



承认书

SPECIFICATION FOR APPROVAL

受控号:

物料描述

DESCRIBE: BTB CONN, Plug, 6pin, P0. 35mm, 镀金4uMin, Black

物料型号

PRODUCTS: BB0009P06A

客户料号编码

PART NO: /

客户名称:

CUSTOMER: /

适用机种

APPLICATION: /

日期

DATE: 2025-7-30

供应商

PROVIDER: 东莞市元精技术有限公司

APPROVED BY VENDOR			
确认	校对	审核	批准
APPROVED BY CUSTOMER TECHNOLOGY			
工程部确认			
品质部确认			
采购部确认			

地址: 广东省东莞市寮步镇刘屋巷环翠路3号

目 录

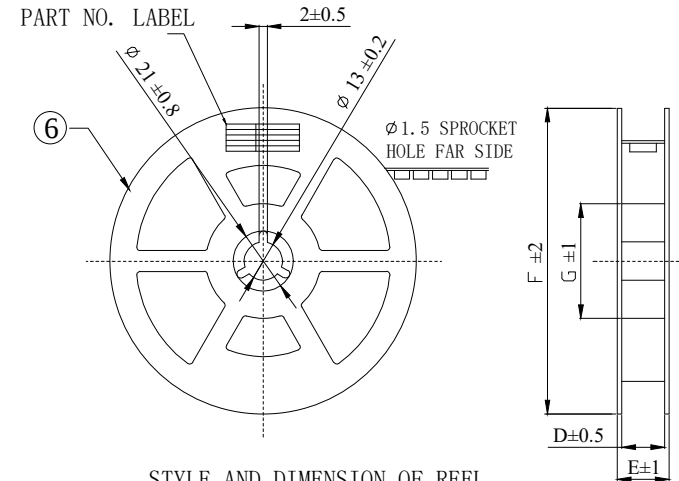
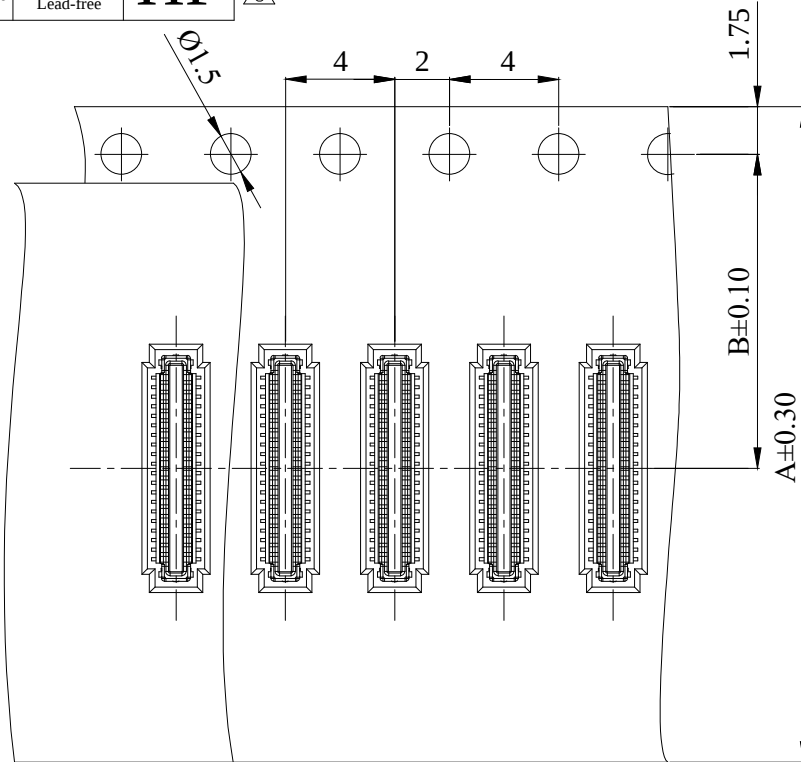
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3	POWER CONTACT	COPPER ALLOY, Au4u" Min ON CONTACT AREA, Au1u" Min ON SOLDER AREA, Ni 50u"Min ALL OVER			6	REEL	PLASTIC
2	SIGNAL CONTACT	COPPER ALLOY, Au4u" Min ON CONTACT AREA, Au1u" Min ON SOLDER AREA, Ni 50u"Min ALL OVER			5	COVER TAPE	PLLYESTER
1	HOUSING	LCP, BLACK, UL 94 V-0			4	EMBOSSED CARRIER TAPE	PS
NO.	PART NAME	DESCRIPTION , REMARKS			NO.	PART NAME	DESCRIPTION , REMARKS
GENERAL	TOLERANCE	UNITS:mm	SCALE 1 : 1		TITLE: BTB CONN, P1ug, MH0. 60, P0. 35mm		
X. ± 0.30	X.* ± 5°	APPROVED	LEO		DRAWING NO. : C-BB0009P-1		C 1/2
.X ± 0.20	.X* ± 3°	CHECKED	TOM		PART NO. : SEE TABLE		
.XX ± 0.15	.XX* ± 2°	DESIGNED	GONG				

Rohs 2.0
Compliant



HF



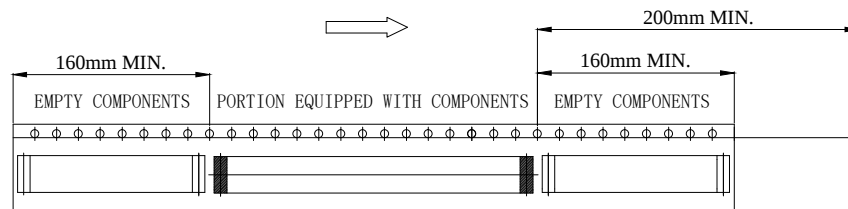
STYLE AND DIMENSION OF REEL

PER REEL 15000 CONNECTORS

TABLE:

P/N	No,of PIN	DIM						
		A	B	C	D	E	F	G
BB0009P06A	6PIN	12.0	5.5	2.46	13.5	17.5	330	80
BB0009P10A	10PIN	16.0	7.5	3.16	17.5	21.5	330	80
BB0009P16A	16PIN	16.0	7.5	4.21	17.5	21.5	330	80
BB0009P24A	24PIN	16.0	7.5	5.61	17.5	21.5	330	80
BB0009P30A	30PIN	16.0	7.5	6.66	17.5	21.5	330	80
BB0009P32A	32PIN	24.0	11.5	7.01	25.5	29.5	330	80
BB0009P34A	34PIN	24.0	11.5	7.36	25.5	29.5	330	80
BB0009P40A	40PIN	24.0	11.5	8.41	25.5	29.5	330	80
BB0009P50A	50PIN	24.0	11.5	10.16	25.5	29.5	330	80
BB0009P60A	60PIN	24.0	11.5	11.91	25.5	29.5	330	80

DIRECTION OF UNREELING



TRAILER

TAPING (FREE)

LEADER

CPT 元精技术

NO.		PART NAME		DESCRIPTION , REMARKS		NO.		PART NAME		DESCRIPTION , REMARKS	
GENERAL		TOLERANCE		UNITS:mm		SCALE 1 : 1		TITLE:		BTB CONN, P1ug, MH0. 6, P0. 35mm	
.X. ± 0.30		.X.* ± 5°		APPROVED		LEO		DRAWING NO. :		C-BB0009P-1	
.X ± 0.20		.X* ± 3°		CHECKED		TOM		PART NO. :		SEE TABLE	
.XX ± 0.15		.XX* ± 2°		DESIGNED		GONG					

Rohs 2.0
Compliant

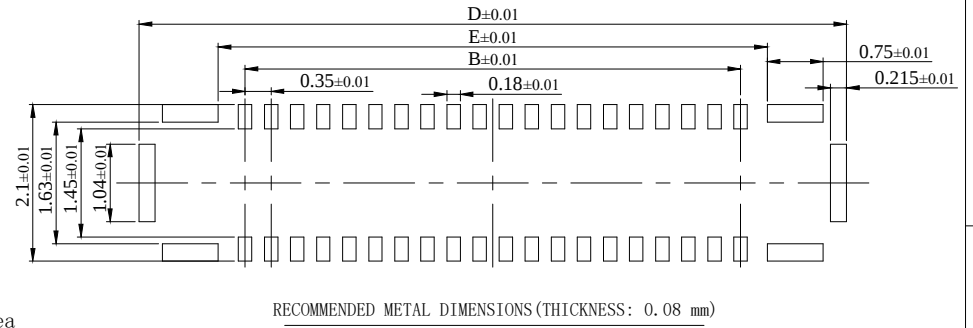
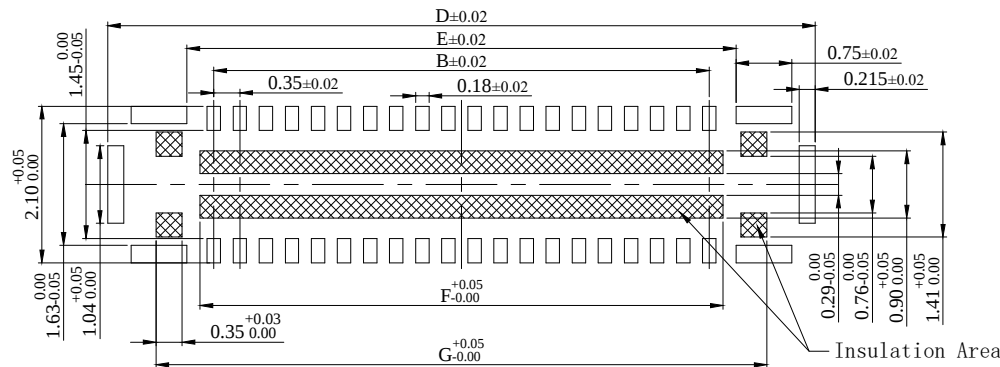
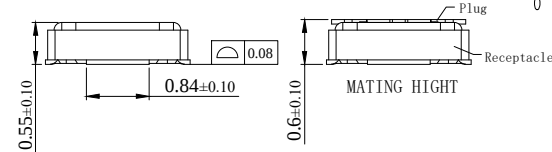
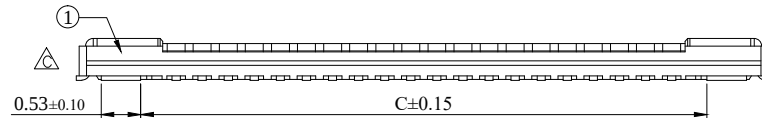
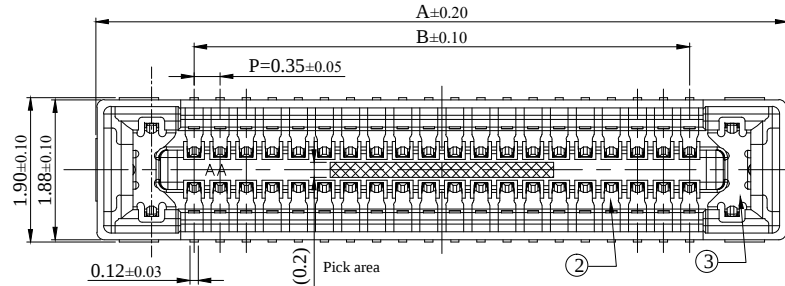
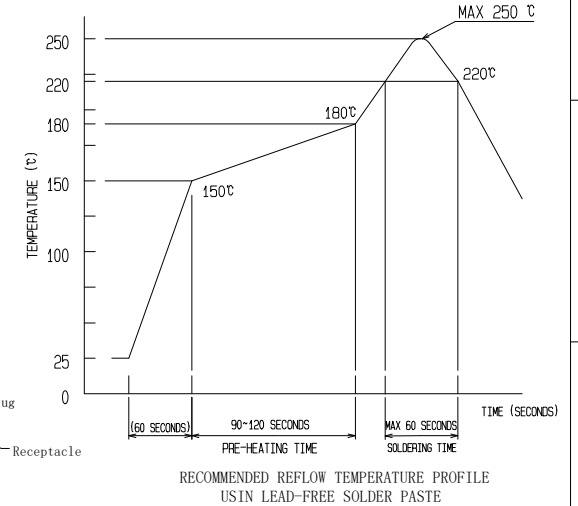


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REV.	ECN NUMBER	DESCRIPTION	DAET	DRAWN	CHECKED	APPROVED
A	/	NEW	2023.01.04	GONG	/	LEO
B	ECN24-0009	增加接点, 提升过大电流能力至7A	2024.03.28	Qiang	GONG	LEO
C	ECN24-0034	增加环保标识, 删除侧视图多余线条	2024.11.21	Qiang	GONG	LEO

TABLE:

P/N	No. of PIN	DIM						
		A	B	C	D	E	F	G
BB0009R06A	6PIN	3.30	0.70	1.62	3.545	1.42	1.07	2.25
BB0009R10A	10PIN	4.00	1.40	2.32	4.245	2.12	1.77	2.95
BB0009R16A	16PIN	5.05	2.45	3.37	5.295	3.17	2.82	4.00
BB0009R24A	24PIN	6.45	3.85	4.77	6.695	4.57	4.22	5.40
BB0009R30A	30PIN	7.50	4.90	5.82	7.745	5.62	5.27	6.45
BB0009R32A	32PIN	7.85	5.25	6.17	8.095	5.97	5.62	6.80
BB0009R34A	34PIN	8.20	5.60	6.52	8.445	6.32	5.97	7.15
BB0009R40A	40PIN	9.25	6.65	7.57	9.495	7.37	7.02	8.20
BB0009R50A	50PIN	11.00	8.40	9.32	11.245	9.12	8.77	9.95
BB0009R60A	60PIN	12.75	10.15	11.07	12.995	10.87	10.52	11.70



RECOMMENDED PCB LAYOUT

NOTES:

- 1.0 VOLTAGE: 30V AC/DC
- 2.0 CURRENT: 0.3A/SIGNAL CONTACT, 7A/POWER CONTACT
- 3.0 OPERATION TEMPERATURE: -40° C to 85° C
- 4.0 CONTACT RESISTANCE: 90mΩ /SIGNAL CONTACT, 30mΩ /POWER CONTACT
- 5.0 INSULATION RESISTANCE: 50MΩ MIN INITIAL
- 6.0 DIELECTIC WITHSTANDING VOLTAGE: 100V AC FOR ONE MINUTE
- 7.0 DURABILITY: 30 CYCLES
- 8.0 IR REFLOW CYCLE: 2 CYCLES MAX.

CPT 元精技术

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2	SIGNAL CONTACT	COPPER ALLOY, Au4u" Min ON CONTACT AREA, Au1u" Min ON SOLDER AREA, Ni 50u" Min ALL OVER		5	COVER TAPE	PLYESTER	
1	HOUSING	LCP, BLACK, UL 94 V-0		4	EMBOSSED CARRIER TAPE	PS	
NO.	PART NAME	DESCRIPTION , REMARKS			NO.	PART NAME	DESCRIPTION , REMARKS
GENERAL		TOLERANCE	UNITS:mm	SCALE 1 : 1	TITLE: BTB CONN, REC, MH0. 60, PO. 35mm		
X. ± 0.30	X.* ± 5°	APPROVED	LEO		DRAWING NO. : C-BB0009R-1		C
.X ± 0.20	.X.* ± 3°	CHECKED	Tom		PART NO. : SEE TABLE		
.XX ± 0.15	.XX.* ± 2°	DESIGNED	GONG				

Rohs 2.0
Compliant



HF



4.00

2.00

4.00

1.75

B±0.10

A±0.30

Ø1.50

PART NO. LABEL

2±0.5

Ø 21 ±0.8

Ø 13 ±0.2

Ø 1.5 SPROCKET
HOLE FAR SIDE

F ±2

G ±1

D±0.5

E±1

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PER REEL 15000 CONNECTORS

TABLE:

P/N	No,of PIN	DIM						
		A	B	C	D	E	F	G
BB0009R06A	6PIN	12.0	5.5	3.4	13.5	17.5	330	80
BB0009R10A	10PIN	16.0	7.5	4.10	17.5	21.5	330	80
BB0009R16A	16PIN	16.0	7.5	5.15	17.5	21.5	330	80
BB0009R24A	24PIN	16.0	7.5	6.55	17.5	21.5	330	80
BB0009R30A	30PIN	16.0	7.5	7.60	17.5	21.5	330	80
BB0009R32A	32PIN	24.0	11.5	7.95	25.5	29.5	330	80
BB0009R34A	34PIN	24.0	11.5	8.30	25.5	29.5	330	80
BB0009R40A	40PIN	24.0	11.5	9.35	25.5	29.5	330	80
BB0009R50A	50PIN	24.0	11.5	11.10	25.5	29.5	330	80
BB0009R60A	60PIN	24.0	11.5	12.85	25.5	29.5	330	80

DIRECTION OF UNREELING



200mm MIN.

160mm MIN.

160mm MIN.

