

标题: SAN 系列连接器

Title: SAN Connector

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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 (Research & Development Dept.) Tel: 86-577-62312253 (Sales Dept.)	制定 Edit: <u>王曲 2022.1.15</u>	产品名称 <u>Product name:</u> <u>SAN 系列连接器</u>
	审核 Check: <u>吴吉 2022.9.20</u>	编号 <u>Document No.:</u> <u>PS4116</u>
	批准 Approval: <u>刘冬旭 2022.9.20</u>	版本 <u>Revision:</u> <u>V2</u>



产品规格书

PRODUCT SPECIFICATION

1.更改履历 Change record

版本号 Version No.	更改前描述 Description before modification	更改后描述 Description after modification	更改人/日期 Reviser/Date
V0	/	初版 First release	王曲 2021/09/24
V1	/	根据新的命名规范更新规格和产品名称 Update specifications and part no according to new naming specifications	张博 2022/03/24
V2	/	更新端子压接不同型号导线的额定电流 Updated the rated current of the terminals crimping different types of wires	胡杰斌 2023/04/08



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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 2.0 直插 阳型电子连接器，产品名称：SAN 系列连接器。

This product specification covers the requirement for 2.0mm pitch Board-in Crimp Conn. Receptacle connector, which are designed and manufactured by CWB Electronics(ZheJiang) Co.,LTD. P/N: SAN Connector.

3.产品描述 Product description

SAN 系列连接器产品为家电连接器产品，产品部件组成如下：

The SAN series connector designed for home appliances connection. part checklist as following form:

零件名称 Part name	规格型号 Part No.	曾用规格型号 Previous part No.	描述 Description
插针 Pin contact	CZ-SAN-C*	SAN-B	AWG#28~AWG#24
插针 Pin contact	CZ-SAN-C*	SAN-C	AWG#28~AWG#24
插针 Pin contact	CZ-SAN-D*	SAN-D	AWG#22~AWG#20
条形连接器针座（面板安装） Receptacle housing (Panel mount)	SAN-nA (**-*)	SAN-nA	PA66 UL94 V-0 PA66 UL94 V-0 GWT750℃

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，以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，以本规格书要求为优先。

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	环境试验 概述和指南 Environmental testing —— General and guidance
GB/T 2423	环境试验 试验方法 Environmental testing —— Test methods
GB/T 2424	环境试验 支持文件及导则 Environmental testing —— Supporting documentation and guidance
GB/T 5095	电子设备用机电元件基本试验规程及测量方法 Electromechanical components for electronic equipment Basic testing procedures and measuring methods
EIA-364	EIA-364 系列标准 EIA-364 series standards
IPC EIA IPC JEDEC J STD 002E	连接器 / 插座终端可焊性测试方法 Solderability Tests for Component Leads, Terminations, Lugs, Terminals and Wires

产品符合 RoHS 标准。

The product should comply with RoHS.

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5. 参数范围 Parameter rating

额定电流 [AC(有效值)/DC] Rated current [AC(rms)/DC]	AWG#20	AWG#22	AWG#24	AWG#26	AWG#28
	3 A Max	3 A Max	2 A Max	1.5A Max	1A Max
适用 PCB 板 Applicable PCB	Board thickness:1.2 mm-1.6 mm				
额定电压[AC(有效值)/DC] Rated voltage [AC(rms)/DC]	250 V				
使用温度范围（包含温升） Operating temperature range (include temperature rise)	-25 °C~+85 °C				
适用线型（具体适用线型请参考压接规格书） Applicable wires(Please refer to the crimping specification for details)	CZ-SAN-C Wire size: AWG#28~AWG#24(0.08mm ² -0.20 mm ²) Insulation diameter: ϕ 1.2mm- ϕ 1.4mm				
	CZ-SANC-C Wire size: AWG#28~AWG#24(0.08mm ² -0.20 mm ²) Insulation diameter: ϕ 1.2mm- ϕ 1.4mm				
	CZ-SAND-C Wire size: AWG#22~AWG#20(0.33mm ² -0.52 mm ²) Insulation diameter: ϕ 1.6mm- ϕ 1.8mm				

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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 eyes 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 5095.2 Method 1a	1. 塑料件表面应无明显疤痕、凹陷、开裂及影响使用的变形。 Plastic part: smooth and flat surface without discolor, broken, crack, and distortion, etc. 2. 金属件表面无锈蚀、氧化、无明显的机械损伤及电镀层脱落等缺陷。 Metal part: bright and even surface without rust, oxide, fog and obvious physical damage, etc.
6.1.2	端子固定力 Retention force for contact	应测量将端子沿轴线方向拔出孔座的力, 测试速度不大于 25 mm/min。 The force of receptacle housing along the axis shall be measured (Testing speed: <25 mm/min.) GB/T 5095.8 Method 15d / EIA-364-29B	固定力: $\geq 10N$ Retention force: $\geq 10N$
6.1.3	压着部位抗张强度 Crimp tensile strength	在已压接端子的头部和导线上施加拉力, 并测量将导线从端子拉出或导线断裂所需的力, 测试速度不大于 25 mm/min。 Pulling load shall be applied to a correctly crimped contact and a wire. The load required to pull the wire out of the contact or break the wire shall be measured. (Testing speed: <25 mm/min.) GB/T 5095.8 Method 16d / EIA-364-08B	AWG#28: 10N Min. AWG#26: 20N Min. AWG#24: 30N Min. AWG#22: 40N Min. AWG#20: 50N Min.

