

产品描述: TR6.3×0.8H2-1 CONNECTOR

Product Description: TR6.3×0.8H2-1 Connector

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 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.	<u>制定 Edit:</u> 杨培 2019.01.23	<u>产品名称 Product Name:</u> TR6.3×0.8H2-1
	<u>审核 Check:</u> 王国英 2019.01.23	<u>编号 Document No.:</u> PS3823
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产品规格书

PRODUCT SPECIFICATION

1.更改履历 Change History

序号 No.:	版本号 Version No.	更改前描述 Description Before Modification	更改后描述 Description After Modification	日期 Date
1	1	旧版规格书	新版规格书	2015.10.20
2	2	插拔力不符, 端子固定力 76N Min, 其他	插拔力调整, 端子固定力 80N Min, 其他数据调整,按新版本调整	2016.04.01
3	3	接触电阻只有试验后的技术要求	接触电阻增加试验前的技术要求	2017.01.17
4	4	额定电流: 7A	按对应导线设定额定电流, 增加温升要求	2018.3.15
5	5	/	更改图纸商标 LOGO	2019.01.23
6				
7				

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2 适用范围 Scope

本产品规格书适用于浙江合兴电子元件有限公司生产的快速接插端子，产品名称：TR6.3×0.8H2-1。

This product specification covers the requirements for Receptacle Terminal, which is designed and manufactured by CWB Electronics(ZheJiang) Co.,LTD. P/N: TR6.3×0.8H2-1

3.产品描述 Product Description

TR6.3×0.8H2-1 系列产品为家电连接器产品，产品部件组成如下：

The TR6.3×0.8 H2-1series connector is designed for home appliances connection. Part checklist as following form:

Name	Part name	Notes
插簧 Straight Type Receptacle	TR6.3×0.8H2-1	Brass Tin Plated

4.相关标准 Related Standards

以下参考文件是本规格书的一个组成部份。若本规格书中的要求与产品图纸发生冲突，则产品图中的要求为优先；若本规格书中的要求与参考文件中的要求冲突，则本规格书为优先。

The following documents form a part of this specification. In the event of conflict between the requirements of this specification and the product drawing, the product drawing shall take precedence. In the event of conflict between the requirements of this specification and the referenced documents, this specification shall take precedence.

GB/T 2421	电工电子产品环境试验 第一部分 总则 Testing Method for Environmental of Electrical Connectors Class 1: General Principles
GB/T 2423	电工电子产品环境试验方法 Testing Method for Environmental of Electrical Connectors
GB/T 2424	电工电子产品环境试验导则 Testing Method for Environmental of Electrical Connectors
GB/T 5095	电子设备用机电元件基本试验规程及测量方法 Testing procedure/Method for components of electric equipment

产品符合合兴企标 Q/HX J1150001 《产品及其所用材料的环保要求》 I 类或顾客要求。

The connector should comply with CWB standard Q/HX J1150001 Class I or customer's requests.

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5. 参数范围 Parameter Ratings:

额定电流 Rated Current	AWG 18# 7A	AWG 16# 10A	AWG 14# 15A
额定电压 Rated Voltage	250V [AC(有效值 rms)/DC]		
使用温度范围 Operating temperature range	-25°C ~ +85°C (含温度上升)		
适用线型 Applicable wires	Wire Size: AWG18~AWG14 (0.82mm ² -2.08 mm ²) Insulation Diameter: 2.05mm-3.5mm		