EMPTY COMPONENTS

PORTION EQUIPPED WITH COMPONENTS

EMPTY COMPONENTS

TRAILER

TAPING (FREE)

LEADER

CPT 元精技术

NO.	PART NAME	DESCRIPTION , REMARKS			NO.	PART NAME	DESCRIPTION , REMARKS
GENERAL	TOLERANCE	UNITS:mm	SCALE 1 : 1		TITLE: BTB CONN, REC, M10. 6, P0. 35mm		
X. ± 0.30	X.* ± 5"	APPROVED	LEO		DRAWING NO. : C-BB0009R-1		C
.X ± 0.20	.X.* ± 3"	CHECKED	Tom				
.XX ± 0.15	.XX* ± 2"	DESIGNED	GONG		PART NO. : SEE TABLE		2/2

2/2

 元精技术	产品规格书				
	文件类别	文件编号	生效日期	版次	产品项目编号
	三阶技术标准	CPT-SS-R-009Y	2024. 04. 16	C/0	B09 系列
	适用产品	0.35mm 间距, 0.6mm 堆叠高度, 板对板或板对 FPC 连接器, 额定电流 7A Max			

文件编制、审批及受控状态

受控印章及保密状态	编制部门:	研发中心		
受控印章	编制日期:	2024.04.16		
	编制:	李绪强	签名	
	审核:	韦庆贡	签名	
保密等级: ☐ 绝密 ☒ 机密 ☐ 秘密 ☐ 解密	批准:	LEO	签名	

文件修订履历

日期	版次	修订内容	修订人
2023. 07. 10	A/0	新发行	李绪强
2024.04.16	B/0	产品优化升级, 过最大电流提升至 7A	李绪强
2024.11.21	C/0	更正产品侧视图, 删除多余线条	李绪强

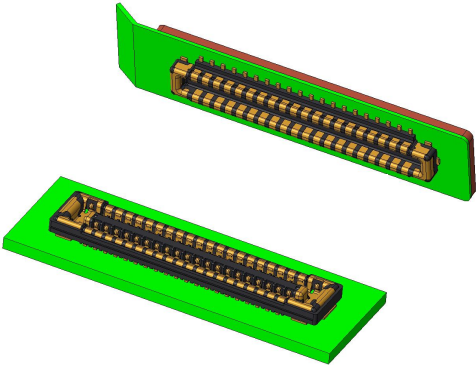
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	三阶技术标准	CPT-SS-R-009Y	2024. 04. 16	C/0	B09 系列
	适用产品	0.35mm 间距, 0.6mm 堆叠高度, 板对板或板对 FPC 连接器, 额定电流 7A Max			

概述

B09 series is a connector suitable for board pair FPC; The Pitch of the terminal is 0.35mm, the stack height is 0.6mm, and the width is 1.94mm. The product occupies small space. Each signal terminal has two contact points, the pin of the power supply supports a maximum of 7A current, and the overall pin number can be increased or decreased according to the demand. The B09 series is designed with two contact points for high reliability, while using high strength metal cap structure.

B09 系列是一个间距 0.35mm 堆叠高度 0.6mm，宽度 1.9mm，节省空间设计，适用于板对 FPC 的连接器。每个信号端子有两个接触点，电源 pin 最大支持 7A 电流，可依据需求增加或者减少整体 pin 数。

B09 系列采用双点接触设计，具有高可靠性，也采用高强度的金属帽结构。



■特点

1. Rated current 7A（额定电流 7A）

The maximum current of the power pin is 5A and the maximum current of the signal pin is 0.3A
电源 pin 的最大电流 7A，信号 pin 最大电流 0.3A。

2. High reliability of contact design（高可靠性接触设计）

The design of two contact points ensures that both the power terminal and the signal terminal have ultra-high contact stability.

双点接触的设计均确保了电源和信号的高可靠性接触。

3. Good clasp feeling（良好的扣合操作）

With a snap-guide structure, Automatic alignment within 0.2mm error range, Clear sense of snap can effectively prevent the snap is not in place, The maneuverability of docking is improved

采用扣合导向结构，可确保 0.2mm 误差范围内自动对正。清晰的扣合感可有效防止扣合不到位，提高了扣合时的可操作性。

4. High transmission speed（传输速率高）

USB3.1 Gen.2 (10Gbps) signal transmission

信号端子可支持 USB3.1 Gen.2（10Gbps）传输信号。

 元精技术	产品规格书				
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	三阶技术标准	CPT-SS-R-009Y	2024. 04. 16	C/0	B09 系列
	适用产品	0.35mm 间距, 0.6mm 堆叠高度, 板对板或板对 FPC 连接器, 额定电流 7A Max			

■ Scope of use（使用范围）

It is suitable for small and thin devices, such as mobile phones, wearable devices and tablet computers
适用于小型薄款设备，如手机、可穿戴设备、平板电脑。

■Environmental protection 环保

Meet the halogen free requirement（符合无卤要求）
As defined in IEC 61249-2-21（如 IEC 61249-2-21 所定义）
Br : 900ppm Max, Cl : 900ppm Max , Br+Cl :1500ppm Max

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	适用产品	0.35mm 间距, 0.6mm 堆叠高度, 板对板或板对 FPC 连接器, 额定电流 7A Max			

■Product specification（产品规格）

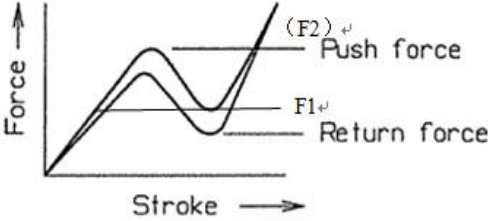
等级	Rated current 额定电流	Power Pin: 7A Signal Pin : ≤40 pin 0.3A ≥44 pin 0.2A	Operating temperature 操作温度范围	-40 ~ 85°C (注释 2) Note 2	Storage temperatur 储存 温度范围	-10 ~ 60°C (注释 3) Note 3
	Rated voltage 额定电压	30V AC/DC	Operating humidity 操作湿度范围	20 ~ 80%	Storage humidity 储存湿度范围	40 ~ 70% (注释 3) Note 3

项目	规格	条件
1. Electrical Performance(电器性能):		
1. 1Contact Resistance 接触阻抗	Signal Pin: 90mΩ Max Power Pin: 30mΩ Max 信号端子 : 90mΩ Max 电源端子 : 30mΩ Max	Make the BTB plugs and receptacles on board be fully mated ,then apply 20mV, 100mA current to the mated specimens , 将焊板的 BTB 公母端实配后通电测试, 电流及电压规格: 20mV, 100mA。测试公母端实配后 LLCR
1.2 Insulation Resistance 绝缘电阻	50 MΩ Minimum.	EIA 364-21 (or MIL-STD-202F, Method 302, Test Condition B) Apply a voltage of 100 V DC between adjacent terminals. of the plugs and receptacles. Electrification Time: 2 min 施加 100V DC 到公端&母端相邻两根端子之间, 通电时间: 2 min
1.3 Dielectric Withstanding Voltage 耐电压	1). samples no breakdown. 样品无击穿, 烧焦等不良. 2). Cut off current: 2mA Maximum 表面漏电: 2 mA Maximum	EIA 364-20 (or MIL-STD-202F, Method 301, Test Condition B) Apply a voltage of 100 VAC between adjacent terminals. of the plugs and receptacles. Electrification Time: 1 min. 施加 100VAC 到公端&母端相邻两根端子之间, 通电时间: 1 min
2.Mechanical Performance（机械性能）		
2.1 Durability 寿命	1).Shall meet visual requirement, show no physical damage. 外观没有任何的物理损坏 2). Contact Resistance value 测试后变化值均≤20mΩ	EIA 364-09 Make the specimens that are on board mated, then fix the receptacles to the machine on horizontal or perpendicular direction. Use the machine catch the plugs and separate the specimens, then make the plugs be fully mated with receptacles at a rate of 12.5millimeters/minute on horizontal or perpendicular direction.duration:30 cycles

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	适用产品	0.35mm 间距, 0.6mm 堆叠高度, 板对板或板对 FPC 连接器, 额定电流 7A Max			

		将焊板的 BTB 公端与母端配合好后将母端水平或垂直固定在测试仪器上, 用仪器夹住公端分离, 然后将公端以 12.5 millimeters/minute 的速度水平或垂直插入焊板母端直到配合到位, 循环 30 次
2.2 Mating Force 插入力	40N Max.	EIA 364-13 Make the specimens that are on board mated, then fix the receptacles to the machine on horizontal or perpendicular direction. Use the machine catch the plugs and separate the specimens, then make the plugs be fully mated with receptacles at a rate of 12.5millimeters/minute on horizontal or perpendicular direction.
2.3 Unmating Force 总拔出力	4N Min. Signal Pin ≥10 pin 4N 最小, 当信号端子≥10 pin 3N Min. Signal Pin <10 pin 3N 最小, 当信号端子<10 pin	将焊板的 BTB 公端与母端配合好后将母端水平或垂直固定在测试仪器上, 用仪器夹住公端分离, 然后将公端以 12.5 millimeters/minute 的速度水平或垂直插入焊板母端直到配合到位
2.4 Contact Retention Force 端子保持力	0.2N/Pin Minimum.	EIA 364-35 The pull speed shall 12.5 mm per minute on the terminal assembled in the housing(Only for female group vertical PIN terminal signal and power PIN) 以 12.5 mm per minute 的速度, 将组装在胶芯内的以垂直方向端子拔出 (仅针对母座组立式端子信号 PIN 及电源 PIN)
2.5. SMT Retention force 焊板保持力	Horizontal direction: 30N Min Vertical direction: 30N Min 水平方向: 30N Min 垂直方向: 30N Min	The product is welded to the PCB board and pushed horizontally and vertically to remove the product from the PCB at a speed of 12.5mm per minute 产品焊接在 PCB 板上, 以 12.5 mm per minute 的速度, 从水平方向和垂直方向推产品, 使产品和 PCB 剥离
2.6. X/Y direction HSGstrength X/Y 推力测试	1) X/Y direction HSG strength need ≥35N (Signal Pin ≥30 pin) HSG X/Y 方向抗剪切破坏强度不小于 35N (当信号端子≥30 pin) 2) X/Y direction HSG strength need ≥30N	BTB on PCB and mating status, make plug and Rec. shear slip by X/Y direction until HSG broken, record curves and get the Max value dates of shear strength. BTB 公母头配合后, 沿 X/Y 方向剪切错动, 直至破坏, 记录 HSG 抗破坏曲线及最大力值;

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	适用产品	0.35mm 间距, 0.6mm 堆叠高度, 板对板或板对 FPC 连接器, 额定电流 7A Max			

	(Signal Pin ≤10 pin) HSG X/Y 方向抗剪切破坏强度不小于 30N (当信号端子≤10 pin)	
2.7.Guiding test 导向能力测试	No broken and scrap on Plug&Rec. side 公母无扣合破损及碎屑	Make mating test by BTB Plug&Rec. offset 0.2mm in X/Y direction, set upper limit mating force ≥60N 公母头 X/Y 方向错位 0.2mm 扣合测试（一端可浮动），扣合力上限设定≥60N；
2.8. resist pressure 抗压力	The terminal cannot be deformed 端子不能出现形变	Perpendicular to the product plane, apply 30N force and hold for 100 seconds 垂直于产品平面，施加 30N 力量，保持 100 秒
2.9. Insertion feel 手感指数	Insertion feel index≥60% 手感率≥60%	设置荷重仪参数, 选择去程-回程, 速度设置在 12.5mm/min; 将测试压头对准 BTB, 用推力机施压, 记录行程-作动力曲线。手感率= (F2-F1) / F2 
3. Environmental performance（环境性能）		
3.1. Vibration 震动测试	1). Shall meet visual requirement, show no physical damage. 外观没有任何的物理损坏 2). No discontinuities of 1 μ sec or longer duration. 扣合测试导通瞬断不可超过 1.0 微秒	MIL-STD-202, Method-201 half-sine wave, apply 0.1 A DC current ° Acceleration: 6G(490m/s ²) 6g frequency: 10-100 Hz; amplitude: 1.50mm sweep time: 20 minute the connectors condition is PCB mounting and the plugs mated with receptacles , they must be tested 1 hours in each of the 3 axis(X,Y,Z), total 3 hours. 半正弦波, 通以 0.1ADC 电流。 测试频率: 10-100 Hz; 振幅: 1.50mm 加速度 6G 波形完成扫描时间: 1 minute; 将公母头配合好之后在 X,Y,Z 3 个轴向各测试 1 小时, 共 3 小时。

 元精技术	产品规格书				
	文件类别	文件编号	生效日期	版 次	产品项目编号
	三阶技术标准	CPT-SS-R-009Y	2024. 04. 16	C/0	B09 系列
	适用产品	0. 35mm 间距, 0. 6mm 堆叠高度, 板对板或板对 FPC 连接器, 额定电流 7A Max			

3.2. Physical Shock 机械冲击测试	1). Shall meet visual requirement, show no physical damage. 外观没有任何的物理损坏 2). No discontinuities of 1 μ sec or longer duration. 扣合测试, 导通瞬断不可超过 1.0 微秒	EIA 364-27 Test Condition A Physical Shock EIA 364-27 Test Condition A (or MIL-STD-202F, Method 213) half-sine wave, apply 0.1ADC current Acceleration: 75G (490m/s ²) duration : 11ms. the connectors condition is PCB mounting and the plugs mated with receptacles , shocking apply to 3 times in each of the 6 direction of 3 axis. 18 total shock. 半正弦波, 通以 0. 1ADC 电流。 测试的重力加速度: 75G (490m/s ²) 测试时间: 11ms. 将焊接 PCB 公母头配合, 在 X, Y, Z 三轴 3 个方向各冲击 3 次, 总共 18 次
3.3. Humidity 恒温恒湿测试	1). Appearance shall not be distinct damage. 不能出现明显的外观损坏 2). Contact Resistance value 测试后变化值均≤20mΩ	EIA 364-31, Test Condition A Method III, (or MIL-202F, Method 103B Test Condition B.) The specimens shall be separated and left in the chamber of 25°C ~65°C temperature and 90~95% humidity for 96hrs. After test drying in ambient condition for 1 hours 将测试样本公母端分离放在一个恒温恒湿的空间内暴露 96 小时, 此空间温度: 25°C~65°C, 相对湿度: 90~95%。测试完成后将样本擦干放置在周围环境中 1 小时
3.4. Temperature shock 冷热冲击测试	1). Appearance shall not be distinct damage. 不能出现明显的外观损坏 2). Contact Resistance value 测试后变化值均≤20mΩ	- 55 + 3 ° C: → 85 + 2 ° C for 30 minutes, 30 minutes. Cycle 5 times -55±3°C : 30 分钟 → 85±2°C : 30 分钟, 循环 5 次
3.5. Resistance to soldering heat 耐焊接热	Appearance: No abnormality. 外观无明显损伤; Coplanarity of the solder tail should be not beyond 0.08mm 焊脚平面度不超 0.08mm	According to the following conditions to test connector. 1. Infrared reflow soldering, the peak temperature of 260 degrees Celsius, reference temperature curve, and the requirements of the SMT2 time; 2. electric soldering iron, requires 300 degrees 5 seconds, 350 degrees below 3 seconds. 按下列条件进行测试:

 元精技术	产品规格书				
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	三阶技术标准	CPT-SS-R-009Y	2024. 04. 16	C/0	B09 系列
	适用产品	0.35mm 间距, 0.6mm 堆叠高度, 板对板或板对 FPC 连接器, 额定电流 7A Max			

		1.红外线回流焊接, 峰值温度260度以下, 可参考温度曲线图(5.0), 且要求SMT2次; 2. 电烙铁, 需要 300 度 5 秒, 350 度以下 3 秒。
3.6.Solder ability 焊接性	The surface of the portion to be soldered shall at least 95% covered area must show no voids, pin holes 要求焊脚润锡面积达到浸润面积的 95%以上	EIA 364-52 Make the specimens' tail tested by the last testing step immersion into molten solder at 245+/-5℃ for 3+/-0.5 seconds. 测试样本焊脚浸润在温度为 245+/-5℃的熔融态锡里面 2+/-0.5s。然后将样本拿出。
3.7.Resistance to high storage temperature 高温存储测试	1). Appearance shall not be distinct damage. 不能出现明显的外观损坏 2). Contact Resistance value 测试后变化值均≤20mΩ	Make the samples be separated and Leave them in the chamber of temperature +110℃+/-3℃ for 96hr, then it shall be subjected to standard atmospheric condition for 1~2h 将测试样本分离放置在一个+110℃+/-3℃的空间里暴露 96 小时, 然后在标准环境下放置 1-2h.
3.8. resistance to low storage temperature 低温存储测试	1). Appearance shall not be distinct damage. 不能出现明显的外观损坏 2). Contact Resistance value 测试后变化值均≤20mΩ	Make the samples be separated and Leave them in the chamber of temperature -40℃+/-2℃ for 96hr, then it shall be subjected to standard atmospheric condition for 1~2h 将测试样本分离放置在一个-40℃+/-3℃的空间里暴露 96 小时, 然后在标准环境下放置 1-2h
3.9. Salt water spray 盐雾测试	1). Appearance shall not be distinct damage. 不能出现明显的外观损坏 2). Contact Resistance value 测试后变化值均≤20mΩ	EIA 364-16A (MIL-STD-202 METHOD 101) Temperature: 35℃±2℃ 温度: 35℃±2℃ Density of salt water : 5±1% 盐水浓度: 5±1% Duration: 48±2 hours. 持续时间: 48±2 hours.
3.10. Times of Rework Soldering 耐焊接次数	1). Appearance shall not be distinct damage. 不能出现明显的外观损坏	IR Reflow welding twice 过两次回流焊
3.11.Temperature rise test 温升测试	Temperature rise 30℃ Max 温度升高最大 30℃	Apply the maximum rated current to the paired connectors and measure the temperature rise. (EIA 364-70 Method1) 将最大额定电流施加到配合的连接器和测量温升。(EIA 364-70 Method1)