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	绝缘电阻 Insulation resistance	在相邻接触件之间或地线之间, 用 500 V DC 电压进行测试。 Apply a voltage of 500 V DC between adjacent contacts and between contacts to ground. GB/T 5095.2 Method 3a / EIA-364-21C	1000 M Ω Min. (Initial) 800 M Ω Min. (Final)
6.2.2	耐电压 Withstand voltage	相邻接触件之间或地线之间施加 1000 V AC (有效值), 漏电流 1 mA 的电压作用, 时间 1min。 Apply a voltage of 1000 V AC (rms) and leakage current of 1 mA between adjacent contacts or ground cables for 1 minute. GB/T 5095.2 Method 4a / EIA-364-20B	外观: 无击穿和飞弧现象 Appearance: no breakdown or flashover
6.2.3	温升 Temperature rise	插入连接器, 通以最大允许电流, 测温度的差值。 Mate 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	$\Delta 30^{\circ}\text{C}$ Max.

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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 240 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 240 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) 绝缘电阻: 800 MΩ Min. Insulation resistance:800 MΩ Min. 耐电压: 1000 V Min. Withstand voltage: 1000 V Min.										
6.3.2	耐低温 Cold resistance	连接器配合后, 于 (-40±2) ℃ 的空气中放置 240 小时, 再回到室温中放置 (1~2) 小时测定。 Mated connectors exposed to the condition of (-40±2) ℃ for 240hours, 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) 绝缘电阻: 800 MΩ Min. Insulation resistance:800 MΩ Min. 耐电压: 1000 V Min. Withstand voltage: 1000 V Min.										
6.3.3	恒定湿热 Humidity	温度(40±2) ℃ , 相对湿度(90~95) % , 搁置时间 240 小时, 取出恢复 (1~2) 小时后检查。 Mated connectors exposed to the condition of temperature (40±2) ℃, humidity (90~95) % for 240 hours, recovery time (1~2) hours GB/T 5095.6 Method 11c / EIA-364-31B	外观: 无损伤 (参照6.1.1) Appearance: no damage.(refer to 6.1.1) 绝缘电阻: 800 MΩ Min. Insulation resistance: 800 MΩ Min. 耐电压: 1000 V Min. Withstand voltage: 1000 V Min.										
6.3.4	温度循环 Temperature cycling	把试验样品分别放入高、低温试验箱中, 按下列步骤调 试温度: a) 在(-55±2) ℃ 的恒温条件下放置 0.5 小时; b) 在(85±2) ℃ 的恒温条件下放置 0.5 小时; 从 a)到 b)为一个循环, 周期温度转换时间应不大于 5 分 钟, 共进行 25 个循环,恢复 (1~2) 小时后检查。 Mated connectors shall be tested under the following conditions <table><tr><td>Temperature ℃</td><td>Duration</td></tr><tr><td>1 -55±2</td><td>0.5 h</td></tr><tr><td>2 Room Temp.</td><td>5 minutes Max.</td></tr><tr><td>3 +85±2</td><td>0.5 h</td></tr><tr><td>4 Room Temp.</td><td>5 minutes Max.</td></tr></table> Step 1 to 4 is one cycle,25 cycles shall be tested, recovery time (1~2) hours GB/T 5095.6 method 11d / EIA-364-32C	Temperature ℃	Duration	1 -55±2	0.5 h	2 Room Temp.	5 minutes Max.	3 +85±2	0.5 h	4 Room Temp.	5 minutes Max.	外观: 无损伤 (参照6.1.1) Appearance: no damage.(refer to 6.1.1) 绝缘电阻: 800 MΩ Min. Insulation resistance: 800 MΩ Min. 耐电压: 1000 V Min. Withstand voltage: 1000 V Min.
Temperature ℃	Duration												
1 -55±2	0.5 h												
2 Room Temp.	5 minutes Max.												
3 +85±2	0.5 h												
4 Room Temp.	5 minutes Max.												
6.3.5	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 48 小时, 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 (1~2) 小时。 48 hours spray, at temp (35±2) ℃, NaCl mist concentration (5±1) %. After test wash parts and put it into room ambient 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 on material exposed. and plating material, slight erosion on the cutting surface is acceptable)										
6.3.6	可焊性 Solderability	把试验样品需要焊接的部位浸入焊锡炉中, 锡炉温度 (245±5) ℃, 时间 (4~5) 秒。 Dip solder tails into the molten solder held at (245±5) ℃ for (4~5) seconds IPC EIA IPC JEDEC J STD 002E	上锡率≥90 % Solder coverage: ≥90 %										