6. 产品性能 Performance

6.1 机械性能 Mechanical

序号 No.	项 目 Item	测试条件 Test Condition	规 格 Requirement		
6.1.1	外观 Appearance	目测 Checking by eye 视力: 1.0 以上 Eyesight: > 1.0 照明: (200~300) lx Lamp: (200~300) lx 目测距离: (0.3~0.5) m Space: (0.3~0.5) m GB/T 5095.1 Method 1a	金属件表面无锈蚀、氧化、无明显的机械损伤等缺陷。 Metal part: bright and even surface without rust, oxide, fog and obvious physical damage defects is acceptable.		
6.1.2	插入力与拔出力 (去锁扣) Insertion and Withdrawal Force for Tab in the Contact. (without lock)	固定插片 (6.3×0.8) 和测力计, 在连接器轴线方向插入和拔出; 速度不大于25mm/min. Apply Axial withdraw force on the tab in the straight type receptacle at a rate of 25mm /min. GB/T 5095.7 Method 13B / EIA-364-13B	首次插入力 (First Insertion) Max	首次拔出力 (First Retention) Min	六次拔出力 (6th Retention) Min
			35N	7N	6N
6.1.3	端子固定力 Terminal Retention Force	固定插片 (6.3×0.8) 和测力计, 在连接器轴线方向插入和拔出; 速度不大于25mm/min. Apply Axial withdraw force on the tab in the straight type receptacle at a rate of 25 ± 3 mm per minute. GB/T 5095.7 Method 13B / EIA-364-13B	80N Min		

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产品规格书

PRODUCT SPECIFICATION

6.1.4	压着部位抗张强度 Crimping Pull Out Force	在试验装置夹头中固定试验样品, 在连接的轴线方向施加张力;速度不大于 25mm/min	AWG 18#:	89N Min.
		Fix the crimped terminal, Axial pull out force on the terminal at a rate less than 25 mm per minute.	AWG 16#:	133.5N Min
		GB/T5095.8 Method 16D / EIA-364-08B	AWG 14#:	222.5N Min.

6.2 电气性能 Electrical

6.2.1	接触电阻 Low Level Contact Resistance	插入 6.3×0.8 插片,用小功率电路进行测试 Insert and withdraw standard tab(6.3×0.8) and measure by dry circuit. GB/T 5095.2 Method 2b / EIA-364-23B	0.01 Ω Max. (Initial) 0.02 Ω Max. (Final)
6.2.2	温升 Temperature Rise	插合 6.3×0.8 插片后, 通以相应导线最大允许电流, 测温度的差值 Mated connectors and measure the temperature rise of contact when the maximum AC rated current is passed. GB/T 5095.3 Method 5a / EIA-364-70A	Δ30°C Max.

6.3 环境性能 Environmental

序号 No.	项 目 Item	测试条件 Test Condition	规 格 Requirement
6.3.1	耐高温 Heat Resistance	把试验样品放在 105±2℃ 的空气中放置 96 小时, 再回到室温中放置 1-2 小时测定 Make terminal be exposed to the condition of 105±2℃ for 96 hours. Recovery time 1~2 hours GB/T 5095.6 Method 11i / EIA-364-17B	外观: 无损伤 (参照6.1.1) Appearance: No damage.(refer to 6.1.1) 接触电阻: 0.02Ω Max. Contact resistance: 0.02Ω Max.
6.3.2	耐低温 Cold Resistance	把试验样品放在-40±2℃ 的空气中放置 96 小时, 再回到室温中放置 1-2 小时测定 Make terminal be exposed to the condition of -40±2℃ for 96 hours. Recovery time 1~2 hours GB/T 5095.6 Method 11J / EIA-364-17B	外观: 无损伤 (参照6.1.1) Appearance: No damage.(refer to 6.1.1) 接触电阻: 0.02Ω Max. Contact resistance: 0.02Ω Max.
6.3.3	盐雾 Salt Spray	把试验样品从试验箱顶悬挂下来, 采用浓度为 (5±1)%(质量百分比)的氯化钠溶液, 在(35±2)℃ 温度下连续雾化 24h,试验后用流动的蒸馏水轻轻洗去表面沉积物。常温常湿条件下恢复 1~2h 24 hours spray, at temp 35+/-2°C, Salt NaCl mist (5±1)% After test wash parts and return to room ambient for 1~2h hours GB/T 5095.6 Method 11F /EIA-364-26B	外观: 无损伤(五金件应无露出底金属的严重锈蚀。) Appearance: No Damage (No erosion with material exposed. And with plating material.) 接触电阻: 0.02Ω Max. Contact resistance: 0.02Ω Max.