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	适用产品	0.35mm 间距, 0.6mm 堆叠高度, 板对板或板对 FPC 连接器, 额定电流 7A Max			

Note 1: When there are more than 50 pins, the total current of all terminals is 10A (signal terminals only)
注释 1：当有 50 以上 pin 数时，所有端子的总电流为 10A（仅信号端子）

Note 2: Contains temperature rise due to current
注释 2：包含电流引起的温升

Note 3: Storage refers to the long-term storage of unused items before they are installed on the PCB
注释 3：存储是指在将未使用的物品安装在 PCB 上之前的长期存储。

The operating temperature/humidity range is suitable for temporary storage conditions, such as when there is no current after installation on the PCB, and when there is no current during transportation.
工作温度/湿度范围适用于临时存储状态，如安装在 PCB 上以后未通电流和运输期间无电流时。

测试项目 Test Description	测试组别及顺序 Test Group and Sequence															
	A 组 Group A	B 组 Group B	C 组 Group C	D 组 Group D	E 组 Group E	F 组 Group F	G 组 Group G	H 组 Group H	I 组 Group I	J 组 Group J	K 组 Group K	M 组 Group M	N 组 Group N	L 组 Group L	O 组 Group O	P 组 Group P
产品形态 Conformation of Product	1	1, 5	1, 7	1, 3	1, 3	1, 3	1, 4	1, 4	1, 4	1, 4	1, 4	1, 4	1, 5	1, 3	1, 3	1, 3
尺寸测试 FAI	2															
接触阻抗 Low Level Contact Resistance		2	2, 8				2, 5	2, 5	2, 5	2, 5	2, 5	2, 5	2, 6			
绝缘阻抗 Insulation Resistance		3											3, 7			
耐电压 Dielectric Withstanding Voltage		4														
插拔力 Mating and Unmating Force			3, 4													
寿命测试 Durability			5													
X/Y 推力测试 X/Y direction HSGstrength				2												
导向能力测试 Guiding test					2											
抗压力 Resist pressure						2										
恒温恒湿测试 Resistance to soldering heat							3									

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冷热冲击测试 Temperature shock								3								
高温存储测试 Resistance to high storage temperature									3							
低温存储测试 resistance to low storage temperature										3						
震动测试 Vibration											3					
耐冲击测试 Shock resistance												3				
盐雾测试 Salt Spray													4			
焊接性测试 Solder ability														2		
手感指数 Insertion feel			6													
焊板保持力 SMT Retention force														4		
耐焊接热 Resistance to soldering heat															2	
升温测试 Temperature rise test																2
样品数量 Sample size	5PCS	5PCS	5PCS	5PCS	5PCS	5PCS	5PCS	5PCS	5PCS	5PCS	5PCS	5PCS	5PCS	5PCS	5PCS	5PCS

■材质 / 处理

(Product) 产品	(Part) 部件	(material)材质	Description 描述	UL 规格
(Plug) 插头	(Insulator) 主体	LCP	Black 黑	UL94V-0
	(Signal Pin) 信号 pin	(opper alloy) 铜合金	Au4u" Min ON CONTACT AREA, Au1u" Min ON SOLDER AREA, Ni 50u"Min ALL OVER.	-----
	(Power Pin) 电源 pin	(Copper alloy) 铜合金	接触区镀金 4u"最小, 焊接区镀金 1u"最小。全区镍底 50u"最小。	-----

CPT 元精技术	产品规格书				
	文件类别	文件编号	生效日期	版 次	产品项目编号
	三阶技术标准	CPT-SS-R-009Y	2024. 04. 16	C/0	B09 系列
	适用产品	0.35mm 间距, 0.6mm 堆叠高度, 板对板或板对 FPC 连接器, 额定电流 7A Max			

(Product) 产品	(Part) 部件	(material)材质	Description 描述	(UL SPEC) UL 规格
(Receptacle) 插座	(Insulator) 主体	LCP	Black 黑	UL94V-0
	(Signal Pin) 信号 pin	(Copper alloy) 铜合金	Au4u" Min ON CONTACT AREA, Au1u" Min ON SOLDER AREA, Ni	-----
	(Power Pin) 电源 pin	(Copper alloy) 铜合金	50u"Min ALL OVER. 接触区镀金 4u"最小, 焊接区镀金 1u"最小。全区镍底 50u"最小。	-----

■The composition of the product model (产品型号的构成)

Please refer to the figure below to determine the product specifications according to the product model. When purchasing, please select the desired product model from this catalog
请参考下图, 根据产品型号确定产品规格。采购时, 请从本目录中选择所需的产品型号。

■Reception (插座)

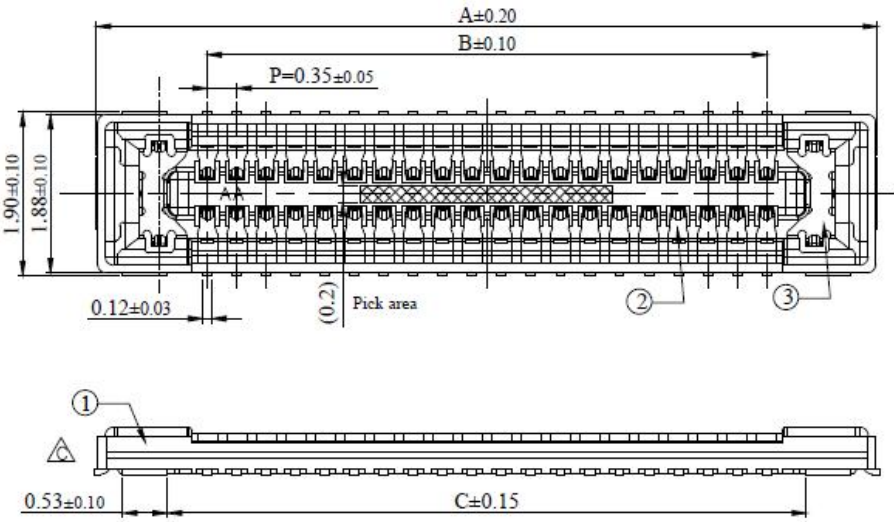
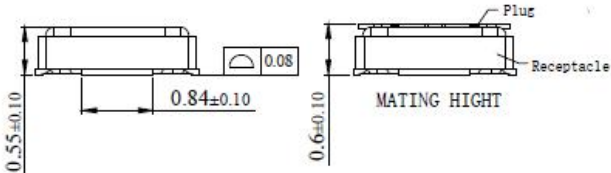


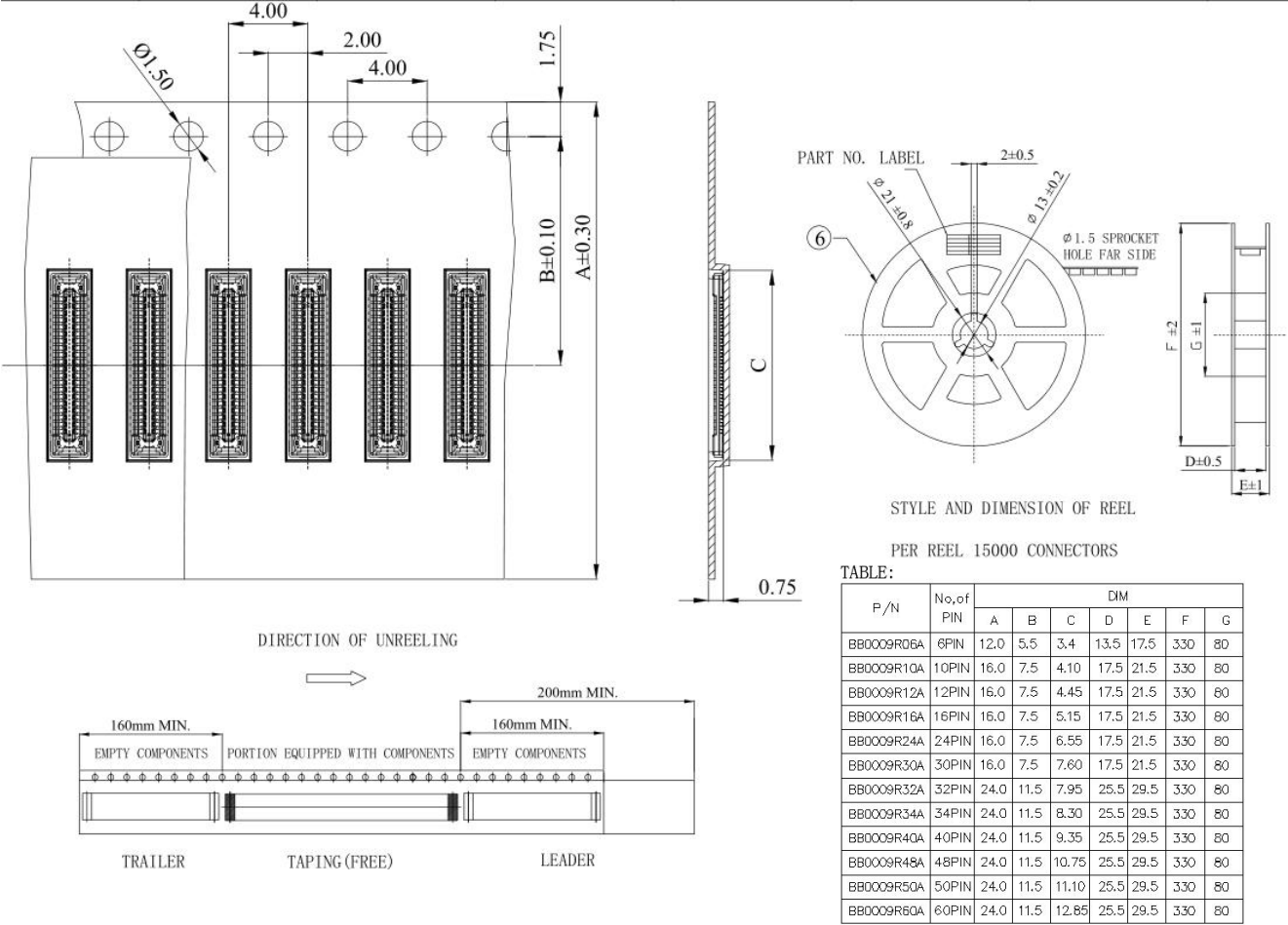
TABLE:

P/N	No. of PIN	DIM						
		A	B	C	D	E	F	G
BB0009R06A	6PIN	3.30	0.70	1.62	3.545	1.42	1.07	2.25
BB0009R10A	10PIN	4.00	1.40	2.32	4.245	2.12	1.77	2.95
BB0009R12A	12PIN	4.35	1.75	2.67	4.595	2.47	2.12	3.30
BB0009R16A	16PIN	5.05	2.45	3.37	5.295	3.17	2.82	4.00
BB0009R24A	24PIN	6.45	3.85	4.77	6.695	4.57	4.22	5.40
BB0009R30A	30PIN	7.50	4.90	5.82	7.745	5.62	5.27	6.45
BB0009R32A	32PIN	7.85	5.25	6.17	8.095	5.97	5.62	6.80
BB0009R34A	34PIN	8.20	5.60	6.52	8.445	6.32	5.97	7.15
BB0009R40A	40PIN	9.25	6.65	7.57	9.495	7.37	7.02	8.20
BB0009R48A	48PIN	10.65	8.05	8.97	10.895	8.77	8.42	9.60
BB0009R50A	50PIN	11.00	8.40	9.32	11.245	9.12	8.77	9.95
BB0009R60A	60PIN	12.75	10.15	11.07	12.995	10.87	10.52	11.70



产品规格书				
	文件类别	文件编号	生效日期	版 次
	三阶技术标准	CPT-SS-R-009Y	2024. 04. 16	C/0
	适用产品	0.35mm 间距, 0.6mm 堆叠高度, 板对板或板对 FPC 连接器, 额定电流 7A Max		

Packing specification(包装规格)



 元精技术	产品规格书				
	文件类别	文件编号	生效日期	版 次	产品项目编号
	三阶技术标准	CPT-SS-R-009Y	2024. 04. 16	C/0	B09 系列
适用产品	0.35mm 间距, 0.6mm 堆叠高度, 板对板或板对 FPC 连接器, 额定电流 7A Max				

■PLUG (插头)

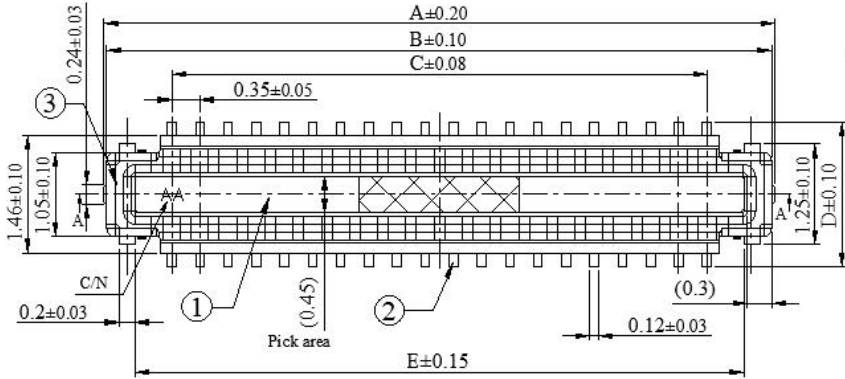
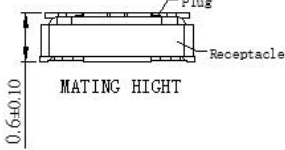
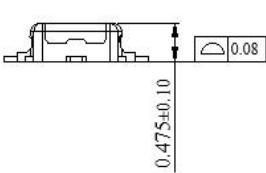
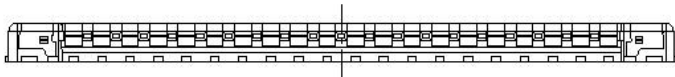
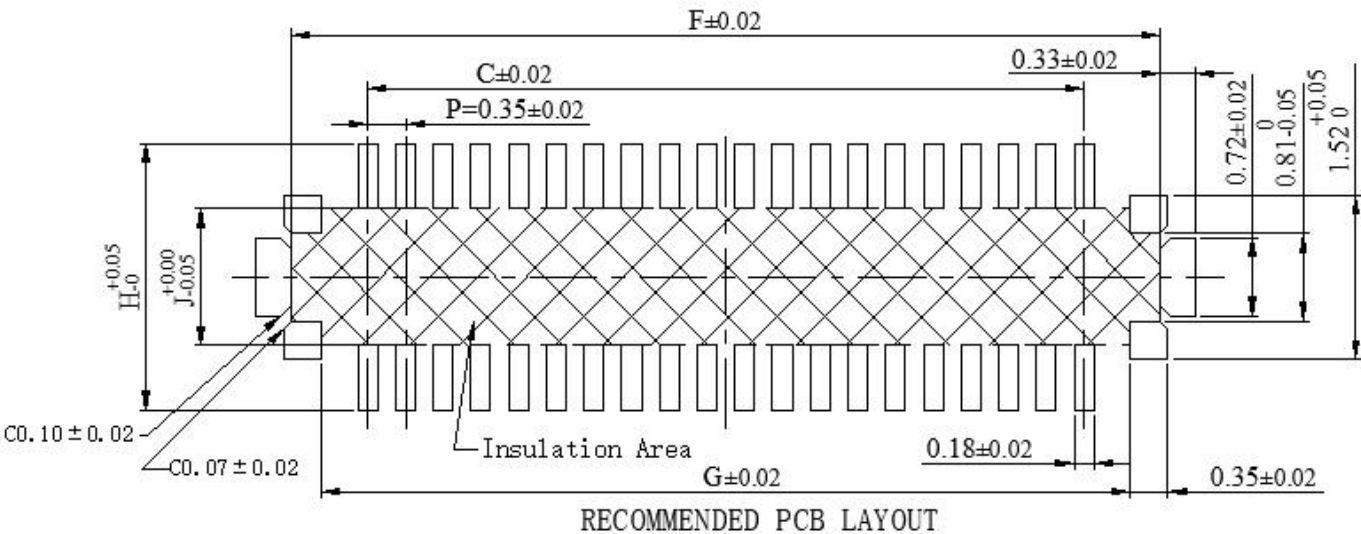


TABLE:

P/N	No. of PIN	DIM											
		A	B	C	D	E	F	G	H	J	K	L	
BB0009P06A	6PIN	2.35	2.31	0.70	1.80	1.665	2.12	1.56	2.16	1.06	2.26	1.16	
BB0009P10A	10PIN	3.05	3.01	1.40	1.80	2.365	2.82	2.26	2.16	1.06	2.26	1.16	
BB0009P12A	12PIN	3.40	3.36	1.75	1.80	2.715	3.17	2.61	2.46	1.26	2.66	1.46	
BB0009P16A	16PIN	4.10	4.06	2.45	1.80	3.415	3.87	3.31	2.46	1.26	2.66	1.46	
BB0009P24A	24PIN	5.50	5.46	3.85	1.80	4.815	5.27	4.71	2.46	1.26	2.66	1.46	
BB0009P30A	30PIN	6.55	6.51	4.90	1.80	5.865	6.32	5.76	2.46	1.26	2.66	1.46	
BB0009P32A	32PIN	6.90	6.86	5.25	1.80	6.215	6.67	6.11	2.46	1.26	2.66	1.46	
BB0009P34A	34PIN	7.25	7.21	5.60	1.80	6.565	7.02	6.46	2.46	1.26	2.66	1.46	
BB0009P40A	40PIN	8.30	8.26	6.65	1.80	7.615	8.07	7.51	2.46	1.26	2.66	1.46	
BB0009P48A	48PIN	9.70	9.66	8.05	1.80	9.015	9.47	8.91	2.46	1.26	2.66	1.46	
BB0009P50A	50PIN	10.05	10.01	8.40	1.80	9.365	9.82	9.26	2.46	1.26	2.66	1.46	
BB0009P60A	60PIN	11.80	11.76	10.15	1.80	11.115	11.57	11.01	2.46	1.26	2.66	1.46	



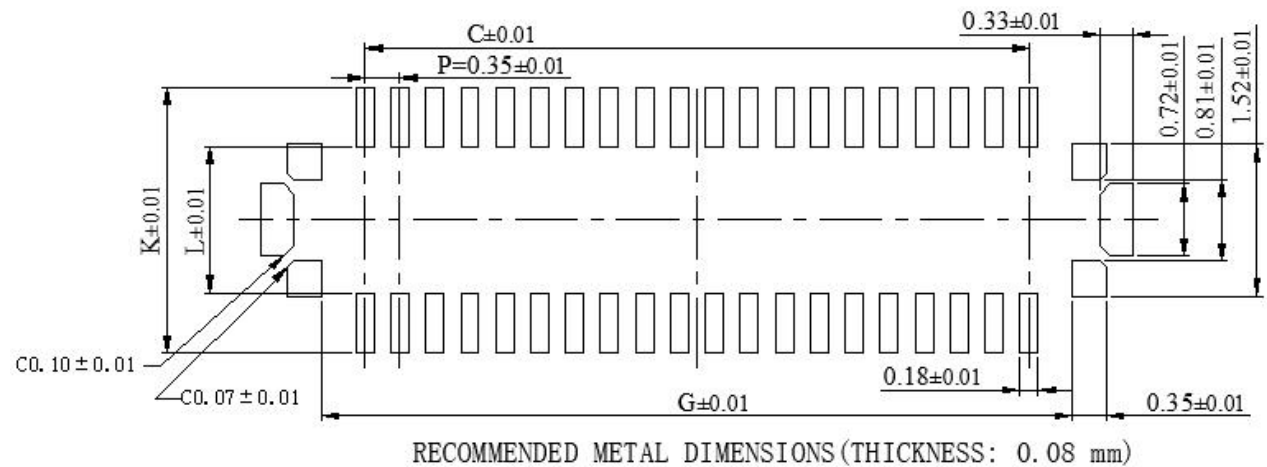
■RECOMMENDED PCB LAYOUT(推荐的 PCB 主板配置图)



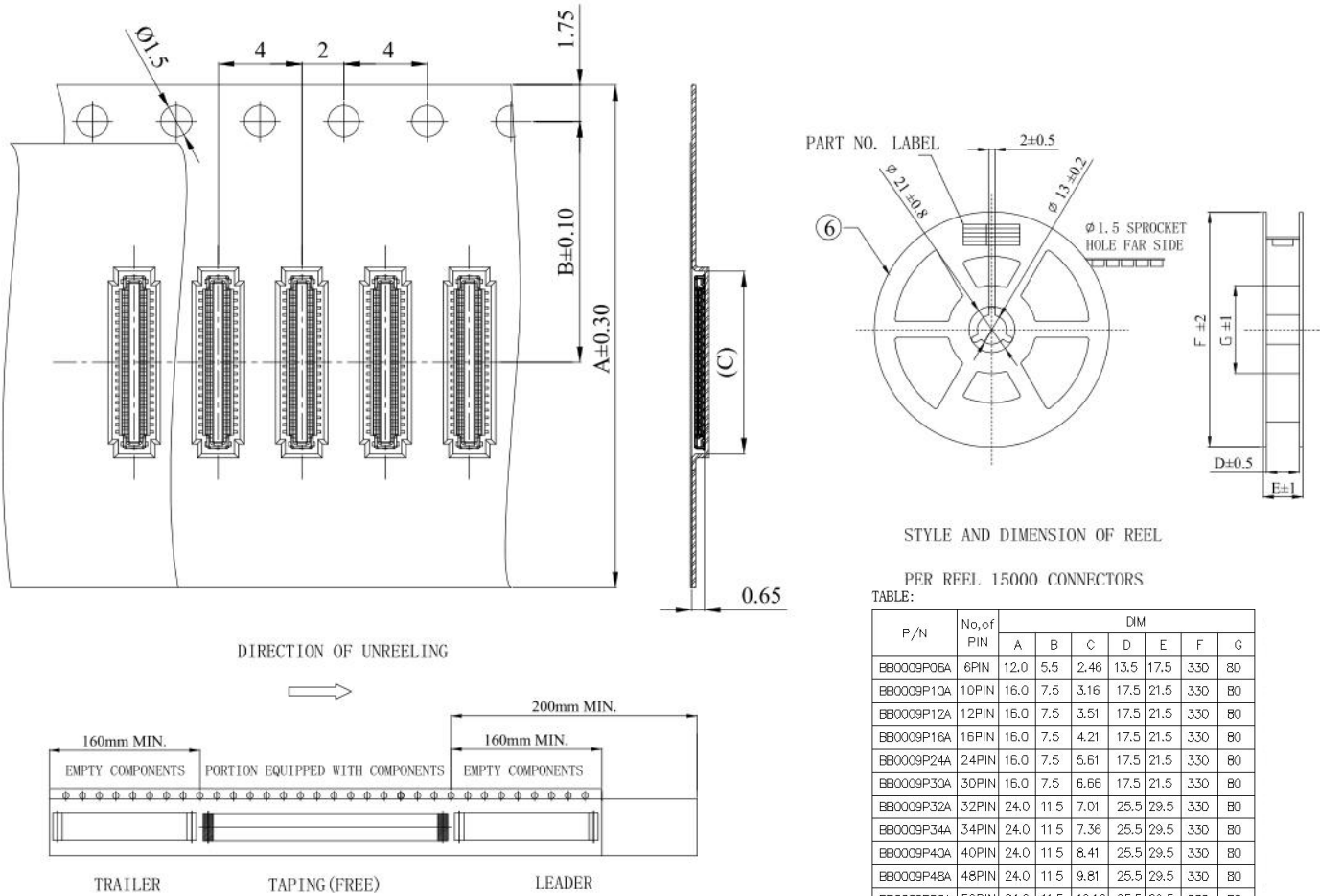
	产品规格书				
	文件类别	文件编号	生效日期	版 次	产品项目编号
	三阶技术标准	CPT-SS-R-009Y	2024. 04. 16	C/0	B09 系列
	适用产品	0.35mm 间距, 0.6mm 堆叠高度, 板对板或板对 FPC 连接器, 额定电流 7A Max			

RECOMMENDED METAL DIMENSIONS(Thickness of steel mesh:80μm)

推荐钢网尺寸（钢网厚度：80μm）



Packing specification(包装规格)



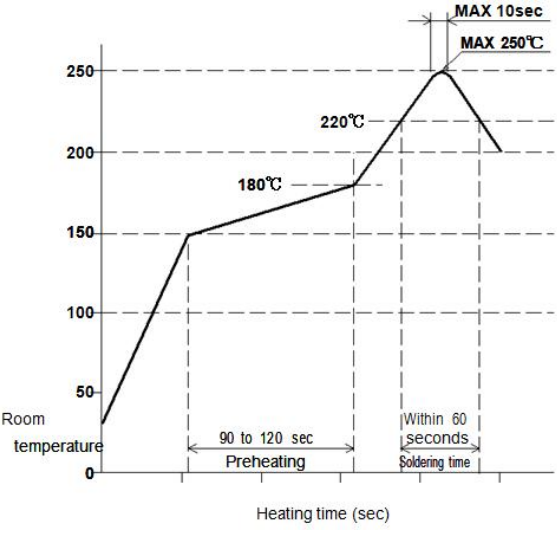
STYLE AND DIMENSION OF REEL

PER REEL 15000 CONNECTORS
TABLE:

P/N	No. of PIN	DIM						
		A	B	C	D	E	F	G
BB0009P06A	6PIN	12.0	5.5	2.46	13.5	17.5	330	80
BB0009P10A	10PIN	16.0	7.5	3.16	17.5	21.5	330	80
BB0009P12A	12PIN	16.0	7.5	3.51	17.5	21.5	330	80
BB0009P16A	16PIN	16.0	7.5	4.21	17.5	21.5	330	80
BB0009P24A	24PIN	16.0	7.5	5.61	17.5	21.5	330	80
BB0009P30A	30PIN	16.0	7.5	6.66	17.5	21.5	330	80
BB0009P32A	32PIN	24.0	11.5	7.01	25.5	29.5	330	80
BB0009P34A	34PIN	24.0	11.5	7.36	25.5	29.5	330	80
BB0009P40A	40PIN	24.0	11.5	8.41	25.5	29.5	330	80
BB0009P48A	48PIN	24.0	11.5	9.81	25.5	29.5	330	80
BB0009P50A	50PIN	24.0	11.5	10.16	25.5	29.5	330	80
BB0009P60A	60PIN	24.0	11.5	11.91	25.5	29.5	330	80

 元精技术	产品规格书				
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■Matters needing attention 注意事项

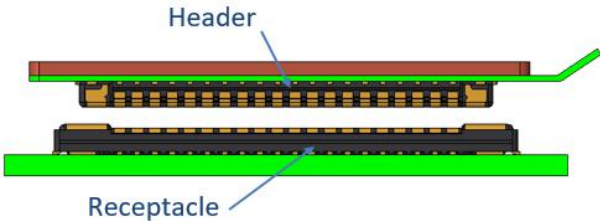
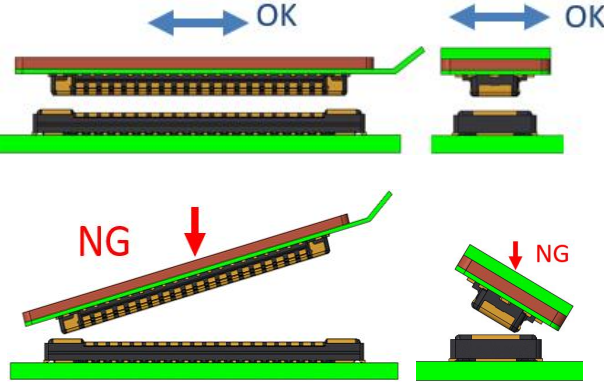
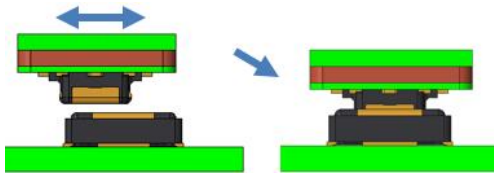
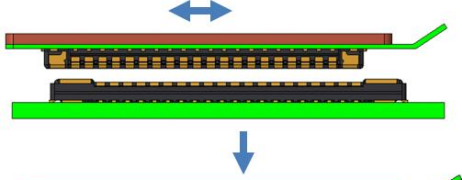
1.Recommended Soldering temperature 推荐焊锡温度	 condition [条件] - Maximum temperature: 250° C Max 峰值温度 : 最大到 250° C - Heating stage temperature: 220° C Min, 60s Max 加热部分 : 220° C 以上, 60 秒以内 - Preheating stage: 150~180° C;90s~120s 预热部分 : 150 到 180° C, 90 到 120 秒 - Number of IR reflow: 2 Max 焊锡次数 : 最多 2 次 Note 1: Temperature refers to the PCB surface temperature 注释 1 : 温度是指 PCB 板表面温度。
3. Manual welding conditions are recommended 推荐手动焊接条件	Soldering iron temperature:340 ± 10°C 焊铁温度 : 340 ± 10°C ; Soldering time: 3s Max 焊锡时间 : 3 秒内
3. Recommended thickness of steel mesh, Ratio of steel mesh to pad area on PCB board 推荐钢网厚度及, 钢网 孔所占 PCB 板上焊盘面 积比	thickness of steel mesh:0.08mm 钢网厚度 : 0.08mm 钢网孔所占 PCB 板焊盘面积比: DS 侧 100% ; DP 侧: 信号端子 100%,电源端子 80%
4. Motherboard warping	warpage from the connector center to the connector ends : 0.02mm Max

 元精技术	产品规格书				
	文件类别	文件编号	生效日期	版 次	产品项目编号
	三阶技术标准	CPT-SS-R-009Y	2024. 04. 16	C/0	B09 系列
	适用产品	0. 35mm 间距, 0. 6mm 堆叠高度, 板对板或板对 FPC 连接器, 额定电流 7A Max			

主板翘曲	从连接器中心到连接器两端的最大翘曲为 0.02mm
5. clean 清洁	Cleaning is not recommended. If you clean this product, evaluate its performance before use (Because cleaning may damage its plugging characteristics and reduce resistance to environmental factors) 不建议进行清洗。如果您要清洁此产品, 请在使用前评估其性能。(因清洁可能会损害其插拔的特性, 并降低对环境因素的抵抗力)
6. Matters needing attention 注意事项	●Do not insert or remove the connector before it is installed on the mainboard. Otherwise, the connector may be damaged 连接器还未安装在主板上时不建议进行插拔, 否则可能会出损坏 ●Do not use only connectors to support the PCB board because contacts may be damaged or deformed. Use other methods to support the board, such as bolts and studs 因可能会造成触点的损坏或变形, 请避免仅靠连接器支撑 PCB 板, 请采用其他方式来支撑主板例如螺栓、螺栓、螺柱等 ●Excessive insertion or removal may damage the connector. Pay more attention to this 过度插拔可能会造成损伤, 请注意 ●Do not use any flux for manual welding 如果是手工焊接, 请勿使用任何助焊剂。 ●There may be slight color differences between production batches that do not affect performance 不同批次可能会有轻微的颜色差异, 不影响性能。 ●See the next page for precautions when inserting and removing 有关插拔时的注意事项, 请参阅下一页。 Since the product may fall off when dropped (or otherwise shock), it is recommended to secure the paired connectors to the board using housing and cushioning materials ●由于产品在跌落(或其他冲击)时可能会脱落, 建议使用外壳和缓冲材料将配对的连接器固定到板上。 ●Please use the product under the recommended specifications (such as rated current, rated voltage, PCB board design and working environment, etc.). If the parameter is not recommended, smoke, fire, and short circuit may occur. For precautions, please refer to the specifications and guidelines. For conditions other than those specified in the specifications and operation guidelines, please consult our company 请在推荐的规格参数下使用本产品(例如额定电流、额定电压、PCB 板设计和工作环境等), 如使用非推荐的参数可能会造成冒烟, 起火, 短路等故障。有关注意事项, 请参阅规范和指南, 如使用规格书及操作指南上规定以外的条件参数, 请咨询本公司

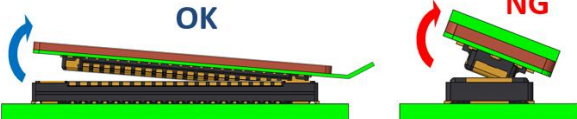
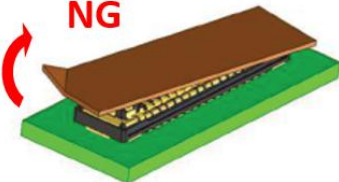
 元精技术	产品规格书				
	文件类别	文件编号	生效日期	版 次	产品项目编号
	三阶技术标准	CPT-SS-R-009Y	2024. 04. 16	C/0	B09 系列
	适用产品	0.35mm 间距，0.6mm 堆叠高度，板对板或板对 FPC 连接器， 额定电流 7A Max			

■Connectors inserting Precautions（扣合连接器时的注意事项）

	
Alignment method（对正方法） 	Use parallel alignment to ensure correct insertion. Do not apply excessive force. If excessive force is applied, the connector may be damaged or scratched, resulting in electrical contact failure 扣合时请平行对齐以确保正确插入，不要施加过大的力，如果施加过大的力，连接器可能会发生破损、刮伤，从而导致电接触发生故障
Please align the connectors （请对准连接器）  Please align the connectors （请对准连接器）  Make sure the connectors mated completely. （请确保连接器完全插入到位） 	Insert guide will guide the connector into parallel during insertion and limit its movement from front to back and left to right. Please insert it in parallel according to the picture on the left 扣合导向在扣合时会引导连接器平行进入，限制其前后左右的移动，请按照左图所示扣合时平行扣入