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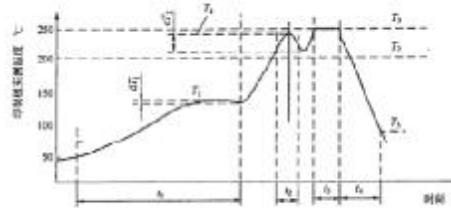
耐焊接热
Resistance to
soldering heat

1.耐波峰焊热：把试验样品需要焊接的部位浸入焊锡炉中,锡炉温度 $(260\pm5)^{\circ}\text{C}$ ；时间 (5 ± 1) 秒后，在正常条件下恢复 $(1\sim2)$ 小时。（温度曲线见图1）

1.Resistance to wave soldering heat: Dip solder tails into the molten solder held at $(260\pm5)^{\circ}\text{C}$ for (5 ± 1) seconds, recovery time $(1\sim2)$ hours. (The temperature curve is shown in Figure 1)

外观：无损伤（参照6.1.1）
Appearance: no damage.(refer to 6.1.1)

Pb-free Wave soldering Temperature profile



图中： $T_1>150^{\circ}\text{C}$ $T_2>220^{\circ}\text{C}$ $T_3=230^{\circ}\text{C}\pm 2^{\circ}\text{C}$ $T_4>230^{\circ}\text{C}$ $T_1<100^{\circ}\text{C}$
 $dT_1<5^{\circ}\text{C}$ $dT_2<15^{\circ}\text{C}$ $t_1>60\text{s}$ $t_2+t_3>3t_1-5t_1$ $T_3-T_1<100^{\circ}\text{C}$

图1 波峰焊曲线图

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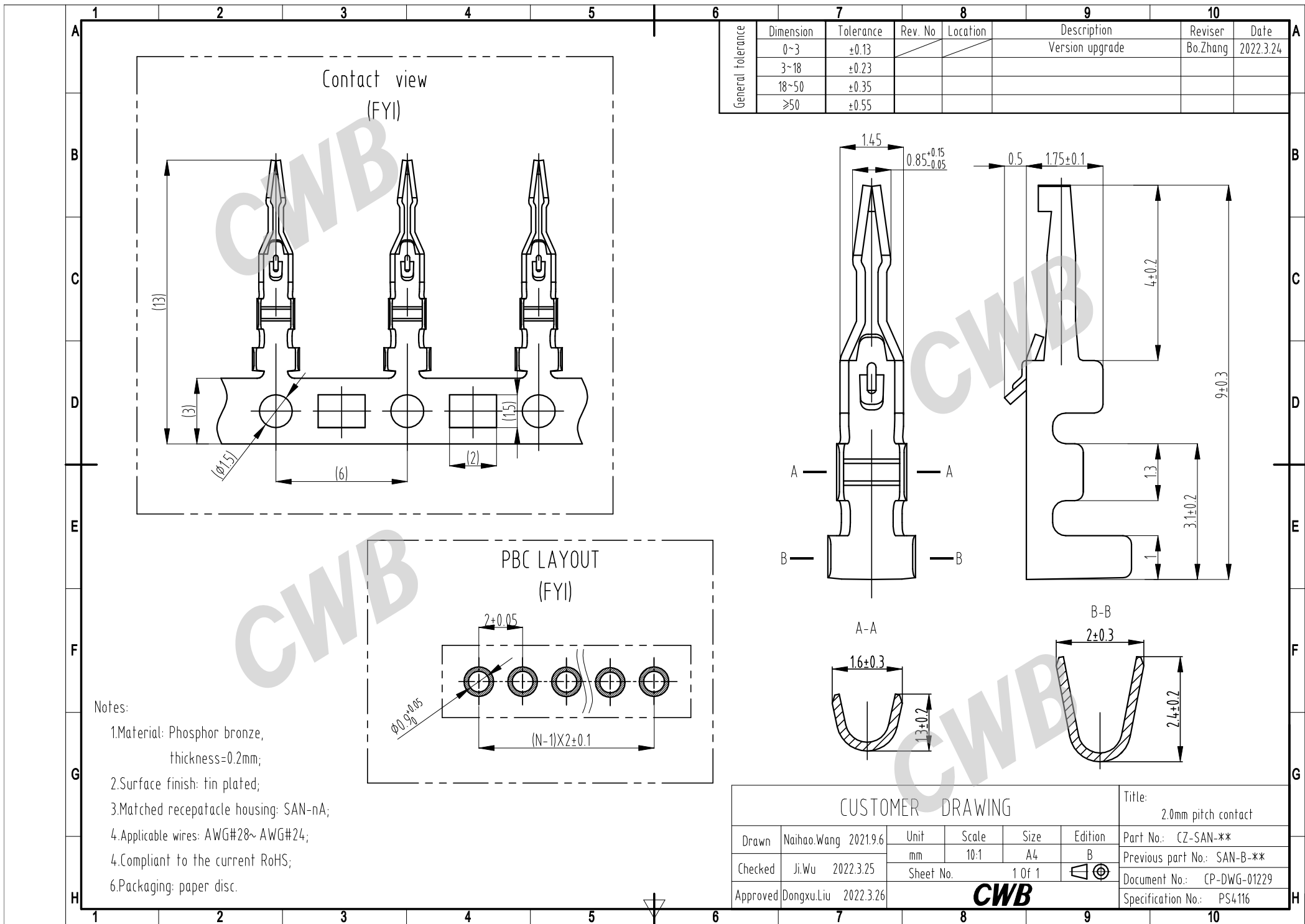
PS4116

