Result	1	6	11
TRP(dBm) 11MBps	12.96	12.58	12.93
Test	WIFI		
TIS(dBm) 11MBps			-74.73
WIFI2.4G g模			
Test	WIFI		
Result	1	6	11
TRP(dBm) 54MBps	11.45	11.05	11.53
Test	WIFI		
TIS(dBm) 54MBps			62.57
WIFI2.4G N模			
Test	WIFI		
Result	1	6	11
TRP(dBm) MCS0	13.45	13.14	13.96
Test	WIFI		
TIS(dBm) MCS0			-79.99



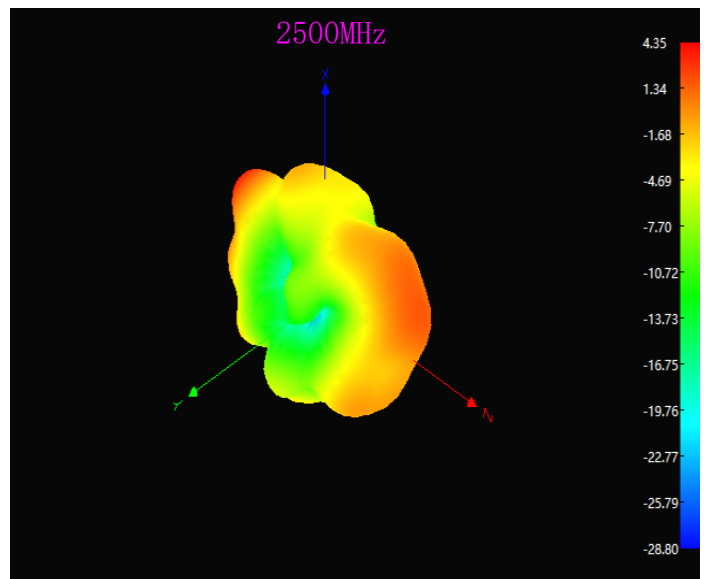