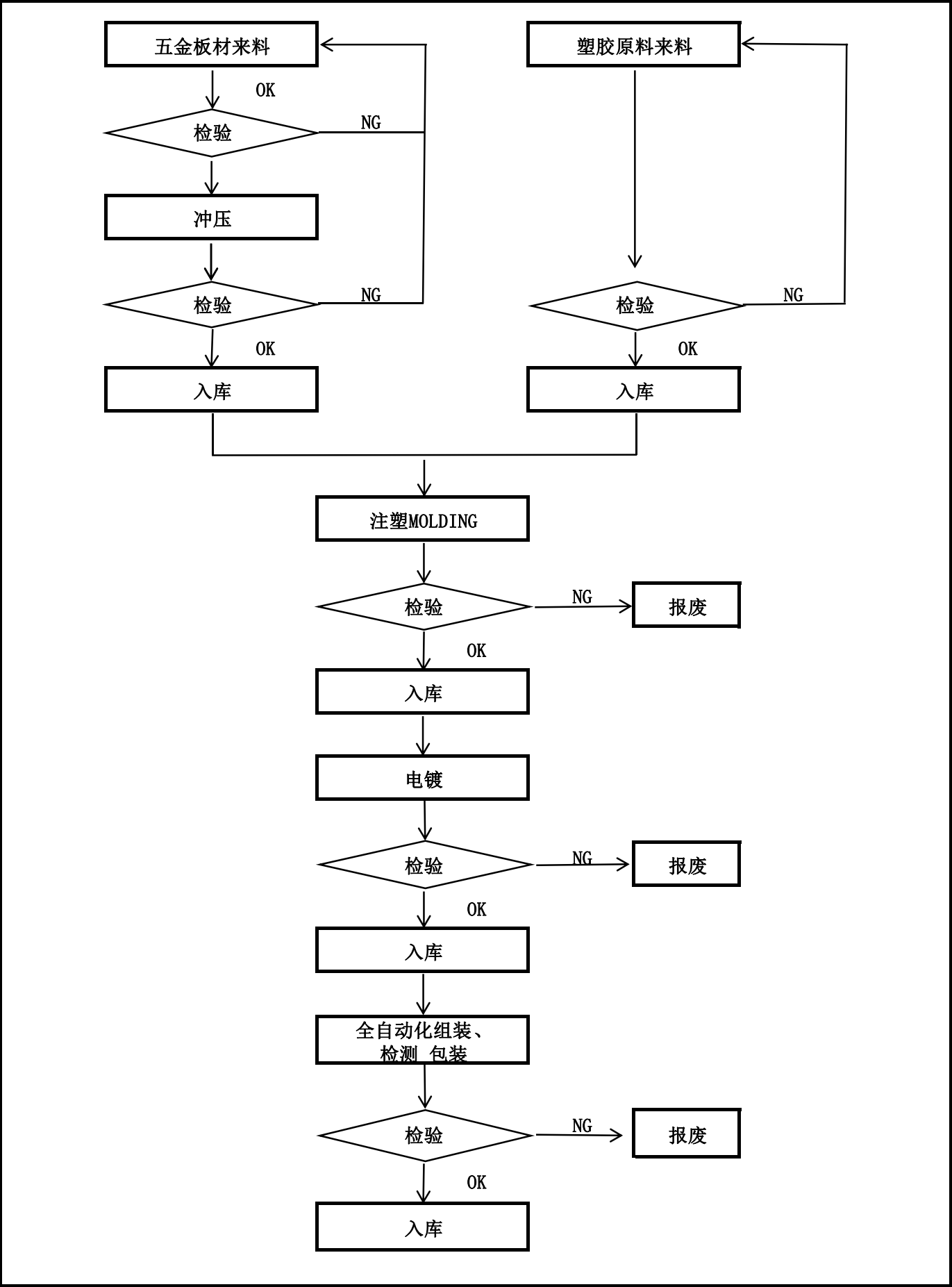
 元精技术	产品规格书				
	文件类别	文件编号	生效日期	版 次	产品项目编号
	三阶技术标准	CPT-SS-R-009Y	2024. 04. 16	C/0	B09 系列
	适用产品	0.35mm 间距，0.6mm 堆叠高度，板对板或板对 FPC 连接器， 额定电流 7A Max			

■ Connector Un-mating Precautions (拔出连接器时的注意事项)

	Pull out the connector in parallel 拔出连接器时请平行拔出
	If you cannot pull out the connector in parallel, lift it from the center of one end of the connector as shown in the figure. However, when the FPC strength is insufficient, the connector may be broken. Please confirm while operating 操作时如无法平行拔出，请如图所示从连接器的一端中心位置翘起。 但当 FPC 刚性不足时可能会发生连接器折断，请在试操作时进行确认。
	As shown in the picture, when the PCB board is pulled out by force at only one Angle, the terminals and connectors may be damaged. 如图片所示，PCB 板只有一个角受力拔出操作时，有可能会对端子及连接器造成损伤。
	Please do the design of the FPC reinforcement board. When the FPC strength is poor, the connector will break, as shown in the figure. Please repeat the operation to confirm when using FPC. The auxiliary reinforcement plate is recommended to use epoxy resin material of 0.3mm or above and stainless steel sheet of 0.2mm or above. 请务必做 FPC 增强板的设计。当 FPC 刚性较差时就会发生如图中的连接器折断。请客户使用 FPC 过程中反复操作确认。所说的辅助增强板推荐使用 0.3mm 以上的环氧树脂材料、0.2mm 以上的不锈钢片。

CPT制造流程图

品名:BTB CONN, Plug BTB CONN, REC 06pin, P0.35mm, 镀金 4u"Min, Black	料号: BB0009P06A BB0009R06A	版次: A
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控制计划

试产 量产

产品名称		B09 系列公头				产品料号		BB0009PXXA			文件编号		CPT-CP-Q-023	
制定小组		组长/曾晓明 质量/涂小琴 研发/韦庆贡 冲压/燕士利 注塑/廖文理 组装/孟喜平							版本		A/0			
修订履历									修订履历					
版次	修订日期	修订内容					修订者		版次	修订日期	修订内容		修订者	
A/0	2023. 10. 15	新制订					涂小琴							
零件过程编号	过程名程/操作描述	制造用之机器、工装、设备	特性			特殊特性分类	方法						反应计划	
			编号	产品要求	制程参数		产品/过程规范/公差	评价/测量技术	取样		控制方法			
									容量	频率				
1	五金板材进料检验	相应检测设备, 工治具及目视检测	1	材质		核对供应商提供的材质证明	目视	依《五金板材检验规范》进行批次检验	进料检验报告	退货				
			2	外观		符合五金板材检验规范	目视			退货				
			3	尺寸		宽度公差为-0. 10mm，厚度公差为+/-0. 005mm；	目视			退货				
			4	折弯测试		用夹具夹住铜板两端折弯180度，弯折处不可存在起皮，裂纹等不良现象；	钳子/目视/显微镜			退货				
			5	硬度	CTQ	符合材质硬度范围	维氏硬度计			退货				
			6	HSF测试	CTQ	依《HSF检验作业办法》判定	RoHS测试仪			退货				
			7	标识		料号, 数量, 实物与标签必须相符, 合格标签//环保标签等必须正确.	目视			退货//特采				
2	塑胶原料进料检验	相应检测设备, 工治具及目视检测	1	材质		核对供应商提供的材质证明	目视	依《塑胶原料检验规范》进行批次检验	进料检验报告	退货				
			2	色泽		用样品与来料做比对,色泽须一致.	目视			退货				
			3	颗粒		样品与来料做比对,颗粒大小应一致。	目视			退货				
			4	水份测试		1. 取样20-30g 2. 普通料水份含量小于0. 4%, 高性能水份含量小于0. 2%	水份测试仪			退货				
			5	HSF测试	CTQ	依HSF检验作业办法判定	RoHS测试仪			退货				
			6	标识		料号, 数量, 实物与标签必须相符, 合格标签//环保标签等必须正确.	目视			退货//特采				
3	包装载带进料检验	相应检测设备, 工治具及目视检测	1	外观		符合《包装载带检验规范》要求	目视	依《包装载带检验规范》进行批次检验	进料检验报告	退货				
			2	折弯测试		双手夹持载带2边往正面折弯90度再往反面折弯90度，弯折处不可存在断裂，无韧性等不良现象；	目视			退货				
			3	试装		装入样品，无卡料/产品无翻转	目视			退货				
			4	HSF测试	CTQ	依HSF检验作业办法判定	RoHS测试仪			退货				
			5	标识		料号, 数量, 实物与标签必须相符, 合格标签//环保标签等必须正确.	目视			退货//特采				



元精技术有限公司

控制计划

试产 量产

产品名称		B09 系列公头			产品料号		BB0009PXXA			文件编号		CPT-CP-Q-023		
制定小组		组长/曾晓明 质量/涂小琴 研发/韦庆贡 冲压/燕士利 注塑/廖文理 组装/孟喜平							版本		A/0			
修订履历							修订履历							
版次	修订日期	修订内容					修订者		版次	修订日期	修订内容		修订者	
A/0	2023. 10. 15	新制订					涂小琴							
零件过程编号	过程名程/操作描述	制造用之机器、工装、设备	特性		特殊特性分类	方法							反应计划	
			编号	产品要求		制程参数	产品/过程规范/公差	评价/测量技术	取样		控制方法			
									容量	频率				
4	端子/地片 冲压成型	冲压机	1	尺寸		符合产品检验规范要求		二次元	1模	首件检验 IPQC巡检1次/2H	首件检验记录表 冲压IPQC巡检记录表	重新//调整//特采		
			2	外观		产品无刮伤,压伤,氧化,变形,弧形扭曲等不良现象		目视	3模					
			3	包装		包装：绕向与图面要求一致，不可绕的过紧导致产品变形；标识：料号,数量,实物与标签必须相符		目视/显微镜	每盘					
			4		冲速		符合《冲压工艺参数标准书》		目视	随机	首件/调机后/交接班确认	冲压自主检验记录表	重新调整	
5	原料烘烤	真空烘烤箱	1		温度，时间	LCP E130I温度:120~140 时间:4-6h		目视	随机	每批	烘料记录表	重新烘烤		
6	Molding主体 注塑成型	注塑机	1	尺寸		符合产品图纸要求		二次元/卡尺/平台/锡钢片	1模	首件检验 IPQC巡检1次/6H	首件检验记录表 注塑IPQC巡检记录表	调整//报废//特采//重工		
			2	外观		塑胶不可有烧焦、毛边、多料、起泡、破裂、不饱模、缩水、变形等不良现象		目视//显微镜	5模	首件检验 IPQC巡检1次/2H				
			3	包装		用清洁,干燥,无异物及残液的塑胶盘装,并放置干燥剂,再用干燥塑胶袋进行封装;料号、数量、实物与标签必须与图纸、检验规范、生产任务通知单相符		目视	全检（每盘盖章）					
			4	破坏强度		施加力量断裂250g MIN		插拔力测试仪	1模	首件检验 IPQC巡检1次/6H				
			5	IR测试		CTQ	塑胶不可有起泡、裂纹、变形等不良现象，端子不可有发红、发黑等不良现象		IR炉	5模	首件检验 IPQC巡检1次/班	注塑自主检验记录表	重新调整	
			6		模温、压力、成型周期		符合《注塑标成型参数标准书》要求		目视	/	首件/调机后/交接班确认			
7	Molding主体 外协电镀进料检验	相应检测设备,工治具及目视检测	1	外观		主体不可有变形,歪斜,扭曲,刮伤,等不良现象,塑胶上不可包金,腐蚀等不良现象;电镀层不可有镀层发白,镀层发黑,脱落,龟裂,烧焦,色差,漏镀,脏污,氧化等电镀不良现象		目视/显微镜	依《MD电镀品检验规范》进行 批次检验			进料检验报告	退货	
			2	膜厚		CTQ	符合图纸要求						膜厚仪	退货
			3	附着性		CTQ	用钳子将产品90° 弯折,弯折后镀层无起皮,起泡,裂纹,脱落等现象						钳子/目视/显微镜	退货
			4	可焊性		CTQ	温度:255±5℃ 5±0.5秒 浸锡部位光滑饱满面积≥95 %						无铅锡炉	退货
			5	耐腐蚀性			盐水浓度:(5±1) % PH值:6.5~7.2 试验箱温度:35±2℃. 压力桶温度:47±2℃. 实验时间符合图纸要求. 检验功能面无腐蚀,起皮/泡,变色铜绿.						盐雾测试机	退货



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修订履历									修订履历					
版次	修订日期	修订内容						修订者		版次	修订日期	修订内容		修订者
A/0	2023. 10. 15	新制订						涂小琴						
零件过程编号	过程名程/操作描述	制造用之机器、工装、设备	特性			特殊特性分类	方法						反应计划	
			编号	产品要求	制程参数		产品/过程规范/公差	评价/测量技术	取样		控制方法			
									容量	频率				
			6	包装			依产品图纸，产品不可超出纸带且勿绕装过紧;核对品名/规格,数量,实物与标签必须相符,月份标识正确;		目视				退货//特采	
8	自动化组装	相应检测设备,工治具及目视检测	1	外观	全检		胶芯有不可有毛边,缺料,多料,变形,刮伤,打伤,裂纹,顶针位高,底部不平整等不良现象。端子不可有压伤,刮伤,缺pin,端子变形,塑胶破损,电镀不良,焊脚毛边,焊脚变形,端子包胶等不良现象。成品不可有零件未装到位,少部件,焊脚歪斜,实物与图纸符合等不良现象。		目视/显微镜	30PCS	首/末件检验 IPQC巡检1次/2H	首件检验记录表 组装IPQC巡检记录表	调整//报废//特采//重工	
			2	尺寸			符合产品检验规范		二次元	5PCS	首/末件检验 IPQC巡检1次/4H	首件检验记录表 组装IPQC巡检记录表	调整//报废//特采//重工	
			3	对插			公母对插5次需顺畅,塑胶不可有破损现象		对应的母头	5PCS	首/末件检验 IPQC巡检1次/4H	首件检验记录表 组装IPQC巡检记录表	报废//特采	
			4	IR测试	CTQ	无起泡,变形,镀层变色,镀层脱落等不良现象		IR炉	5PCS	首/末件检验 IPQC巡检1次/4H	首件检验记录表 组装IPQC巡检记录表	报废//特采		
			5	焊锡性	CTQ	温度:255±5℃ 5±0.5秒 浸锡部位光滑饱满面积≥95 %		无铅锡炉	5PCS	首/末件检验 IPQC巡检1次/4H	首件检验记录表 组装IPQC巡检记录表	报废//特采		
			6	模拟震动		拉出1M已包装产品,在工作台上进行正面,反面,侧面各抽甩一次后包装无爆带,产品无翻转		目视//显微镜	5PCS	首/末件检验 IPQC巡检1次/4H	首件检验记录表 组装IPQC巡检记录表	调整//报废//特采//重工		
			7	性能测试		符合产品规格书		按规格书的测试项目定	65PCS	新产品连续三批实验OK后转年度性能测试				
9	成品检验(FQC)	相应检测设备,工治具及目视检测	1	外观		产品不可有变形、划伤、压伤等不良现象,产品在载带中不可有放反、漏放等不良现象		目视/显微镜	依《成品检验规范》进行检验				成品检验报告	退货//报废
			2	尺寸		符合产品检验规范中的重点尺寸要求		卡尺//投影机//二次元						
			3	对插		公母对插5次需顺畅,塑胶不可有破损现象		对应的母头						
			4	上板焊锡	CTQ	温度255±5℃ 塑胶无起泡、变形、镀层无明显变色、无空焊、虚焊;实验后试配OK		IR测试机						
			5	HSF测试	CTQ	依《HSF检验作业办法》判定		ROHS测试仪						
			6	包装/标识		载带封合力在30~70g范围内,不能有卡料及抛料现象,标签内容符合生产任务通知单要求,如客户有特殊要求按客户特殊要求执行,没有特殊要求的按我司包装方式包装		目视//拉力计						



控制计划

试产 ☒ 量产

产品名称		B09 系列公头			产品料号		BB0009PXXA			文件编号		CPT-CP-Q-023	
制定小组		组长/曾晓明 质量/涂小琴 研发/韦庆贡 冲压/燕士利 注塑/廖文理 组装/孟喜平								版本		A/0	
修订履历								修订履历					
版次	修订日期	修订内容					修订者		版次	修订日期	修订内容		修订者
A/0	2023. 10. 15	新制订					涂小琴						
零件过程编号	过程名程/操作描述	制造用之机器、工装、设备	特性			特殊特性分类	方法						反应计划
			编号	产品要求	制程参数		产品/过程规范/公差	评价/测量技术	取样		控制方法		
									容量	频率			
10	出货检验 (OQC)	相应检测设备, 工治具及目视检测	1	外观		产品不可有变形、划伤、压伤等不良现象，产品在载带中不可有放反、漏放等不良现象	目视/显微镜	依《成品检验规范》进行检验		出货检验报告		退货//报废	
			2	尺寸		符合产品检验规范中的重点尺寸要求	卡尺//投影机//二次元						
			3	对插		公母对插5次需顺畅，塑胶不可有破损现象	对应的母头						
			4	上板焊锡	CTQ	温度255±5℃ 塑胶无起泡、变形、镀层无明显变色、无空焊、虚焊；实验后试配OK	IR测试机						
			5	HSF测试	CTQ	依《HSF检验作业办法》判定	ROHS测试仪						
			6	包装/标识		载带封合力在30~100g范围内，不能有卡料及抛料现象，标签内容符合客户要求，如客户有特殊要求按客户特殊要求执行，没有特殊要求的按我司包装方式包装	目视//拉力计						