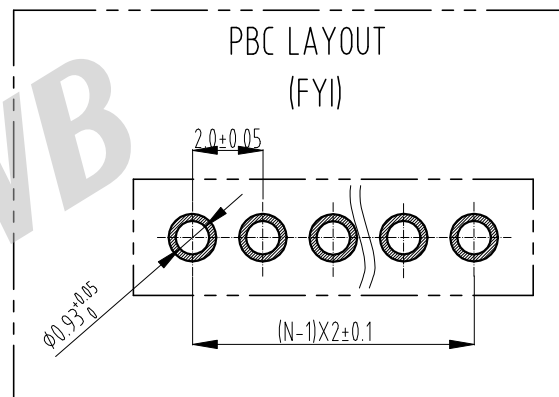
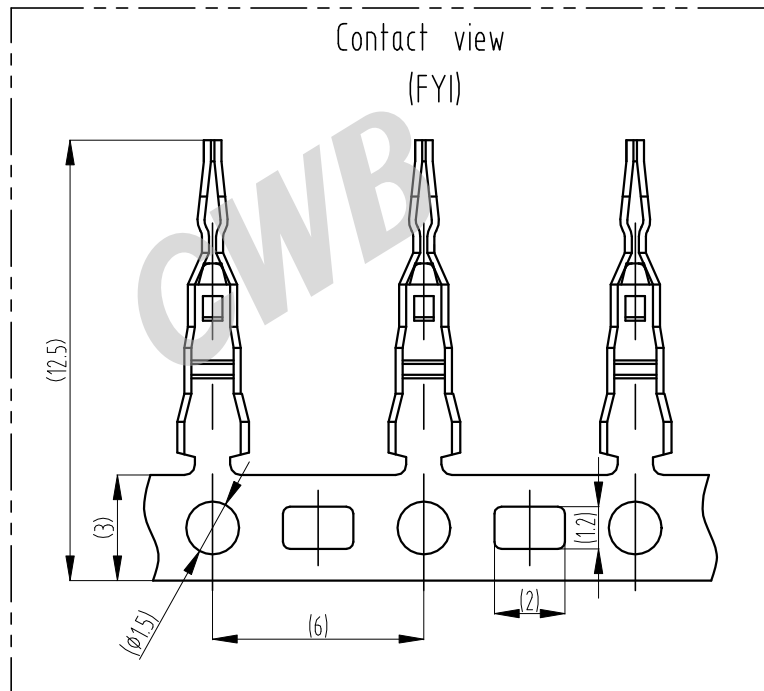
版本号
Version No.

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7.测试分组 Test sequences (Samples:5PCS)

测试组 Group number	A	B	C	D	E	F	G	H	I	J	K	L
外观 Appearance	1	1	1	1	1	1,5	1,5	1,5	1,5	1,3	1,3	1,3
端子固定力 retention force for contact	2											
压着部位抗张强度 Crimp tensile strength		2										
绝缘电阻 Insulation resistance			2									
耐电压 Withstand voltage				2		3	3	3	3			
温升 Temperature rise					2	4	4	4	4			
耐高温 Heat resistance						2						
耐低温 Cold resistance							2					
恒定湿热 Humidity								2				
温度循环 Temperature cycling									2			
盐雾 Salt spray										2		
可焊性 Solderability											2	
耐焊接热 Resistance to soldering heat												2

