



产品规格书

PRODUCT SPECIFICATION

产品描述: TR6.3×0.8O 系列横插型接插器

Product Description:TR6.3×0.8O Vertical Type Receptacle

目录

INDEX

1. 更改履历 Change History
2. 范围 Scope
3. 产品描述 Product Description
4. 相关标准 Related Standards
5. 参数范围 Parameter Ratings
6. 产品性能 Performance
7. 测试分组 Test Sequences

 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd. 中国·浙江省乐清市虹桥镇幸福东路 1098 号 合兴工业园 1098,Xingfu `Road(East),CWB Industrial Zone,Hongqiao,Yueqing,Zhejiang 325608,China Tel: 86-577-61313157 Fax: 86-577-62313682	制定 Edit: 杨 培 2019.01.23	产品名称 Product Name: TR6.3×0.8O 系列
	审核 Check: 王国英 2019.01.23	编号 Document No.: PS1218
	批准 Approval: 刘冬旭 2019.01.23	版本 REVISION: 2



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 PS1218	2017.5.22
2	2	/	更改图纸商标 LOGO	2019.01.23
3				
4				
5				
6				
7				

产品名称 Product Name:	TR6.3×0.8O 系列	编号 Document No.	PS1218	版本号 VersionNo.	2
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产品规格书

PRODUCT SPECIFICATION

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 TR6.3×0.80 系列快速接插器, 产品名称: TR6.3×0.80 系列横插型端子。

This product specification covers the requirements for Receptacle Terminal, which is designed and manufactured by CWB Electronics(ZheJiang) Co.,LTD. P/N: TR6.3×0.80 series vertical type receptacles.

3 产品描述 Product Description

TR6.3×0.80 系列产品为家电连接器产品, 产品部件组成如下:

TR6.3×0.80 series of products for electrical products, product components are as follows:

Name	Part name	Notes
端子 Vertical Type Receptacle	TR6.3×0.801	Brass, Tin over nickel plated
端子 Vertical Type Receptacle	TR6.3×0.802	Brass, Tin over nickel 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.

产品名称 Product Name:	TR6.3×0.80 系列	编号 Document No.	PS1218	版本号 VersionNo.	2
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PAGE: 3 / 7



产品规格书

PRODUCT SPECIFICATION

5 参数范围 Parameter Ratings:

额定电流 Rated Current	7A
额定电压 Rated Voltage	250V [AC(有效值 rms)/DC]
使用温度范围 Operating temperature range	-25℃~+85℃（含温度上升）
适用线型 Applicable wires	Wire Size: AWG 20~AWG 14（0.52mm ² -1.87mm ² ） Insulation Diameter: 1.8mm-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, etc.		
6.1.2	插入力与拔出 力 Insertion and Withdrawal Force of Receptacle	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25±3mm/min. Apply axial insert and withdraw on the tab (6.3×0.8) in the receptacle at a rate of 25±3 mm/ min. GB/T 5095.8 Method 16e / EIA-364-13B	首次插入力 (First Insertion Force) Max	首次拔出力 (First Withdrawal Force) Min	六次拔出力 (6th Withdrawal Force) Min
			67N	22N	13N
6.1.3	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25±3mm/min; Fix the crimped receptacle, Axial pull out force on the receptacle in the wire at a rate less than 25±3 mm/ min. GB/T5095.8 Method 16d / EIA-364-08B	AWG 20#: 57.9 N Min. AWG 18#: 89N Min. AWG 16#: 133.5N Min. AWG 14#: 222.5N Min.		
产品名称 Product Name:	TR6.3×0.8O 系列	编号 Document No.	PS1218	版本号 VersionNo.	2
PAGE: 4 / 7					



产品规格书

PRODUCT SPECIFICATION

6.1.4	机械振动 Vibration	插合连接器，串联在一直流电源上,电流100mA;并模拟正常工作状态; 振频为(10~55~10) Hz, 每个循环时间为1分钟, 振幅1.52mm。沿XYZ三轴正反方向各循环2h。 Mated connectors subjected to following vibration conditions, for a period of 2 hours in each of 3 mutually perpendicular axes, 100 mA current shall be applied. Frequency: (10~55~10) Hz/min. Amplitude: 1.52mm GB/T 5095.4 Method 6d / EIA-364-28D	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. 中断: 1μsec Max. <1μsec discontinuity
6.1.5	机械寿命 Durability	以每分钟 10 次的速度插拔 50 次。 Mated up to 50 cycles repeatedly by the rate of 10 cycles/minutes GB/T 5095.5 Method 9a / EIA-364-09C	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.