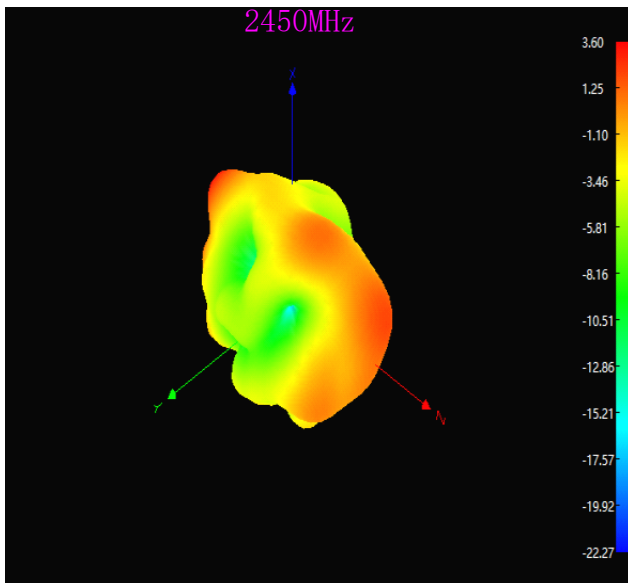
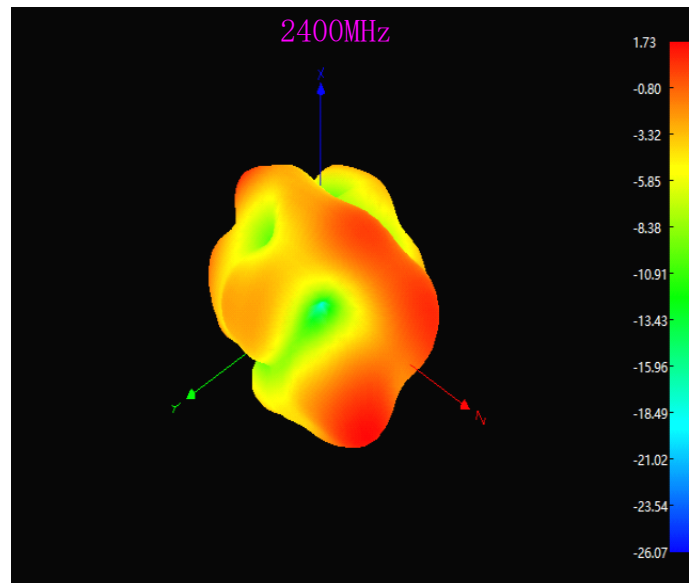
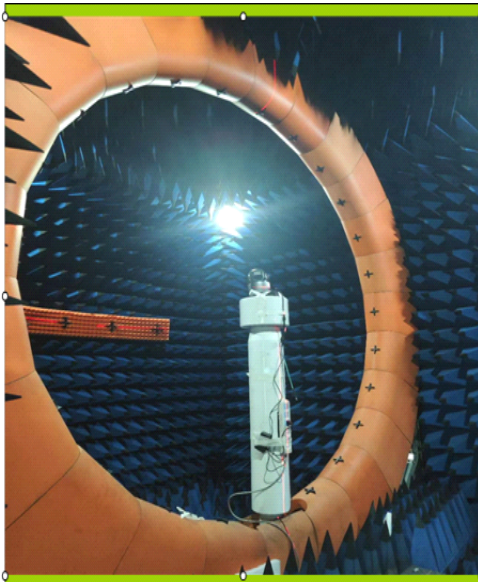
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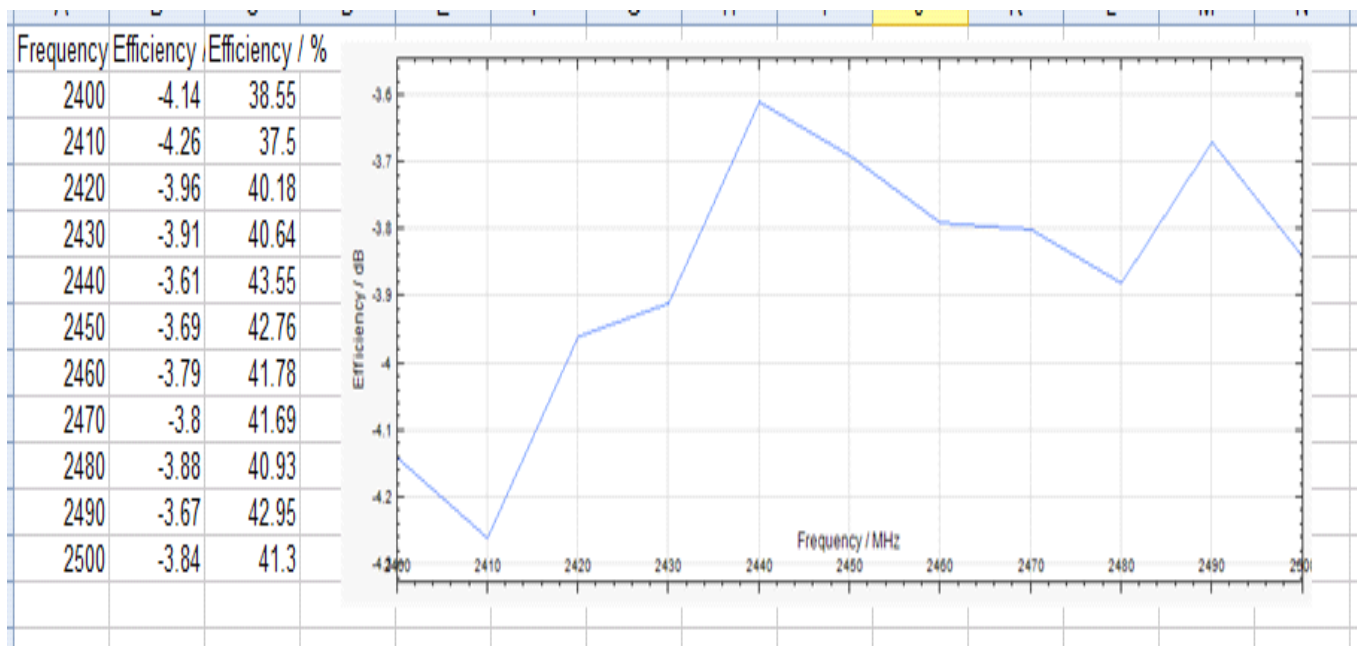
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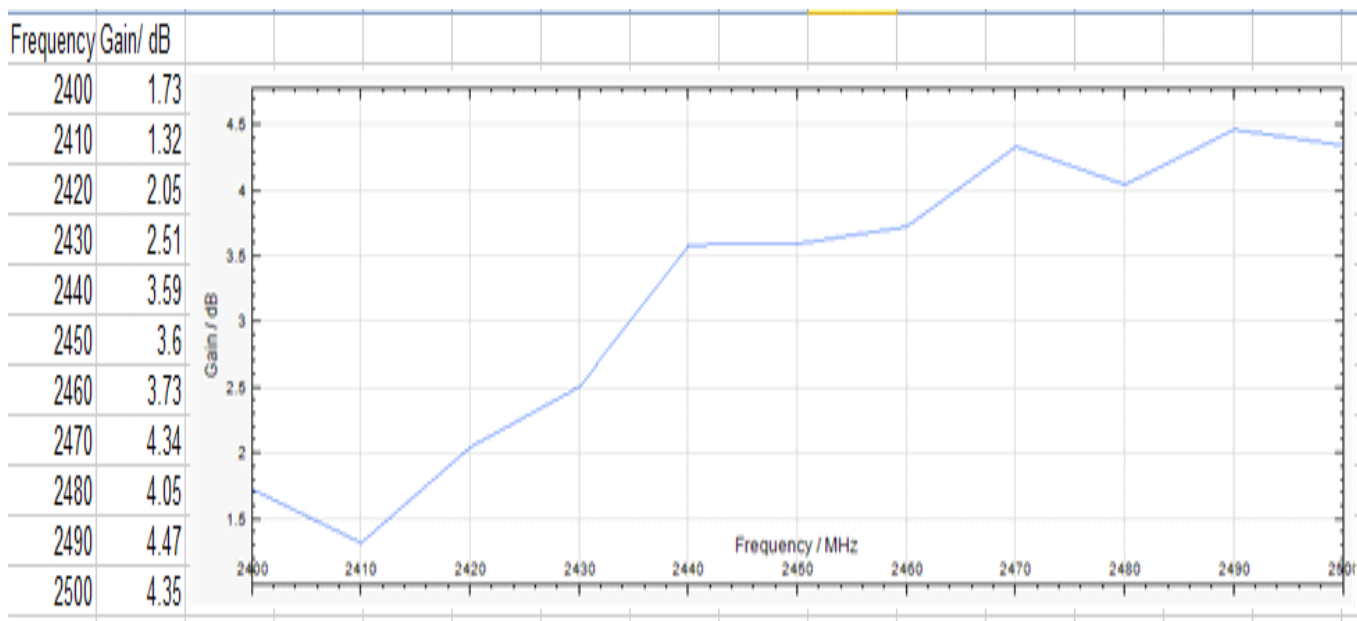
Gain Test:



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



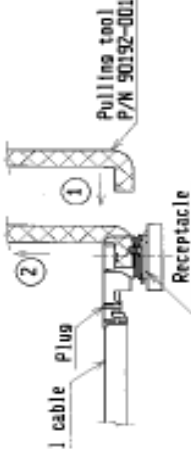
Gain: ANT1/ANT2



Part No. of non halogen free type		20270-101R-08	20270-101R-13	20270-101R-32	20270-101R-18
Part No. of halogen free type		20270-102R-08	20270-102R-13	20270-102R-32	20270-102R-18
Housing color		White	Black	Black	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
Jacket		φ0.81 Nominal φ0.65 φ0.4 φ0.4	φ1.13 Nominal φ0.93 φ0.68 φ0.68	φ1.32 Nominal φ1.12 φ0.66 φ0.66	φ1.8 Nominal φ1.95 φ0.84 φ0.84
Outer conductor silver or tin plating		Inner conductor silver plating			
Dielectric core					
Diagram					
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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

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

Receptacle

Catching area

5-3 Crimp over standards of outer conductor

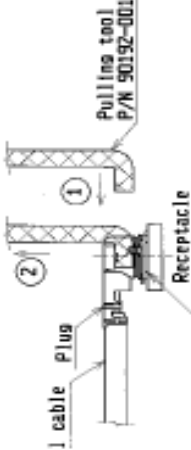
Standards: Less than 10% from total numbers of outer conductor
(Numbers of outer conductor's crimp over from outer conductor's barrel)

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.

5-2 コネクタ抜き方

(1) 抜き金具を用いる場合
下図のようにて、できるだけ垂直に引き抜いて下さい。



Coaxial cable Plug

Receptacle

(2) 手で直接引き抜く場合
下の図の保持箇所をつかみ、できるだけ垂直に引き抜いて下さい。



Coaxial cable Plug

Receptacle

Catching area

5-3 外導体はみ出し量

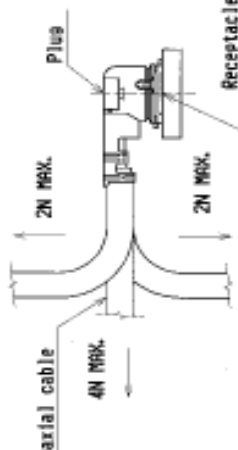
外導体はみ出し量規定
: 外導体はみ出し量の10%以下
(外導体はみ出し量の10%以下)

5-4 熱収縮チューブについて
熱収縮チューブで外導体はみ出し量を減らす場合は、熱収縮チューブの温度に注意し、熱収縮チューブが溶けないように注意して下さい。

6. キコネクタは「Pb-free」である

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、できる限り垂直に挿入して下さい。
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、注意をお願いします。

5. Suggestions for mating & unmating 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. コネクタの結合および抜き方の注意

5-1 コネクタ挿入時
PlugとReceptacleの中心合わせを、できる限り垂直に挿入して下さい。
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、注意をお願いします。

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

1. 材料

(1) ハウジング: PBT, UL94V-0
(2) コネクタ
の材質
金メッキ0.1μm MIN.
下層 ニッケル1.27μm MIN.
(3) グランドコネクタ
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. 対応相手 part No.
: 20279-001E-01, 20441-001E-01
4. コネクタの結合時のケーブルに対する荷重

GENERAL TOLERANCE

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

DESIGN BY DATE

CHK'D BY DATE

APP'D BY DATE

REV. RECORD

SERIES No. 2814

CUSTOMER COPY

PROJECTION SCALE UNIT

MM

20278

General

REV. 4/4 19C