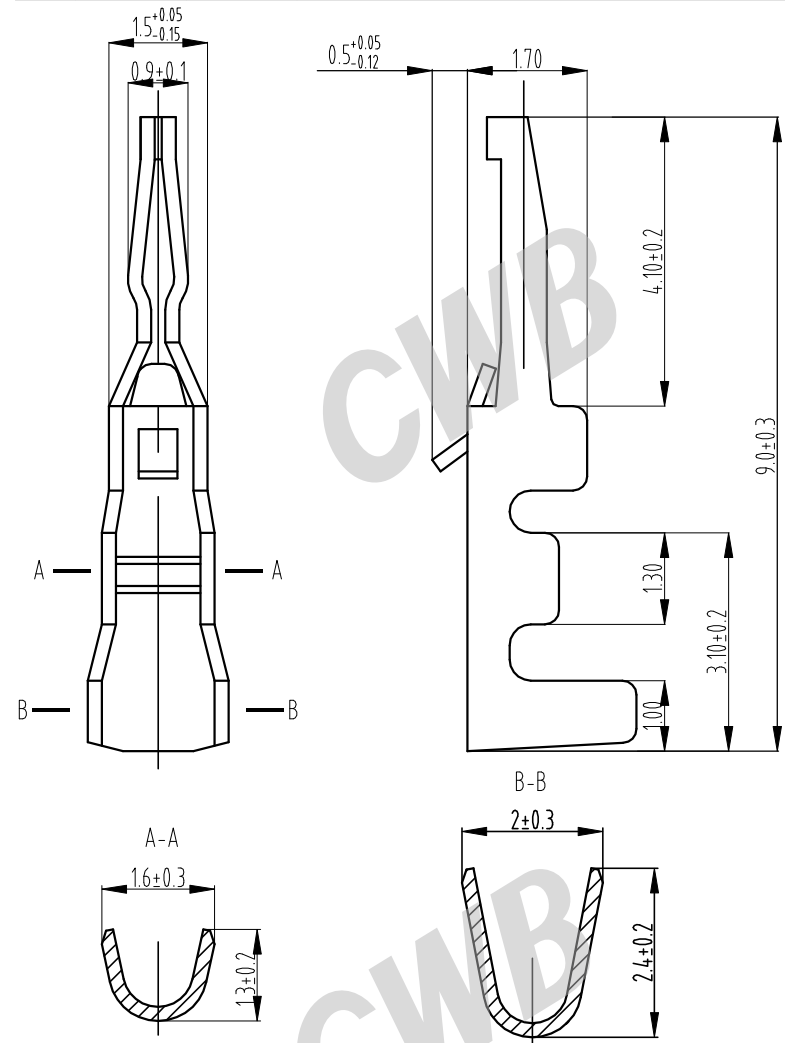




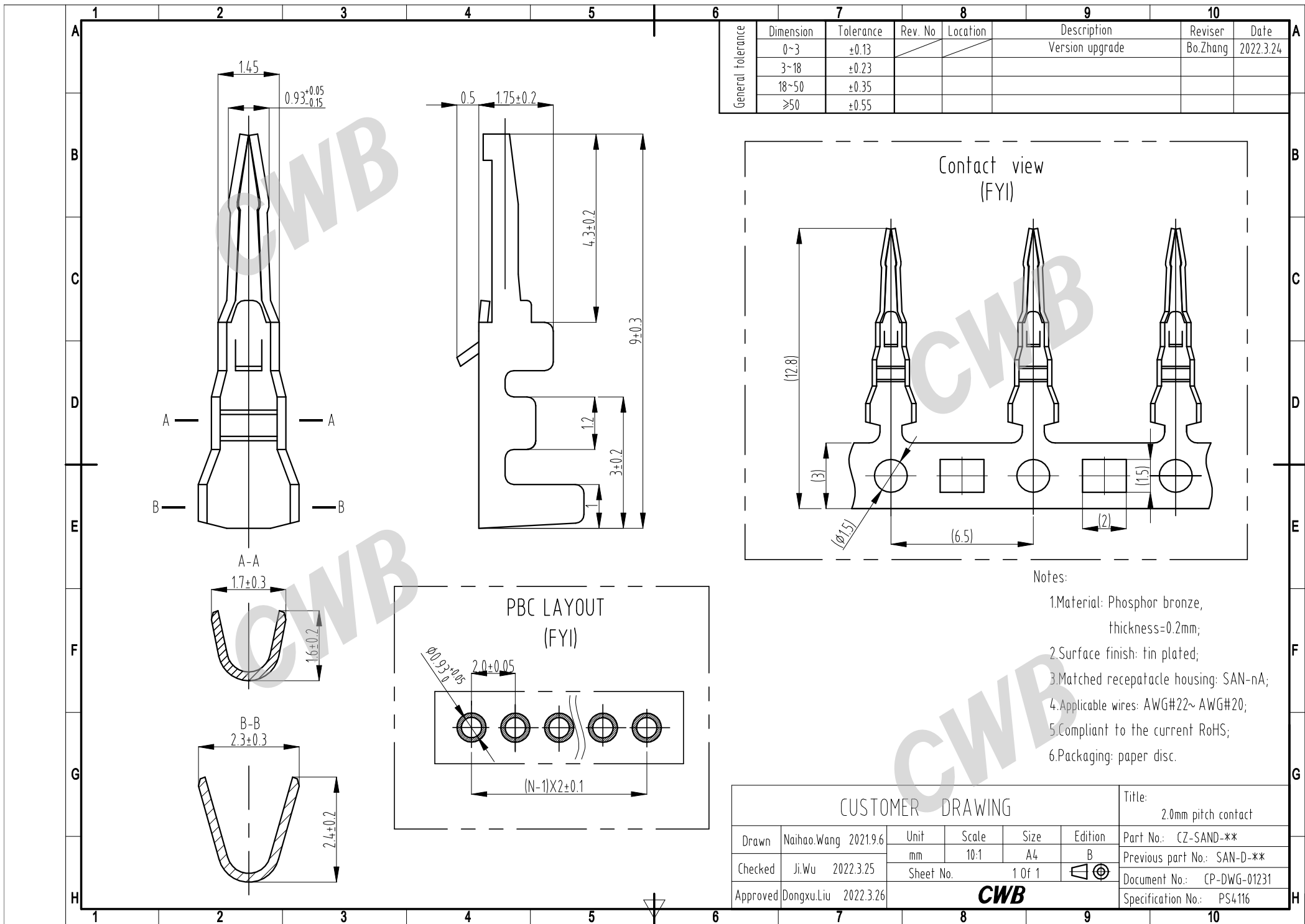
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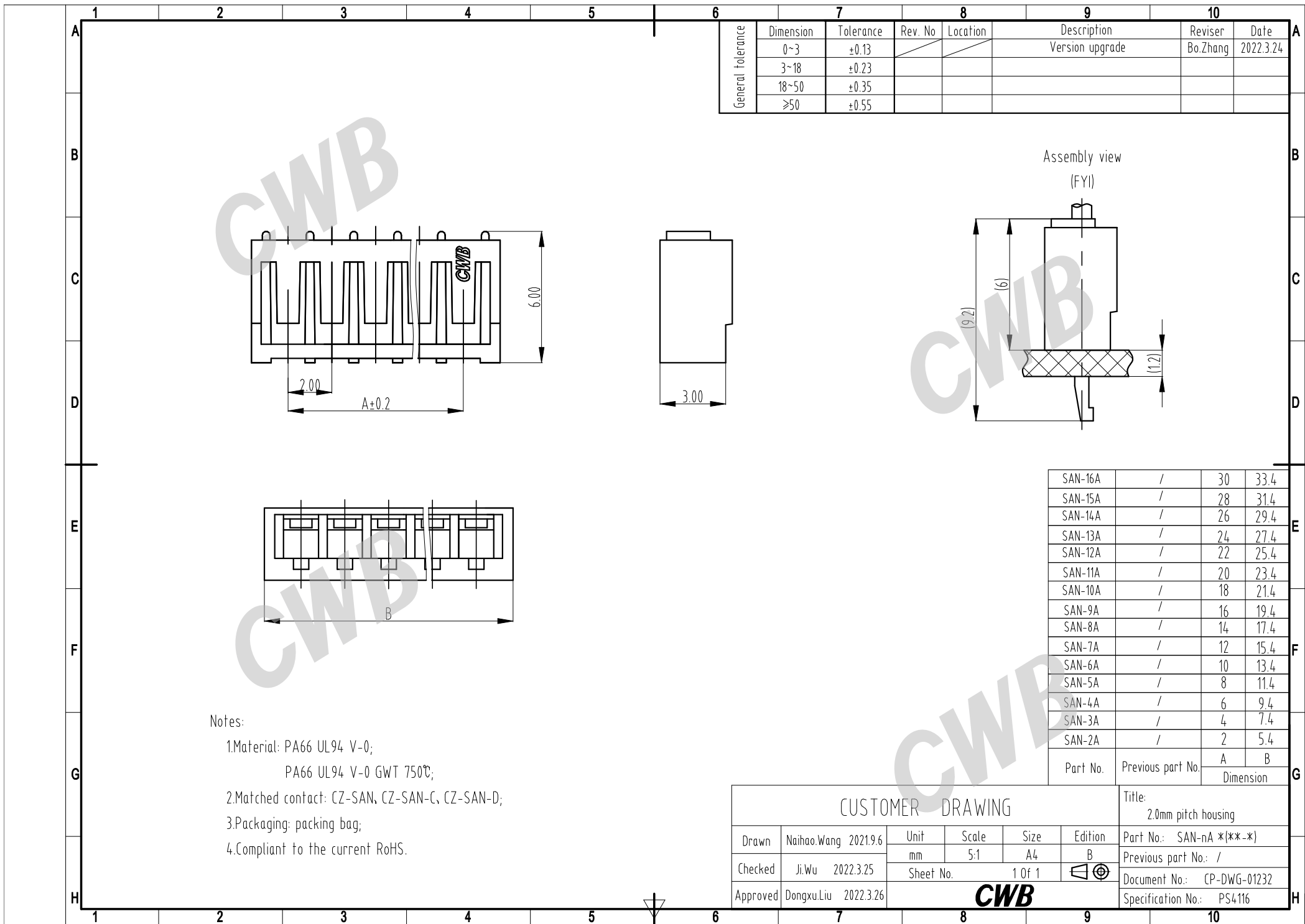
- 1.Material: Phosphor bronze,
thickness=0.2mm;
- 2.Surface finish: tin plated;
- 3.Matched receptacle housing: SAN-nA;
- 4.Applicable wires: AWG#28~AWG#24;
- 4.Compliant to the current RoHS;
- 6.Packaging: paper disc.