6.2 电气性能 Electrical

序号 No.	项 目 Item	测试条件 Test Condition	规 格 Requirement
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 2a / EIA-364-23B	0.01 Ω Max. (Initial) 0.02 Ω Max. (Final)
6.2.2	温升 Temperature Rise	插入 6.3×0.8 插片，通以最大允许电流，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℃ Max.

产品名称 Product Name:	TR6.3×0.8O 系列	编号 Document No.	PS1218	版本号 VersionNo.	2
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产品规格书

PRODUCT SPECIFICATION

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	连接器配合后，于 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。 Mated connectors 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	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。在常温常湿条件下恢复 1~2h 24 hours spray, at temp (35±2℃, Salt NaCl mist (5±1)% After test wash parts and return to room temperature for 1~2 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;使用预镀好的型材，其落料面允许有不影响其性能的轻微腐蚀。) Appearance: No Damage (No erosion with material exposed. And with plating material, slight erosion on the cutting surface is acceptable) 接触电阻：0.02Ω Max。 Contact resistance: 0.02Ω Max.

产品名称 Product Name:	TR6.3×0.8O 系列	编号 Document No.	PS1218	版本号 VersionNo.	2
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产品规格书

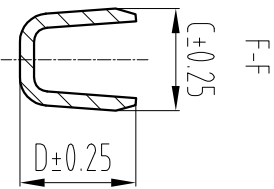
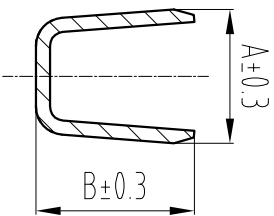
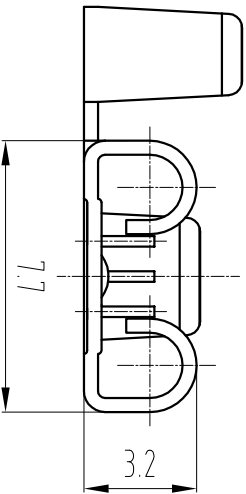
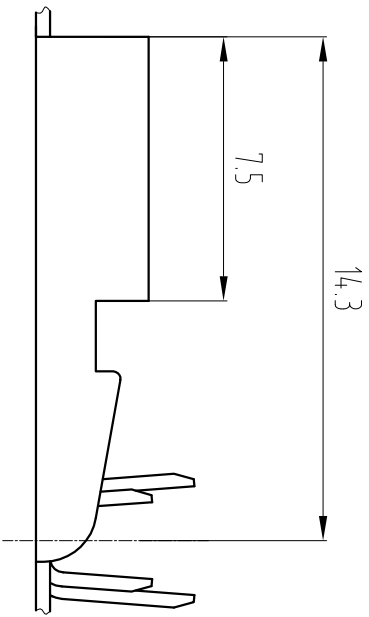
PRODUCT SPECIFICATION

7.测试分组 Test Sequences (Samples: 5PCS)

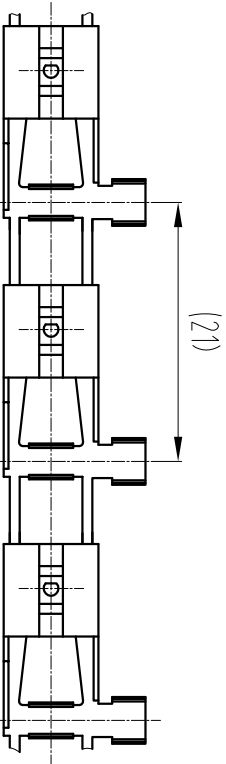
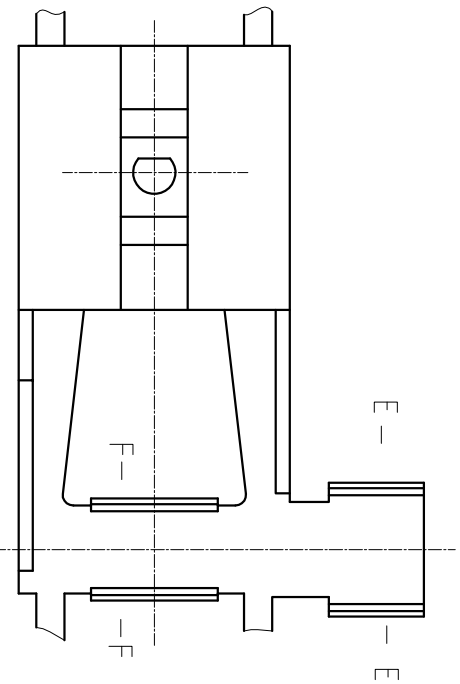
测试组 GROUP NUMBER	A	B	C	D	E	F	I
外观 Appearance	1	1	1	1	1	1,3	1
插入力与拔出力 Insertion and Withdrawal Force of Receptacle	2						
压着部位抗张强度 Crimping Pull Out Force		2					
机械振动 Vibration			3				
机械寿命 Durability				3			
接触电阻 Low Level Contact Resistance			2,4	2,4		2,4	2,4
温升 Temperature Rise					2		
耐高温 Heat Resistance						3	
盐雾 Salt Spray							3