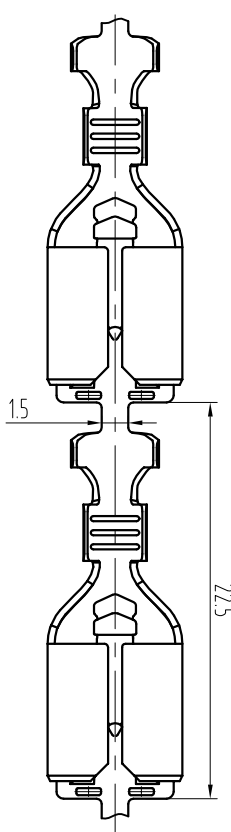
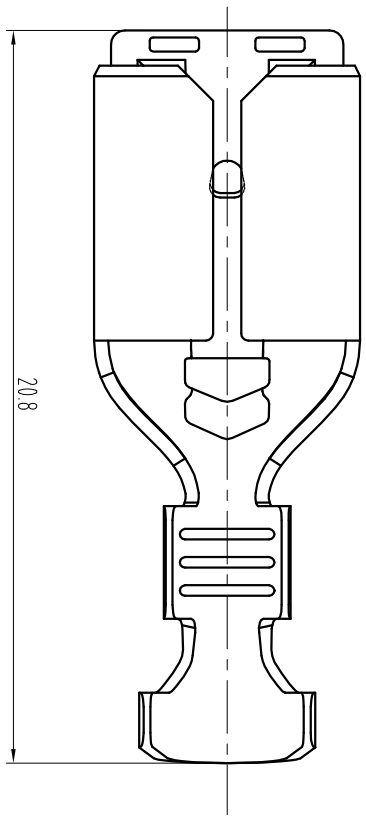
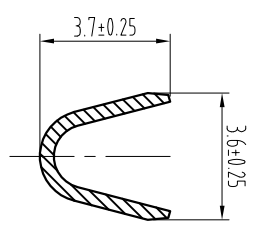
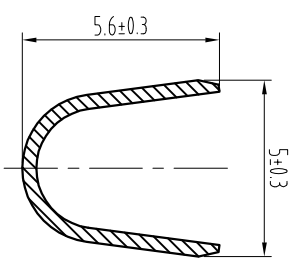
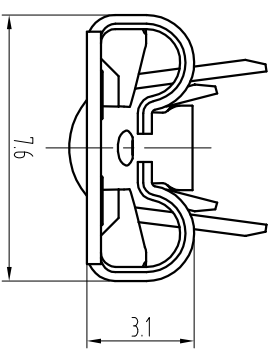
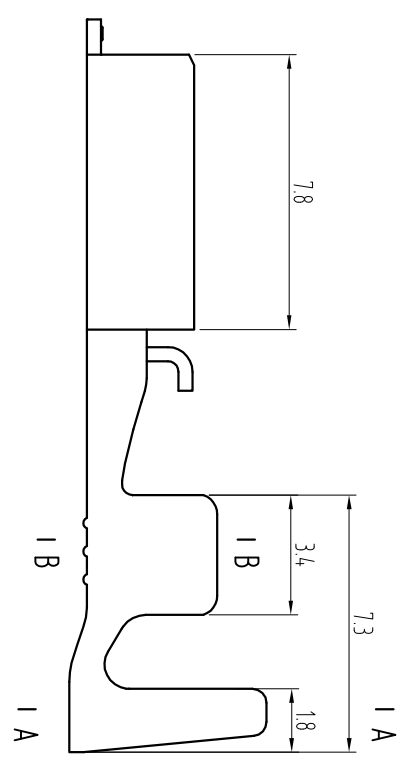
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7.测试分组 Test Sequences (Samples: 5PCS)

测试组 GROUP NUMBER	A	B	C	D	E	F
外观 Appearance	1	1	1,3	1,5	1,5	1,5
插入力与拔出力 (去锁扣) Insertion and Withdrawal Force for Tab in the Contact. (without lock)	2					
端子固定力 Terminal Retention Force		2				
压着部位抗张强度 Crimping Pull Out Force			2			
接触电阻 Low Level Contact Resistance				2,4	2,4	2,4
耐高温 Heat Resistance				3		
耐低温 Cold Resistance					3	
盐雾 Salt Spray						3