核准: 邱永信

审核: 曾晓明

制定: 涂小琴



元精技术有限公司
Component Precision Technology Co.,Ltd.
可靠性测试报告

Reliability Test Report

样品料号 Part No.	BB0009P06A/BB0009R06A			客户名称 Customer	/			报告编号 File No.	T20240620001							
样品名称 Sample Name	B09-06PIN 公母座			客户料号 Customer No.	/			测试环境 Environment	25±1 ℃ 65±5 RH(%)							
送样数量 Sample Q' ty.	100pcs			送检单位 Request Dept.	研发中心			测试时间 Test Duration	2024. 05. 18~2024. 06. 20							
测试设备 Test Equipment	请参照《测试设备明细》 Referring to the test equipment list															
测试标准 Test Method	参照EIA-364电子连接器测试程序及产品规格书 Referring to EIA-364 test procedure and product specifications															
测试项目 Test Description	测试组别及顺序 Test Group and Sequence															
	A组 Group A	B组 Group B	C组 Group C	D组 Group D	E组 Group E	F组 Group F	G组 Group G	H组 Group H	I组 Group I	J组 Group J	K组 Group K	M组 Group	N组 Group N	L组 Group L	O组 Group L	P组 Group L
产品形态 Conformation of Product	1	1,5	1,7	1,3	1, 3	1, 3	1,4	1,4	1,4	1,4	1,4	1,4	1,5	1, 3	1, 3	1, 3
尺寸测试 FAI	2															
接触阻抗 Low Level Contact Resistance		2	2,8				2,5	2,5	2,5	2,5	2,5	2,5	2,6			
绝缘阻抗 Insulation Resistance		3											3,7			
耐电压 Dielectric Withstanding Voltage		4														
插拔力 Mating and Unmating Force			3,6													
寿命测试 Durability			5													
X/Y推力测试 X/Y direction HSGstrength				2												
导向能力测试 Guiding test					2											
抗压力 Resist pressure						2										
恒温恒湿测试 Resistance to soldering heat							3									
冷热冲击测试 Temperature shock								3								
高温存储测试 Resistance to high storage temperature									3							
低温存储测试 resistance to low storage temperature										3						
震动测试 Vibration											3					
耐冲击测试 Shock resistance												3				
盐雾测试 Salt Spray													4			
焊接性测试 Solder ability														2		
手感指数 Insertion feel			4													
焊板保持力 SMT Retention force														4		
耐焊接 Resistance to soldering heat															2	
温升测试 Temperature rise test																2
样品数量 Sample size	5PCS	5PCS	5PCS	5PCS	5PCS	5PCS	5PCS	5PCS	5PCS	5PCS	5PCS	5PCS	5PCS	5PCS	5PCS	5PCS
测试结论 Conclusion	PASS															
备注 Note																
核准 Approved by	LEO			审核 Checked by		XIAOMING. ZENG			制定 Inspected by			ZHU. LU				



元精技术有限公司
Component Precision Technology Co.,Ltd.

测试记录 Test Record

测试项目 Test Item		外观检查 Conformation of Product								
测试标准 Test Method		参照EIA-364-18电子连接器测试程序及产品规格书 Refer to EIA-364-18 electronic connector test procedures and product specifications								
品名规格 product name	B09-06PIN 公 母座	料号 Part Number	BB0009P06A BB0009R06A	送测日期 Test date	2024.05.18	完成日期 target date	2024.05.20			
判定标准 Judgment Method		产品应该与产品图面一致，无物理损伤； Product shall be conforming to the requirements of applicable product drawing, No physical damage								
测试条件 Test Condition		产品应该与产品图面一致，无物理损伤； Product shall be conforming to the requirements of applicable product drawing, No physical damage								
测试设备 Test equipment		目视，显微镜 Visual, Microscope								
测试数据 Test Data	样品 Sample No.	判定 Judgment	样品 Sample No.	判定 Judgment	样品 Sample No.	判定 Judgment	样品 Sample No.	判定 Judgment	样品 Sample No.	判定 Judgment
	1	OK	21	OK	41	OK	61	OK	81	OK
	2	OK	22	OK	42	OK	62	OK	82	OK
	3	OK	23	OK	43	OK	63	OK	83	OK
	4	OK	24	OK	44	OK	64	OK	84	OK
	5	OK	25	OK	45	OK	65	OK	85	OK
	6	OK	26	OK	46	OK	66	OK	86	OK
	7	OK	27	OK	47	OK	67	OK	87	OK
	8	OK	28	OK	48	OK	68	OK	88	OK
	9	OK	29	OK	49	OK	69	OK	89	OK
	10	OK	30	OK	50	OK	70	OK	90	OK
	11	OK	31	OK	51	OK	71	OK	91	OK
	12	OK	32	OK	52	OK	72	OK	92	OK
	13	OK	33	OK	53	OK	73	OK	93	OK
	14	OK	34	OK	54	OK	74	OK	94	OK
	15	OK	35	OK	55	OK	75	OK	95	OK
	16	OK	36	OK	56	OK	76	OK	96	OK
	17	OK	37	OK	57	OK	77	OK	97	OK
	18	OK	38	OK	58	OK	78	OK	98	OK
	19	OK	39	OK	59	OK	79	OK	99	OK
20	OK	40	OK	60	OK	80	OK	100	OK	
测试结论 Conclusion		PASS								
备注 Note										
核准 Approved by		LEO		审核 Checked by		XIAOMING. ZENG		检测 Inspected by		ZHU. LU



元精技术有限公司
Component Precision Technology Co.,Ltd.

A组测试记录 Group A Test Record (FAI)

测试项目 Test Item				全尺寸测试 Full size test																	
测试标准 Test Method				参照EIA-364-18电子连接器测试程序及产品规格书 Refer to EIA-364-18 electronic connector test procedures and product specifications																	
品名规格 product name				B09-06PIN 公头				料号 P/N		BB0009P06A				送测日期 Test date		2024. 05. 18		完成日期 target date		2024. 05. 21	
判定标准 Judgment Method				符合规格书尺寸标注 According to the specification of dimensions																	
测试条件 Test Condition				N/A																	
测试设备 Test equipment				二次元影像仪 Binary optics projector																	
DRAWING SPECIFICATION				INSPECTION RESULTS												INSPECTION ANALYSIS					
				Sample Number					Deviation from Nominal					Mean	% Tolerance		Acc/Rej				
															UPPER	LOWER	HIGH	LOW			
项次	标准	+TOL	-TOL	1#	2#	3#	4#	5#	1#	2#	3#	4#	5#	Mean	UPPER	LOWER	HIGH	LOW			
1	2.350	0.200	0.200	2.356	2.352	2.351	2.354	2.355	0.006	0.002	0.001	0.004	0.005	2.354	3%	0%					
2	2.310	0.100	0.100	2.314	2.311	2.312	2.317	2.312	0.004	0.001	0.002	0.007	0.002	2.313	7%	0%					
3	0.700	0.080	0.080	0.705	0.703	0.707	0.707	0.708	0.005	0.003	0.007	0.007	0.008	0.706	10%	0%					
4	0.350	0.050	0.050	0.357	0.360	0.350	0.358	0.360	0.007	0.010	0.000	0.008	0.010	0.357	20%	0%					
5	1.460	0.100	0.100	1.462	1.462	1.462	1.460	1.462	0.002	0.002	0.002	0.000	0.002	1.462	2%	0%					
6	1.050	0.100	0.100	1.058	1.053	1.060	1.055	1.051	0.008	0.003	0.010	0.005	0.001	1.055	10%	0%					
7	0.240	0.030	0.030	0.250	0.244	0.250	0.247	0.249	0.010	0.004	0.010	0.007	0.009	0.248	33%	0%					
8	0.200	0.030	0.030	0.194	0.197	0.201	0.202	0.199	-0.006	-0.003	0.001	0.002	-0.001	0.199	7%	20%					
9	1.665	0.150	0.150	1.670	1.670	1.660	1.662	1.664	0.005	0.005	-0.005	-0.003	-0.001	1.665	3%	3%					
10	0.120	0.030	0.030	0.117	0.126	0.123	0.110	0.115	-0.003	0.006	0.003	-0.010	-0.005	0.118	20%	33%					
11	1.250	0.100	0.100	1.247	1.244	1.254	1.243	1.253	-0.003	-0.006	0.004	-0.007	0.003	1.248	4%	7%					
12	1.600	0.100	0.100	1.662	1.664	1.670	1.660	1.650	0.062	0.064	0.070	0.060	0.050	1.661	70%	0%					
13	0.475	0.100	0.100	0.480	0.476	0.483	0.473	0.481	0.005	0.001	0.008	-0.002	0.006	0.479	8%	2%					
14	0.600	0.100	0.100	0.594	0.590	0.593	0.592	0.598	-0.006	-0.010	-0.007	-0.008	-0.002	0.593	0%	10%					
15	0.080	0.000	0.080	0.007	0.022	0.021	0.006	0.018	-0.073	-0.058	-0.059	-0.074	-0.062	0.015		93%					
测试结论 Conclusion				PASS																	
备注 Note																					
核准				SUNY.ZENG				审核				XIANGPING.ZOU				制定 Inspected by		CUIXIN. ZHOU			

CPT

元精技术有限公司
Component Precision Technology Co.,Ltd.
B组测试记录 Group B Test Record

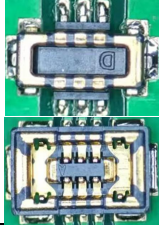
测试项目 Test Item		接触电阻，绝缘电阻，耐电压测试与外观检查 Contact resistance, insulation resistance, voltage resistance test and appearance inspection													
测试标准 Test Method		参照EIA-364-23, EIA-364-21、EIA-364-20, EIA-364-18电子连接器测试程序及规格书 Referring toEIA-364-23, EIA-364-21, EIA-364-20, EIA-364-18 Electronic connector test procedures and specifications													
品名规格 product name	B09-06PIN 公母座		料号 Part Number		BB0009P06A/BB0009R06A			送测日期 Test date		2024. 05. 18		完成日期 target date		2024. 05. 24	
判定标准 Judgment Method	接触电阻 信号端：90mΩ MAX, 电源端：30mΩ MAX Level Contact Resistance Signal end: 90mΩ MAX Source: 30mΩ MAX														
	绝缘阻抗500MΩ MinInsulation Resistant 500MΩ Min														
	没有闪光、火花和击穿现象，漏电流小于2毫安为合格。 No evidence of flashover or sparkover, breakdown or leakage current in excess of the maximum0. 5mA.														
测试条件 Test Condition	接触电阻 Contact Resistance		将焊板的BTB 公母端实配后通电测试，电流及电压规格：20mV, 100mA。测试公母端实配后 LLCR Make the BTB plugs and receptacles on board be fully mated ,then apply 20mV, 100mA current to the mated specimens												
	绝缘电阻 Insulation Resistance		施加100V DC到公端&母端相邻两根端子之间，通电时间：2分钟 Apply a voltage of 100 V DC between adjacent terminals. of the plugs and receptacles. Electrification Time: 2 min												
	耐电压 Dielectric Withstanding Voltage		施加100VAC到公端&母端相邻两根端子之间，通电时间：1分钟 Apply a voltage of 100 VAC between adjacent terminals. of the plugs and receptacles. Electrification Time: 1 min.												
测试设备 Test equipment	接触电阻测试仪，耐电压测试机，绝缘电阻测试机，显微镜 Contact with electric test tester, Voltage resistance test machine, Insulation resistance test machine, Microscope														
测试数据 Test Data	接触电阻 Level Contact Resistance Test														
	Pin No. Sample No.	1	2	3	4	5	6					G1	G2	判定 Judgment	
	1#	18. 4	19. 7	20. 8	20. 7	21. 8	21. 4					5. 8	5. 8	OK	
	2#	22. 0	21. 6	18. 3	18. 5	19. 7	18. 3					4. 9	5. 7	OK	
	3#	21. 6	19. 8	20. 7	20. 6	18. 2	18. 2					5. 0	6. 5	OK	
	4#	20. 7	19. 2	19. 1	20. 3	19. 3	19. 0					7. 0	5. 2	OK	
	5#	21. 2	20. 0	18. 3	20. 1	21. 3	21. 7					5. 8	4. 8	OK	
	绝缘测试 Insulation Resistant Test														
	Pin No. Sample No.	1~2 PIN	2~3 PIN	3~4 PIN	4~5 PIN	5~6 PIN	6~1 PIN				G1~1PIN	G1~6PIN	G2~3PIN	G2~4PIN	判定 Judgment
	1#	PASS	PASS	PASS	PASS	PASS	PASS				PASS	PASS	PASS	PASS	OK
	2#	PASS	PASS	PASS	PASS	PASS	PASS				PASS	PASS	PASS	PASS	OK
	3#	PASS	PASS	PASS	PASS	PASS	PASS				PASS	PASS	PASS	PASS	OK
	4#	PASS	PASS	PASS	PASS	PASS	PASS				PASS	PASS	PASS	PASS	OK
	5#	PASS	PASS	PASS	PASS	PASS	PASS				PASS	PASS	PASS	PASS	OK
	耐电压测试 Voltage resistance test														
	Pin No. Sample No.	1~2 PIN	2~3 PIN	3~4 PIN	4~5 PIN	5~6 PIN	6~1 PIN				G1~1PIN	G1~6PIN	G2~3PIN	G2~4PIN	判定 Judgment
	1#	PASS	PASS	PASS	PASS	PASS	PASS				PASS	PASS	PASS	PASS	OK
	2#	PASS	PASS	PASS	PASS	PASS	PASS				PASS	PASS	PASS	PASS	OK
	3#	PASS	PASS	PASS	PASS	PASS	PASS				PASS	PASS	PASS	PASS	OK
	4#	PASS	PASS	PASS	PASS	PASS	PASS				PASS	PASS	PASS	PASS	OK
	5#	PASS	PASS	PASS	PASS	PASS	PASS				PASS	PASS	PASS	PASS	OK
	测试结论 Conclusion	PASS													
	备注 Note														
核准 Approved by	LEO		审核 Checked by		XIAOMING. ZENG			检测 Inspected by		ZHU. LU					

FORM NO:CPT-FM-Q-055 (A/0)



元精技术有限公司
Component Precision Technology Co.,Ltd.