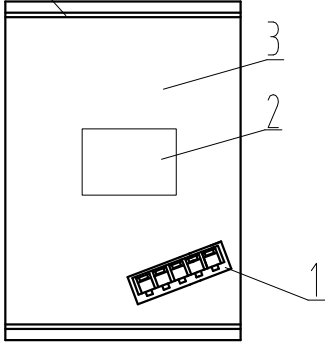
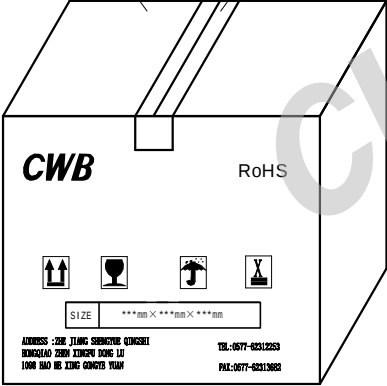
General tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3	±0.13			Version upgrade	Bo Zhang	2022.3.24
	3~18	±0.23					
	18~50	±0.35					
	≥50	±0.55					



CUSTOMER DRAWING						Title: 2.0mm pitch contact	
Drawn	Naihao.Wang	2021.9.6	Unit	Scale	Size	Edition	Part No.: CZ-SANC-**
Checked	Ji.Wu	2022.3.25	mm	10:1	A4	B	Previous part No.: SAN-C-**
Approved	Dongxu.Liu	2022.3.26	Sheet No.	1 of 1			Document No.: CP-DWG-01230
CWB							Specification No.: PS4116





	1	2	3	4	5	6	7	8	9	10																																																																																	
A						<table><tr><td rowspan="5">General tolerance</td><td>Dimension</td><td>Tolerance</td><td>Rev. No</td><td>Location</td><td>Description</td><td>Reviser</td><td>Date</td></tr><tr><td>0~3</td><td>±0.13</td><td></td><td></td><td>Version upgrade</td><td>Bo.Zhang</td><td>2022.3.16</td></tr><tr><td>3~18</td><td>±0.23</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>18~50</td><td>±0.35</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>≥50</td><td>±0.55</td><td></td><td></td><td></td><td></td><td></td></tr></table>		General tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date	0~3	±0.13			Version upgrade	Bo.Zhang	2022.3.16	3~18	±0.23						18~50	±0.35						≥50	±0.55									A																																												
General tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date																																																																																				
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B	Packing bag					Packing box					B																																																																																
C	Sealed										C																																																																																
D											D																																																																																
E											E																																																																																
F											F																																																																																
G						<table><tr><td>5</td><td>Packing box</td><td>SAN-16A</td><td>/</td><td>1000</td></tr><tr><td>4</td><td>Gummed tape</td><td>SAN-15A</td><td>/</td><td>1000</td></tr><tr><td>3</td><td>Packing bag</td><td>SAN-14A</td><td>/</td><td>1000</td></tr><tr><td>2</td><td>Certification</td><td>SAN-13A</td><td>/</td><td>1000</td></tr><tr><td>1</td><td>SAN series housing</td><td>SAN-12A</td><td>/</td><td>1000</td></tr><tr><td></td><td></td><td>SAN-11A</td><td>/</td><td>1000</td></tr><tr><td></td><td></td><td>SAN-10A</td><td>/</td><td>1000</td></tr><tr><td></td><td></td><td>SAN-9A</td><td>/</td><td>1000</td></tr><tr><td></td><td></td><td>SAN-8A</td><td>/</td><td>1000</td></tr><tr><td></td><td></td><td>SAN-7A</td><td>/</td><td>1000</td></tr><tr><td></td><td></td><td>SAN-6A</td><td>/</td><td>1000</td></tr><tr><td></td><td></td><td>SAN-5A</td><td>/</td><td>1000</td></tr><tr><td></td><td></td><td>SAN-4A</td><td>/</td><td>1000</td></tr><tr><td></td><td></td><td>SAN-3A</td><td>/</td><td>1000</td></tr><tr><td></td><td></td><td>SAN-2A</td><td>/</td><td>1000</td></tr><tr><td>Number</td><td>Designation</td><td>Part No.</td><td>Previous part No.</td><td>Pcs/bag</td></tr></table>					5	Packing box	SAN-16A	/	1000	4	Gummed tape	SAN-15A	/	1000	3	Packing bag	SAN-14A	/	1000	2	Certification	SAN-13A	/	1000	1	SAN series housing	SAN-12A	/	1000			SAN-11A	/	1000			SAN-10A	/	1000			SAN-9A	/	1000			SAN-8A	/	1000			SAN-7A	/	1000			SAN-6A	/	1000			SAN-5A	/	1000			SAN-4A	/	1000			SAN-3A	/	1000			SAN-2A	/	1000	Number	Designation	Part No.	Previous part No.	Pcs/bag	G
5	Packing box	SAN-16A	/	1000																																																																																							
4	Gummed tape	SAN-15A	/	1000																																																																																							
3	Packing bag	SAN-14A	/	1000																																																																																							
2	Certification	SAN-13A	/	1000																																																																																							
1	SAN series housing	SAN-12A	/	1000																																																																																							
		SAN-11A	/	1000																																																																																							
		SAN-10A	/	1000																																																																																							
		SAN-9A	/	1000																																																																																							
		SAN-8A	/	1000																																																																																							
		SAN-7A	/	1000																																																																																							
		SAN-6A	/	1000																																																																																							
		SAN-5A	/	1000																																																																																							
		SAN-4A	/	1000																																																																																							
		SAN-3A	/	1000																																																																																							
		SAN-2A	/	1000																																																																																							
Number	Designation	Part No.	Previous part No.	Pcs/bag																																																																																							
H						<table><tr><td colspan="6">CUSTOMER DRAWING</td><td colspan="2">Title: Packaging specification</td></tr><tr><td>Drawn</td><td>Naihao.Wang</td><td>2021.9.6</td><td>Unit</td><td>Scale</td><td>Size</td><td>Edition</td><td colspan="2">Part No.: SAN-nA *(**.*.)</td></tr><tr><td>Checked</td><td>Ji.Wu</td><td>2022.3.25</td><td>mm</td><td>/</td><td>A4</td><td>B</td><td colspan="2">Previous part No.: /</td></tr><tr><td>Approved</td><td>Dongxu.Liu</td><td>2022.3.26</td><td colspan="2">Sheet No.</td><td>1 Of 1</td><td colspan="2">Document No.: BZ-DWG-00685</td></tr><tr><td colspan="6">CWB</td><td colspan="2">Specification No.: PS4116</td></tr></table>					CUSTOMER DRAWING						Title: Packaging specification		Drawn	Naihao.Wang	2021.9.6	Unit	Scale	Size	Edition	Part No.: SAN-nA *(**.*.)		Checked	Ji.Wu	2022.3.25	mm	/	A4	B	Previous part No.: /		Approved	Dongxu.Liu	2022.3.26	Sheet No.		1 Of 1	Document No.: BZ-DWG-00685		CWB						Specification No.: PS4116		H																																						
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	1	2	3	4	5	6	7	8	9	10																																																																																	