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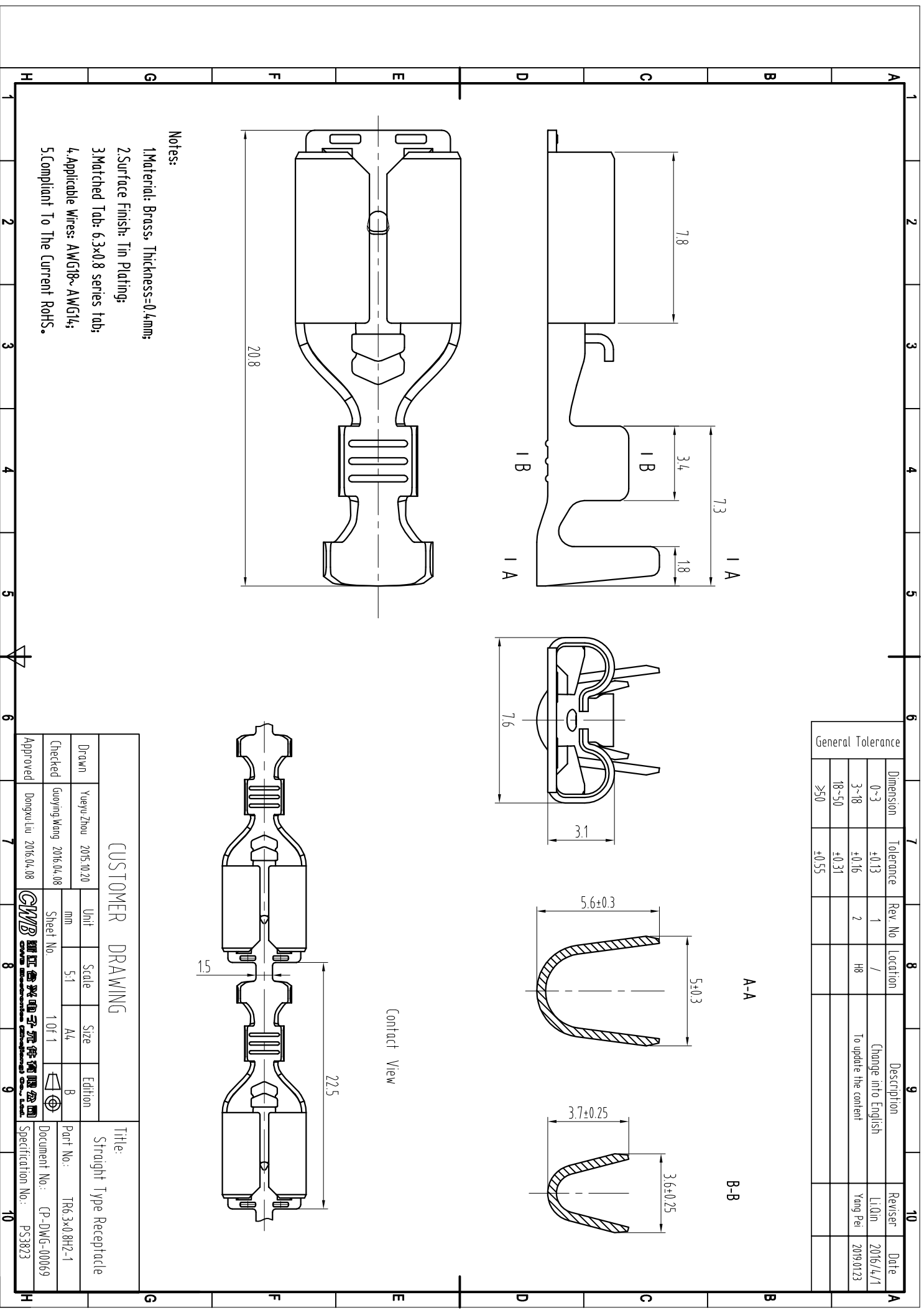
General Tolerance				Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3	±0.13	1	/	Change into English	Li Qin	2016/4/1			
	3~18	±0.16	2	H8	To update the content	Yang Pei	2019/01/23			
	18~50	±0.31								
	≥50	±0.55								