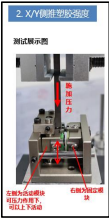
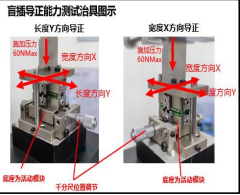
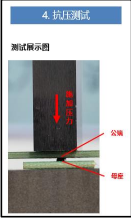
C组测试记录 Group C Test Record

测试项目 Test Item				插拔力测试, 手感指数, 接触电阻测试和外观检查 Mating and Unmating Force Test & Durability Test& Contact Resistance Test &Conformation of Product																											
测试标准 Test Method				参照 EIA-364-13、EIA-364-009、EIA-364-023、EIA-364-18电子连接器测试程序及规格书 Referring to EIA-364-13 & EIA-364-09&EIA-364-023& EIA-364-18 Electronic connector test procedures and specifications																											
品名规格 product		B09-06PIN 公母座		料号 Part Number		BB0009P06A/BB0009R06A		送测日期 Test date		2024. 05. 18		完成日期 target date		2024. 05. 26																	
判定标准 Judgment Method		初始插入力 nitial Mating Force				40N MAX				耐久插拔后插入力 Final Mating Force after Test				40N MAX																	
		初始拔出力 Initial Umating Force				4N MIN				耐久插拔后拔出力 Final Umating Force after Test				4N MIN																	
		手感指数 Insertion feel				手感率≥60% Insertion feel index≥60%																									
		接触端接触阻抗 C.R. of Signal end				90 mΩ Max.				测试后接触端接触阻抗 Final C.R. of Signal end				90 mΩ Max.																	
		接地片接触阻抗 C.R. of Ground strip				30 mΩ Max.				测试后接地片接触阻抗 Final C.R. of Ground strip				30mΩ Max.																	
测试条件 Test Condition		对插深度 mmDepth of Mating				测试次数 Cycles		循环速率 Rate of Cycling				接点测试电压 Test Voltages for Contact		接点测试电流 Test Current for Contact																	
		0.25mm				30 Cycles		12.5mm/min				20 mVolts Max.		100 mA																	
		手感指数 Insertion feel				设置荷重仪参数, 选择去程-回程, 速度设置在12.5mm/min; 将测试压头对准BTB, 用推力机施压, 记录行程-作动力曲线。手感率= (F2-F1) / F2; Set the parameters of the load meter, select the trip-return trip and set the speed at 12.5mm/min; align the test head at BTB, press the thrust machine, and record the travel-power curve. Touch feel rate = (F2-F1) / F2																									
测试设备 Test equipment		自动插拔力测试机, 接触电阻测试仪, 显微镜 Automatic plug and pull force test machine, Contact the resistance tester, Microscope																													
外观		Sample No.		测试结果 Test result										图示 (测试后)		判定 Judgment															
		1 #		产品无损坏, 变形 Product is not damaged and deformed												OK															
		2 #		产品无损坏, 变形 Product is not damaged and deformed												OK															
		3 #		产品无损坏, 变形 Product is not damaged and deformed												OK															
		4 #		产品无损坏, 变形 Product is not damaged and deformed												OK															
		5 #		产品无损坏, 变形 Product is not damaged and deformed												OK															
插拔力		Project		插入力 Mating Force (unit: N.)						拔出力 Unmating Force (unit:N.)						手感指数 Insertion feel		判定 Judgment													
		Sample No.		初始		寿命30次后		初始		寿命30次后																					
		1 #		4. 4		4. 2		3.73		3. 72		84.37%		OK																	
		2 #		4. 5		4. 15		4.02		3. 7		71.05%		OK																	
		3 #		4. 3		4. 12		3.85		3. 46		85.45%		OK																	
		4 #		4. 2		4. 02		3.8		3. 44		97.70%		OK																	
端子接触电阻 mΩ		Pin No.		1		2		3		4		5		6								G1		G2		判定 Judgment					
		Sample No.																													
		1 #		Initial		20. 5		20. 4		19. 9		19. 5		19. 7		21. 7								6. 6		4. 4		OK			
				Final		32. 8		28. 7		29. 3		26. 8		27. 7		31. 9								8. 7		7. 6					
				ΔR		12. 3		8. 3		9. 4		7. 3		8. 0		10. 2								2. 1		3. 2					
		2 #		Initial		18. 6		18. 9		18. 3		20. 2		20. 9		19. 1								6. 9		6. 5		OK			
				Final		23. 6		28. 1		25. 4		28. 4		23. 9		31. 1								9. 1		9. 7					
				ΔR		5. 0		9. 2		7. 1		8. 2		3. 0		12. 0								2. 3		3. 2					
		3 #		Initial		18. 4		19. 0		20. 3		21. 6		19. 1		18. 7								4. 5		6. 2		OK			
				Final		27. 6		30. 0		32. 8		29. 3		29. 4		25. 3								9. 0		8. 9					
				ΔR		9. 3		11. 0		12. 5		7. 7		10. 3		6. 7								4. 6		2. 7					
		4 #		Initial		20. 5		21. 6		19. 9		21. 7		20. 6		19. 9								6. 1		4. 6		OK			
				Final		31. 9		32. 6		28. 5		28. 5		25. 8		29. 2								8. 1		7. 0					
				ΔR		11. 4		11. 0		8. 6		6. 8		5. 2		9. 3								2. 0		2. 4					
		5 #		Initial		18. 1		19. 4		19. 4		20. 4		20. 3		21. 1								6. 9		5. 6		OK			
				Final		29. 8		24. 3		30. 1		29. 6		22. 1		27. 4								8. 3		7. 6					
				ΔR		11. 8		4. 9		10. 6		9. 2		1. 9		6. 4								1. 4		2. 0					
		测试结论 Conclusion		PASS																											
备注 Note																															
核准 Approved by		LEO						审核 Checked by						XIAOMING. ZENG						检测 Inspected by						ZHU. LU					



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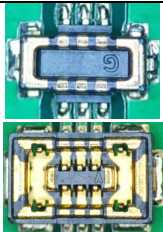
D / E / F 组测试记录 Group D / E / F Test Record

测试项目 Test Item		X/Y推力测试，导向能力测试，抗压力和外观检查 X/Y direction HSGstrength &Guiding test&Resist pressure and Conformation of Product							
测试标准 Test Method		参照EIA-364-18电子连接器测试程序及规格书 Referring to EIA-364-18 Electronic connector test procedures and specifications							
品名规格 product name	B09-06PIN 公母座	料号 Part Number	BB0009P06A/BB0009R06A		送测日期 Test date	2024.05.18	完成日期 target date	2024.05.30	
判定标准 Judgment Method	X/Y推力测试 X/Y direction HSGstrength	HSG X/Y方向抗剪切破坏强度不小于35N X/Y direction HSG strength need ≥35N							
	导向能力测试 Guiding test	公母无扣合破损及碎屑 No broken and scrap on Plug&Rec. side							
	抗压力 Resist pressure	端子不能出现形变 The terminal cannot be deformed							
	测试条件 Test Condition	X/Y推力测试 X/Y direction HSGstrength BTB公母头配合后，沿X/Y方向剪切错动，直至破坏，记录HSG抗破坏曲线及最大力值 BTB on PCB and mating status, make plug and Rec. shear slip by X/Y direction until HSG broken, record curves and get the Max value dates of shear							
	导向能力测试 Guiding test	公母头X/Y方向错位0.2mm扣合测试（一端可浮动），扣合力上限设定≥60N; Make mating test by BTB Plug&Rec. offset 0.2mm in X/Y direction, set upper limit mating force ≥60N							
	抗压力 Resist pressure	垂直于产品平面，施加30N力量，保持100秒 Perpendicular to the product plane, apply 30N force and hold for 100 seconds							
测试设备 Test equipment		自动插拔力测试机，接触电阻测试仪，显微镜 Automatic plug and pull force test machine, Contact the resistance tester, Microscope							
外观	Sample No.	测试结果 Test result						判定 Judgment	
	1 #	产品无损坏，变形 Product is not damaged and deformed						OK	
	2 #	产品无损坏，变形 Product is not damaged and deformed						OK	
	3 #	产品无损坏，变形 Product is not damaged and deformed						OK	
	4 #	产品无损坏，变形 Product is not damaged and deformed						OK	
	5 #	产品无损坏，变形 Product is not damaged and deformed						OK	
	Sample No.	测试结果 Test result						判定 Judgment	
		X/Y推力测试 X/Y direction HSGstrength	图示 	导向能力测试 Guiding test	图示 	抗压力 Resist pressure	图示 		
	1 #	35.4		PASS		PASS		OK	
	2 #	36.1		PASS		PASS		OK	
	3 #	35.5		PASS		PASS		OK	
	4 #	35.2		PASS		PASS		OK	
5 #	36.1		PASS		PASS		OK		
测试结论 Conclusion		PASS							
备注 Note									
核准 Approved by		LEO		审核 Checked by		XIAOMING. ZENG		检测 Inspected by	ZHU. LU



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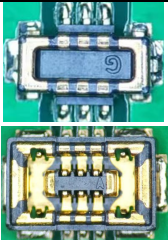
G组测试记录 Group G Test Record

测试项目 Test Item		恒温恒湿测试, 接触电阻测试及外观检查 Constant temperature and humidity test, contact resistance test and appearance inspection												
测试标准 Test Method		参照 EIA-364-23、EIA-364-31、EIA-364-18电子连接器测试程序及产品规格书 Referring to EIA-364-23、EIA-364-31、EIA-364-18 Electronic connector test procedures and specifications												
品名规格 product name	B09-06PIN 公母座	料号 Part Number	BB0009P06A/BB0009R06A				送测日期 Test date	2024.05.18		完成日期 target date	2024.05.31			
判定标准 Judgment Method	1. 不能出现明显的外观损坏; 2. 测试后接触电阻变化值均≤20mΩ (接触电阻 信号端: 90mΩ MAX, 电源端: 30mΩ MAX) 1. No obvious appearance damage; 2. The contact resistance changes are 20m Ω (Level Contact Resistance Signal end: 90mΩ MAX Source: 30mΩ MAX)													
测试条件 Test Condition	将测试样本公母端分离放在一个恒温恒湿的空间内暴露96小时, 此空间温度: 25℃~65℃, 相对湿度: 90~95%。测试完成后将样本擦干放置在周围环境中1小时; The specimens shall be separated and left in the chamber of 25℃~65℃temperature and 90~95% humidity for 96hrs. After test drying in ambient condition for 1 hours													
测试设备 Test equipment sample	恒温恒湿试验箱, 接触电阻测试仪, 显微镜 Constant temperature and humidity test box, Contact resistance tester, Microscope													
外观 Conformation	Sample No.	测试结果 Test result							图示 (测试中)		图示 (测试后)		判定 Judgment	
	1 #	产品无损坏, 变形; Product is not damaged and deformed;											OK	
	2 #	产品无损坏, 变形; Product is not damaged and deformed;											OK	
	3 #	产品无损坏, 变形; Product is not damaged and deformed;											OK	
	4 #	产品无损坏, 变形; Product is not damaged and deformed;											OK	
	5 #	产品无损坏, 变形; Product is not damaged and deformed;											OK	
端子 接触 阻抗 C.R	Pin No. Sample No.	1	2	3	4	5	6				G1	G2	判定 Judgment	
	1 #	Initial	18.7	20.8	18.5	20.0	21.3	21.7				4.4	5.3	OK
		Final	31.6	28.4	23.1	22.9	23.6	32.0				7.3	10.0	
		ΔR	12.9	7.6	4.6	2.9	2.3	10.3				2.9	4.6	
	2 #	Initial	19.7	19.5	19.5	20.7	18.6	20.6				6.6	6.5	OK
		Final	22.9	24.9	32.6	32.3	27.2	29.6				7.6	8.2	
		ΔR	3.1	5.4	13.0	11.6	8.5	9.0				1.0	1.7	
	3 #	Initial	21.7	21.0	21.1	20.5	21.6	21.7				4.9	6.7	OK
		Final	32.8	30.4	25.5	26.8	29.2	32.9				9.1	9.1	
		ΔR	11.0	9.3	4.4	6.3	7.6	11.1				4.2	2.3	
	4 #	Initial	19.7	19.0	20.9	21.1	18.8	19.2				6.0	4.9	OK
		Final	30.9	29.3	23.5	31.4	30.2	23.3				8.6	9.2	
		ΔR	11.2	10.3	2.5	10.3	11.4	4.1				2.6	4.3	
	5 #	Initial	21.8	21.2	20.3	18.9	18.2	21.0				5.2	5.7	OK
		Final	22.9	29.1	27.2	30.1	33.0	32.0				7.3	9.5	
ΔR		1.1	7.9	6.9	11.3	14.8	11.0				2.1	3.8		
测试结论 Conclusion	PASS													
备注 Note														
核准 Approved by	LEO			审核 Checked by			XIAOMING. ZENG			检测 Inspected by			ZHU. LU	



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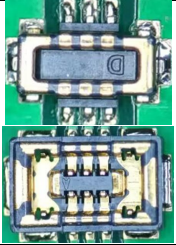
H组测试记录 Group H Test Record

测试项目 Test Item		冷热冲击测试, 接触电阻测试及外观检查 Temperature cycling test& Contact Resistance Test &Conformation of Product														
测试标准 Test Method		参照 EIA-364-23、EIA-364-32、EIA-364-18电子连接器测试程序及产品规格书 Referring to EIA-364-23 & EIA-364-32& EIA-364-18 Electronic connector test procedures and specifications														
品名规格 product name	B09-06PIN 公母座		料号 Part Number		BB0009P06A/BB0009R06A			送测日期 Test date		2024.05.18		完成日期 target date		2024.06.03		
判定标准 Judgment Method		1. 不能出现明显的外观损坏; 2. 测试后接触电阻变化值均≤20mΩ (接触电阻 信号端: 90mΩ MAX, 电源端: 30mΩ MAX) 1. No obvious appearance damage; 2. The contact resistance changes are 20m Ω (Level Contact Resistance Signal end: 90mΩ MAX Source: 30mΩ MAX)														
测试条件 Test Condition		在-55±3℃环境中放30分钟后排风5分钟, 再放置于85±3℃环境中放30分钟后再排风5分钟, 进行5个循环后放置常温中30分钟; At -55±3℃ for 30 minutes, then for 5 minutes, then at 85±3℃ for 30 minutes and then for 5 minutes, then for 5 cycles and then for 30 minutes at room temperature.														
测试设备 Test equipment		冷热冲击试验箱, 接触电阻测试仪, 显微镜 Cold and hot shock test box, Contact resistance tester, Microscope														
外观 Confo rmati on	Sample No.		测试结果 Test result										图示 (测试后)		判定 Judgment	
	1 #		产品无损坏, 变形; Product is not damaged and deformed;												OK	
	2 #		产品无损坏, 变形; Product is not damaged and deformed;												OK	
	3 #		产品无损坏, 变形; Product is not damaged and deformed;												OK	
	4 #		产品无损坏, 变形; Product is not damaged and deformed;												OK	
	5 #		产品无损坏, 变形; Product is not damaged and deformed;												OK	
端子 接触 阻抗 C. R	Pin No. Sample No.		1	2	3	4	5	6					G1	G2	判定 Judgment	
	1 #	Initial	20.4	18.4	18.9	21.3	20.4	18.3					4.1	4.8	OK	
		Final	27.8	28.7	27.3	31.3	32.0	29.4					9.3	8.6		
		△R	7.4	10.2	8.5	9.9	11.5	11.0					5.2	3.8		
	2 #	Initial	19.4	20.7	21.3	19.2	19.4	20.1					5.1	4.7	OK	
		Final	25.0	22.8	32.4	25.4	31.1	32.0					9.0	10.0		
		△R	5.6	2.1	11.0	6.2	11.7	11.8					3.9	5.2		
	3 #	Initial	20.8	18.0	20.9	18.7	19.7	21.8					7.0	6.4	OK	
		Final	26.1	31.9	30.1	32.4	24.1	22.2					9.1	7.5		
		△R	5.3	13.8	9.2	13.7	4.4	0.4					2.2	1.1		
	4 #	Initial	18.7	19.1	21.0	20.9	21.4	20.3					5.0	5.3	OK	
		Final	22.1	26.2	23.6	31.1	24.1	24.1					7.4	7.5		
		△R	3.3	7.1	2.6	10.2	2.7	3.9					2.4	2.2		
	5 #	Initial	21.7	19.4	20.5	21.0	18.6	18.9					4.6	4.3	OK	
		Final	29.3	23.4	26.3	27.4	30.2	28.0					7.5	8.3		
△R		7.6	4.0	5.9	6.4	11.7	9.1					2.9	4.0			
测试结论 Conclusion		PASS														
备注 Note																
核准 Approved by		LEO			审核 Checked by			XIAOMING. ZENG			检测 Inspected by			ZHU. LU		



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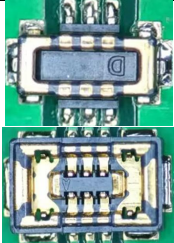
I 组测试记录 Group I Test Record

测试项目 Test Item			高温存储测试,接触电阻测试及外观检查 Resistance to high storage temperature & Contact Resistance Test &Conformation of Product													
测试标准 Test Method			参照 EIA-364-23、EIA-364-31、EIA-364-18电子连接器测试程序及产品规格书 Referring to EIA-364-23、EIA-364-31、EIA-364-18 Electronic connector test procedures and specifications													
品名规格 product name	B09-06PIN 公母座		料号 Part Number		BB0009P06A/BB0009R06A			送测日期 Test date		2024.05.18		完成日期 target date		2024.06.07		
判定标准 Judgment Method		1. 不能出现明显的外观损坏；2. 测试后接触电阻变化值均 ≤20mΩ（接触电阻 信号端：90mΩ MAX，电源端：30mΩ MAX） 1. No obvious appearance damage; 2. The contact resistance changes are 20mΩ（Level Contact Resistance Signal end: 90mΩ MAX Source: 30mΩ MAX）														
测试条件 Test Condition		将测试样本分离放置在一个 +110℃+/-3℃的空间里暴露96小时，然后在标准环境下放置1-2h. Make the samples be separated and Leave them in the chamber of temperature +110℃+/-3℃ for 96hr, then it shall be subjected to standard atmospheric condition for 1~2h														
测试设备 Test equipment		恒温恒湿试验箱，接触电阻测试仪，显微镜 Constant temperature and humidity test box, Contact resistance tester, Microscope														
外观 Conformation	Sample No.	测试结果 Test result							图示（测试中）		图示（测试后）		判定 Judgment			
	1 #	产品无损坏，变形； Product is not damaged and deformed;											OK			
	2 #	产品无损坏，变形； Product is not damaged and deformed;											OK			
	3 #	产品无损坏，变形； Product is not damaged and deformed;											OK			
	4 #	产品无损坏，变形； Product is not damaged and deformed;											OK			
	5 #	产品无损坏，变形； Product is not damaged and deformed;											OK			
端子 接触 阻抗 C.R	Pin No. Sample No.	1	2	3	4	5	6				G1	G2	判定 Judgment			
	1 #	Initial	18.4	20.4	21.6	21.0	19.8	22.0				4.8	6.0	OK		
		Final	30.3	32.1	24.6	24.6	25.2	31.1				9.8	7.9			
		\Delta R	11.9	11.7	3.0	3.6	5.4	9.1				5.0	1.9			
	2 #	Initial	19.5	18.4	19.7	21.6	19.5	21.5				4.8	5.1	OK		
		Final	28.8	22.8	24.0	25.5	32.2	22.0				7.2	8.8			
		\Delta R	9.3	4.4	4.3	3.8	12.7	0.5				2.4	3.7			
	3 #	Initial	18.4	18.4	20.2	21.9	20.3	19.5				6.9	4.5	OK		
		Final	29.2	31.2	31.6	32.2	25.5	29.6				7.8	7.5			
		\Delta R	10.8	12.8	11.4	10.3	5.1	10.1				0.9	2.9			
	4 #	Initial	20.6	20.4	20.9	22.0	20.9	19.7				4.9	4.6	OK		
		Final	24.2	31.5	30.8	28.2	26.4	24.2				9.0	8.4			
		\Delta R	3.6	11.1	9.9	6.2	5.6	4.6				4.1	3.8			
	5 #	Initial	21.2	18.4	19.0	20.3	19.5	21.2				5.2	6.3	OK		
		Final	26.6	32.9	28.5	27.4	26.1	29.4				9.8	9.5			
		\Delta R	5.5	14.5	9.5	7.1	6.6	8.2				4.7	3.1			
	测试结论 Conclusion		PASS													
	备注 Note															
	核准 Approved by		LEO			审核 Checked by			XIAOMING. ZENG			检测 Inspected by		ZHU. LU		