产品名称 Product Name:	TR6.3×0.8O 系列	编号 Document No.	PS1218	版本号 VersionNo.	2
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General Tolerance		Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
		0~3	±0.13	1	H8	To update the content	Yang Pei	2019.01.23
		3~18	±0.16					
		18~50	±0.31					
		≥50	±0.55					



Contact View



422.61780	TR6 3x0.802	AWG18~AWG14	3.2	3.5	4.4	5.0	Bright Tin
422.61790							Matte Tin
422.61760							Bright Tin
422.61770	TR6 3x0.801	AWG20~AWG18	2.9	3.3	3.8	4.5	Matte Tin
Product No.	Product Name	Applicable Wires	Dimensions				Remark
			A	B	C	D	

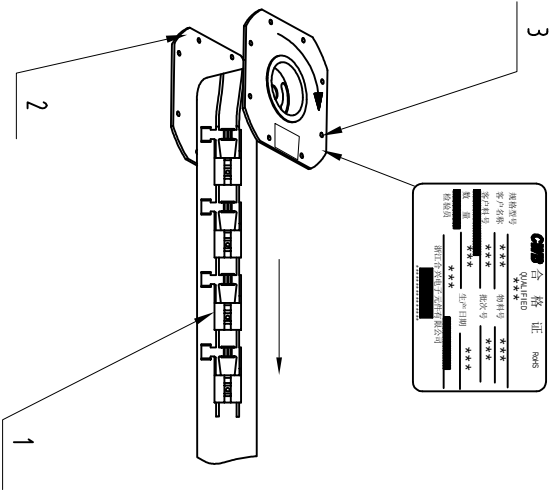
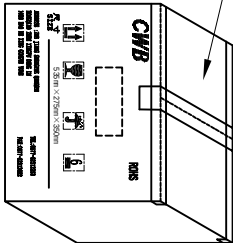
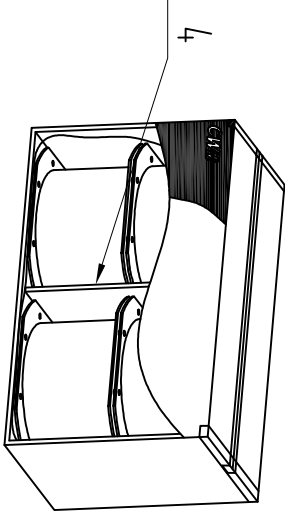
CUSTOMER DRAWING

Drawn		LiJin 2017.5.22	Unit	Scale	Size	Edition	Title	
Checked		Guoying Wang 2017.5.22	mm	5: 1	A4	B1	6.3x0.8 Vertical type Rectical	
Approved		Dongyu Liu 2017.5.22	Sheet No.	1 of 1			Part No.:	TR6 3x0.80 Series
							Document No.:	CP-DWG-00289
							Specification No.:	PS1218

- Notes:
- 1.Material: Brass, Thickness=0.4mm;
 - 2.Surface Finish: Tin over Nickel Plated;
 - 3.Matched tab thickness: 0.8mm;
 - 4.Compliant To The Current RoHS.



General Tolerance				
Dimension	Tolerance	Rev. No	Location	Description
0~3	±0.13	1	H8	To update the content
3~18	±0.16			
18~50	±0.31			
≥50	±0.55			



5	Packing box	TR6.3×0.802	3000	12000
4	Protective barrier	TR6.3×0.801	3000	12000
3	Certificate			
2	Packing reel			
1	TR6.3×0.80 series receptacle			

Number	Designation	Part No.	Pcs/reel	Pcs/box
1	TR6.3×0.80 series receptacle	TR6.3×0.801	3000	12000

CUSTOMER DRAWING					Title:	
Drawn	LiQin 2017.5.22	Unit	Scale	Size	Edition	Packaging Specification of 6.3×0.8 Vertical Type Receptacle
Checked	Guoying Wang 2017.5.22	mm	/	A4	B	Part No.:TR6.3×0.80 Series
Approved	Dongxu Liu 2017.5.22	Sheet No.	1 of 1			Document No.: BZ-DWG-00281
CMB 浙江合兴电子有限公司 浙江合兴电子有限公司 浙江合兴电子有限公司						Specification No.: PS1218