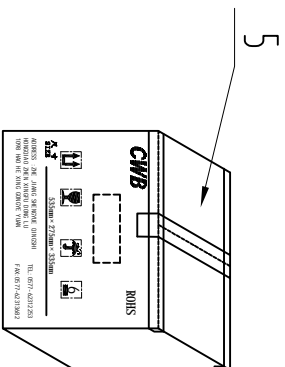
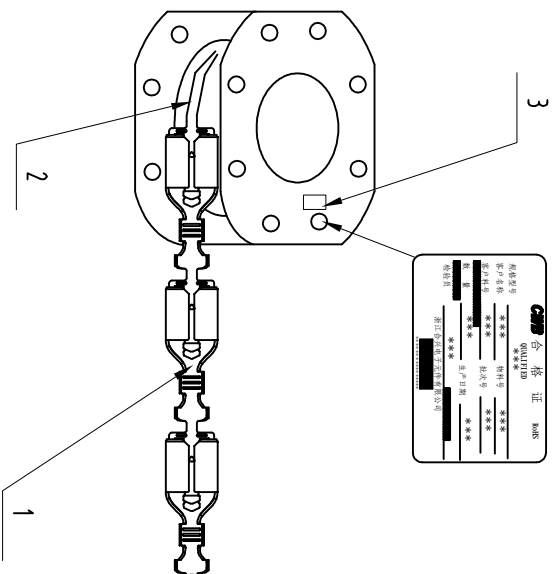
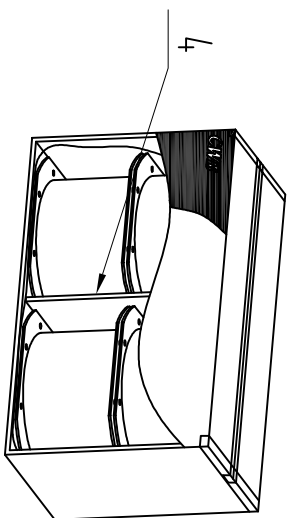
Notes:

- 1. Material: Brass, Thickness=0.4mm;
- 2. Surface Finish: Tin Plating;
- 3. Matched Tab: 6.3x0.8 series tab;
- 4. Applicable Wires: AWG18~ AWG14;
- 5. Compliant To The Current RoHS.

CUSTOMER DRAWING				Title:				
Drawn	YeYu Zhou	2015.10.20	Unit	Scale	Size	Edition	Straight Type Receptacle	
Checked	Guoying Wang	2016.04.08	mm	5:1	A4	B		
Approved	Dongxu Liu	2016.04.08	Sheet No.	1 OF 1				
			Part No.	TR6.3x0.8H2-1				
							Document No.:	CP-DWG-00069
							Specification No.:	PS3823



Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
0~3	±0.13	1	/	Change packing from vertical to horizontal type	Liqin	2016/4/1
3~18	±0.16	2	/	Change packing from horizontal to vertical type	Liqin	2017/1/17
18~50	±0.31	3	H8	To update the content	Yang Pei	2019.01.23
≥50	±0.55					



Number	Designation	remark
5	Packing box	16000pcs/box
4	Protective barrier	
3	Certification	
2	Packing reel	
1	TR6.3X0.8H2-1	4000pcs/reel

CUSTOMER DRAWING

Title: Packaging Specification of Straight Type Receptacle

Drawn	Yeyu Zhou	2015.10.20	Unit	mm	Scale	/	Size	A4	Edition	B	Part No.:	TR6.3X0.8H2-1
Checked	Guoying Wang	2016.04.08	Sheet No.	1 OF 1		1 OF 1		B		Document No.:	BZ-DWG-00028	
Approved	Dongxulu	2016.04.08										
Specification No.: PS3823												