1	2	3	4	5	6	7	8	9	10	
A						General Tolerance		Reviser		Date
						Dimension	Tolerance	Rev. No	Location	Description
						0~3	±0.13			Version upgrade
						3~18	±0.23			Bo.Zhang
						18~50	±0.35			2022.3.16
						≥50	±0.55			
B										
C										
D										
E										
F										
G										
H										

Diagram illustrating the packaging specification for the product. The diagram shows a reel (1) with terminals (2) and a RoHS label (3). The reel is shown next to a packing box (4) with a packing bag (5). The final box (6) is shown with a RoHS label.

6	Gummed tape		
5	Packing box		
4	Packing bag		
3	Reel		
2	Certification		
1	CZ-SAN-C	SAN-B	12 KPcs/reel
	CZ-SANC-C	SAN-C	13 KPcs/reel
	CZ-SAND-C	SAN-D	10 KPcs/reel
	Part No.	Previous part No.	Pcs/bag
Number	Designation		Remarks

CUSTOMER DRAWING						Title: Packaging specification	
Drawn	Naihao.Wang	2021.9.6	Unit	Scale	Size	Edition	Part No: CZ-SAN-*/CZ-SANC-*/CZ-SAND-*
Checked	Ji.Wu	2022.3.25	mm	/	A4	B	Previous part No: SAN-B/SAN-C/SAN-D
Approved	Dongxu.Liu	2022.3.26	Sheet No.		1 Of 1	Document No.: BZ-DWG-00686	
CWB						Specification No.: PS4116	

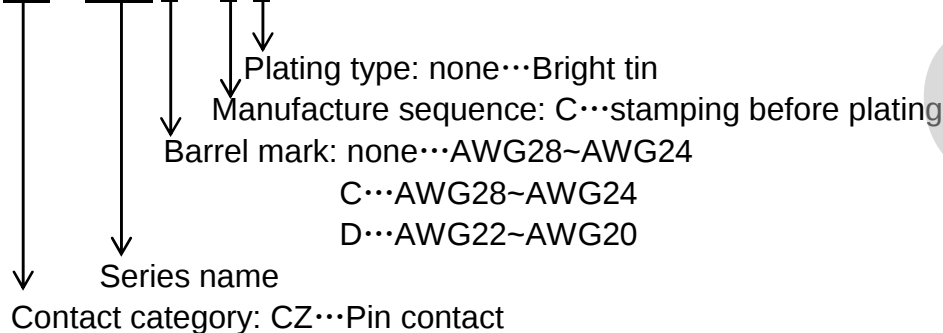
SAN 系列命名规则

SAN series naming conventions

1. Contact

CZ-SAN-C*, CZ-SANC-C*, CZ-SAND-C*,

CH - SAN * - * *



2. Receptacle housing

SAN-nA * (* * -*)

SAN - n A * (* * -*)