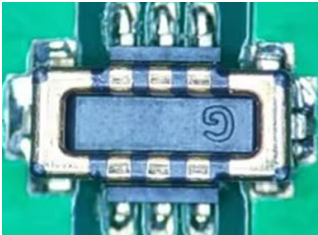
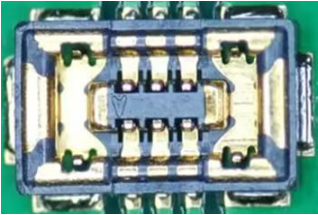
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J 组测试记录 Group J Test Record

测试项目 Test Item		低温存储测试, 接触电阻测试及外观检查 Temperature cycling test& Contact Resistance Test &Conformation of Product													
测试标准 Test Method		参照 EIA-364-23、EIA-364-32、EIA-364-18电子连接器测试程序及产品规格书 Referring to EIA-364-23 & EIA-364-32& EIA-364-18 Electronic connector test procedures and specifications													
品名规格 product name	B09-06PIN 公母座	料号 Part Number	BB0009P06A/BB0009R06A				送测日期 Test date	2024.05.18		完成日期 target date	2024.06.10				
判定标准 Judgment Method	1. 不能出现明显的外观损坏；2. 测试后接触电阻变化值均 ≤20mΩ（接触电阻 信号端：90mΩ MAX，电源端：30mΩ MAX ） 1. No obvious appearance damage; 2. The contact resistance changes are 20m Ω（Level Contact Resistance Signal end: 90mΩ MAX Source: 30mΩ MAX ）														
测试条件 Test Condition	将测试样本分离放置在一个 -40℃+/-3℃的空间里暴露96小时，然后在标准环境下放置1~2h. Make the samples be separated and Leave them in the chamber of temperature -40℃+/-3℃ for 96hr, then it shall be subjected to standard atmospheric condition for 1~2h														
测试设备 Test equipment	恒温恒湿试验箱，接触电阻测试仪，显微镜 Constant temperature and humidity test box, Contact resistance tester, Microscope														
外观 Confo rmation	Sample No.	测试结果 Test result							图示（测试中）		图示（测试后）		判定 Judgment		
	1 #	产品无损坏，变形； Product is not damaged and deformed;											OK		
	2 #	产品无损坏，变形； Product is not damaged and deformed;											OK		
	3 #	产品无损坏，变形； Product is not damaged and deformed;											OK		
	4 #	产品无损坏，变形； Product is not damaged and deformed;											OK		
	5 #	产品无损坏，变形； Product is not damaged and deformed;											OK		
端子 接触 阻抗 C.R	Pin No. Sample No.	1	2	3	4	5	6					G1	G2	判定 Judgment	
	1 #	Initial	18.9	18.0	20.0	21.6	19.0	21.1					6.7	5.5	OK
		Final	30.4	31.7	27.6	32.9	27.1	32.4					9.2	9.8	
		ΔR	11.4	13.7	7.7	11.3	8.1	11.3					2.5	4.3	
	2 #	Initial	19.7	20.9	20.0	20.4	20.0	19.9					4.6	4.8	OK
		Final	26.3	27.7	31.8	28.6	24.3	27.7					8.7	9.1	
		ΔR	6.7	6.9	11.9	8.2	4.3	7.8					4.1	4.3	
	3 #	Initial	18.5	18.6	19.4	20.8	20.1	21.9					6.8	4.2	OK
		Final	27.7	31.8	28.1	32.4	29.5	26.1					9.3	8.2	
		ΔR	9.2	13.1	8.7	11.6	9.5	4.2					2.4	3.9	
	4 #	Initial	20.6	18.9	20.9	21.8	18.8	20.0					4.9	5.4	OK
		Final	31.2	22.4	29.6	29.7	32.4	24.3					9.8	9.8	
		ΔR	10.7	3.6	8.7	7.8	13.7	4.3					4.9	4.4	
	5 #	Initial	18.9	21.2	21.4	18.4	18.2	18.1					6.0	6.2	OK
		Final	24.4	23.1	30.7	27.2	29.2	24.4					7.2	8.4	
		ΔR	5.5	1.9	9.3	8.8	11.0	6.3					1.2	2.3	
	测试结论 Conclusion	PASS													
	备注 Note														
	核准 Approved by	LEO		审核 Checked by		XIAOMING. ZENG				检测 Inspected by		ZHU. LU			

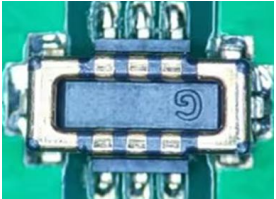
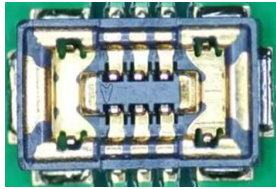


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K组测试记录 Group K Test Record

测试项目 Test Item				机械震动测试, 接触电阻测试及外观检查 Mechanical vibration test, Contact resistance test and Conformation of Product												
测试标准 Test Method				参照 EIA-364-27、EIA-364-23、EIA-364-18电子连接器测试程序及产品规格书 Referring to EIA-364-27、EIA-364-23、EIA-364-18 Electronic connector test procedures and specifications												
品名规格 Product name	B09-06PIN 公母座		料号 Part Number	BB0009P06A/BB0009R06A		送测日期 Test date		2024. 05. 18			完成日期 target date	2024. 06. 13				
判定标准 Judgment Method		外观 Surface						产品无明显损坏, 变形 Product no obvious damage, deformation								
		瞬断 Electrical discontinuity						无1μs 以上的瞬断 No electrical discontinuity of 1μs or more.								
		接触端接触阻抗 C.R. of Signal end			90 mΩ Max.			测试后接触端接触阻抗 Final C.R. of Signal end			90 mΩ Max.					
		接地片接触阻抗 C.R. of Ground strip			30 mΩ Max.			测试后接地片接触阻抗 Final C.R. of Ground strip			30 mΩ Max.					
测试条件 Test Condition		频率: 10至55hz, 半振幅为0.75mm, 3个轴方向各10个周期, 合计30周期, 持续5分钟/周期; Frequency : 10 to 55Hz ; half amplitude of 0.75mm, 10 cycles in each of 3 axis directions for 5 minutes/cycle														
测试设备 Test equipment		机械震动测试机, 接触电阻测试仪, 显微镜 Mechanical vibration testing machine, Contact resistance tester, Microscope														
外观 Confor mation	Sample No.		测试结果 Test result								图示 (测试后)		判定 Judgement			
	1 #		产品无损坏, 变形 Product is not damaged and deformed										OK			
	2 #		产品无损坏, 变形 Product is not damaged and deformed										OK			
	3 #		产品无损坏, 变形 Product is not damaged and deformed										OK			
	4 #		产品无损坏, 变形 Product is not damaged and deformed										OK			
	5 #		产品无损坏, 变形 Product is not damaged and deformed										OK			
瞬断 Electr ical discon tinuit y	Sample No.		测试结果 Test result										判定 Judgment			
	1 #		无1μs 以上的瞬断 No electrical discontinuity of 1μs or more.										OK			
	2 #		无1μs 以上的瞬断 No electrical discontinuity of 2μs or more.										OK			
	3 #		无1μs 以上的瞬断 No electrical discontinuity of 3μs or more.										OK			
	4 #		无1μs 以上的瞬断 No electrical discontinuity of 4μs or more.										OK			
	5 #		无1μs 以上的瞬断 No electrical discontinuity of 5μs or more.								OK					
端子接 触阻抗 C. R	Pin No.		1	2	3	4	5	6					G1	G2	判定 Judgment	
	Sample No.															
	1 #	Initial	20.7	19.0	19.2	21.7	19.9	19.8					5.7	5.5		OK
		Final	26.5	26.1	28.5	26.2	23.5	32.6					8.9	7.3		
		ΔR	5.7	7.2	9.3	4.5	3.6	12.8					3.2	1.7		
	2 #	Initial	22.0	21.5	19.6	20.5	20.7	19.0					6.5	7.0		OK
		Final	31.9	29.0	27.6	29.0	23.4	23.3					7.0	9.6		
		ΔR	9.9	7.5	8.0	8.5	2.7	4.3					0.6	2.7		
	3 #	Initial	19.4	18.2	19.6	21.5	19.1	21.3					4.8	5.7		OK
		Final	24.4	30.0	32.9	24.2	32.6	22.5					8.3	9.5		
		ΔR	4.9	11.8	13.3	2.7	13.4	1.1					3.5	3.7		
	4 #	Initial	19.6	19.3	21.7	18.7	18.1	21.1					4.8	5.8		OK
		Final	32.2	26.7	25.6	28.0	24.1	25.9					7.9	9.3		
		ΔR	12.7	7.4	3.9	9.4	6.0	4.8					3.1	3.5		
	5 #	Initial	19.8	18.5	18.9	18.2	20.1	20.8					6.0	6.2		OK
		Final	32.6	26.3	29.6	29.6	29.9	26.5					8.7	7.5		
		ΔR	12.8	7.8	10.8	11.4	9.8	5.7					2.7	1.4		
测试结论 Conclusion		PASS														
备注 Note																
核准 Approved by		LEO			审核 Checked by			XIAOMING. ZENG			检测 Inspected by			ZHU. LU		



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Component Precision Technology Co.,Ltd.
M组测试记录 Group M Test Record

测试项目 Test Item				机械冲击测试, 接触电阻测试及外观检查 Mechanical impact test, contact resistance test and Conformation of Product													
测试标准 Test Method				参照 EIA-364-42、EIA-364-23、EIA-364-18 电子连接器测试程序及产品规格书 Referring to EIA-364-42、EIA-364-23、EIA-364-18 Electronic connector test procedures and specifications													
品名规格 product name	B09-06PIN 公母座		料号 Part Number	BB0009P06A/BB0009R06A				送测日期 Test date	2024.05.18			完成日期 target date	2024.06.15				
判定标准 Judgment Method		外观 Surface								产品无明显损坏, 变形 Product no obvious damage, deformation							
		瞬断 Electrical discontinuity								无1μs 以上的瞬断 No electrical discontinuity of 1μs or more.							
		接触端接触阻抗 C.R. of Signal end				90 mΩ Max.				测试后接触端接触阻抗 Final C.R. of Signal end				90 mΩ Max.			
		接地片接触阻抗 C.R. of Ground strip				30 mΩ Max.				测试后接地片接触阻抗 Final C.R. of Ground strip				30 mΩ Max.			
测试条件 Test Condition		加速度: 490m/ s2, 持续时间: 11ms, 3轴半正弦波, 双向各循环3次; Acceleration : 490m/s2, duration : 11ms, 3-axis half- sine wave in both directions, 3 cycles for each ,															
测试设备 Test equipment		机械冲击测试仪, 接触电阻测试仪, 显微镜 Mechanical impact test machine, Contact resistance tester, Microscope															
外观 Conformation	Sample No.	测试结果 Test result												图示 (测试后)		判定 Judgment	
	1 #	产品无损坏, 变形 Product is not damaged and deformed													OK		
	2 #	产品无损坏, 变形 Product is not damaged and deformed													OK		
	3 #	产品无损坏, 变形 Product is not damaged and deformed													OK		
	4 #	产品无损坏, 变形 Product is not damaged and deformed													OK		
	5 #	产品无损坏, 变形 Product is not damaged and deformed													OK		
瞬断 Electrical discontinuity	Sample No.	测试结果 Test result													判定 Judgment		
	1 #	无1μs 以上的瞬断 No electrical discontinuity of 1μs or more.													OK		
	2 #	无1μs 以上的瞬断 No electrical discontinuity of 2μs or more.													OK		
	3 #	无1μs 以上的瞬断 No electrical discontinuity of 3μs or more.													OK		
	4 #	无1μs 以上的瞬断 No electrical discontinuity of 4μs or more.													OK		
	5 #	无1μs 以上的瞬断 No electrical discontinuity of 5μs or more.													OK		
端子接触阻抗 C.R	Pin No.		1	2	3	4	5	6						G1	G2	判定 Judgment	
	Sample No.																
	1 #	Initial	21.7	22.0	19.1	18.5	20.1	19.1						5.5	6.6	OK	
		Final	29.7	26.7	23.3	24.5	30.6	32.6						9.9	7.7		
		\ΔR	8.0	4.8	4.2	6.0	10.4	13.5						4.5	1.1		
	2 #	Initial	21.7	20.2	21.6	18.0	18.9	21.4						6.9	4.2	OK	
		Final	29.3	30.2	27.9	23.3	23.2	26.1						9.1	9.1		
		\ΔR	7.6	10.1	6.3	5.3	4.2	4.7						2.3	5.0		
	3 #	Initial	20.3	20.1	20.3	20.3	20.5	20.3						5.8	6.1	OK	
		Final	29.9	22.4	22.8	30.7	28.8	24.7						7.2	8.5		
		\ΔR	9.6	2.2	2.5	10.4	8.3	4.4						1.3	2.4		
	4 #	Initial	19.9	20.9	18.4	21.2	18.2	20.0						6.2	6.7	OK	
		Final	24.5	23.6	30.4	23.3	22.3	24.2						7.7	9.0		
		\ΔR	4.6	2.6	12.0	2.1	4.1	4.2						1.4	2.4		
	5 #	Initial	20.8	20.0		20.7	19.7	20.9						4.6	5.6	OK	
		Final	30.7	22.6	22.9	32.7	26.4	31.0						8.2	8.8		
\ΔR		10.0	2.7	4.1	12.0	6.7	10.2						3.6	3.2			
测试结论 Conclusion		PASS															
备注 Note																	
核准 Approved by		LEO			审核 Checked by			XIAOMING. ZENG			检测 Inspected by			ZHU, LU			



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N组测试记录 Group N Test Record

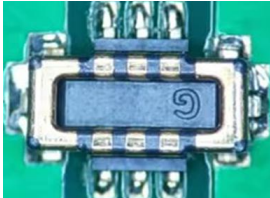
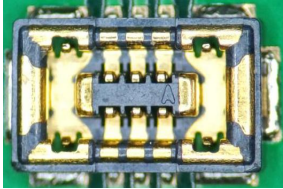
测试项目 Test Item		盐雾测试, 接触阻抗测试, 绝缘测试及外观检查 Salt Spray Test & Contact Resistance Test & Voltage resistance test&Conformation of Product															
测试标准 Test Method		参照 EIA-364-23、EIA-364-20、EIA-364-26、EIA-364-18电子连接器测试程序及产品规格书 Referring to EIA-364-23& EIA-364-20 & EIA-364-26 & EIA-364-18 Electronic connector test procedures and specifications															
品名规格 product name	B09-06PIN 公母座	料号 Part Number		BB0009P06A/BB0009R06A				送测日期 Test date		2024.05.18		完成日期 target date		2024.06.18			
判定标准 Judgment Method	外观 Surface				镀层无氧化, 发黑, 腐蚀点等现象 No oxidation, blackening, corrosion point, etc.												
	接触端接触阻抗 C.R. of Signal end				90 mΩ Max.				测试后接触端接触阻抗 Final C.R. of Signal end				90 mΩ Max.				
	接地片接触阻抗 C.R. of Ground strip				30 mΩ Max.				测试后接地片接触阻抗 Final C.R. of Ground strip				30 mΩ Max.				
测试条件 Test Condition	盐雾浓度 NaCl Concentration				饱和桶温度 Temp. of Saturator Tower				喷雾压力 Compressed Air Pressure				盐雾收集量 Volume of Collected Solution				
	5% ±1%				47 ±1 ℃				1 ±0.01 Kg/cm2				1.0~2.0 ml/h/80cm2				
	盐水PH值 Solution PH Value				试验仓温度 Temp. of Chamber				试验后清洗水温度 Temp. of Cleaning Water				驻留(试验)时间 Test Duration				
	6.5~7.2				35 ±1 ℃				< 35 ℃				48 hours				
测试设备 Test equipment sample		盐雾试验箱, 接触电阻测试仪, 绝缘电阻测试仪, 显微镜 Salt spray test chamber, Contact resistance tester, Microscope															
外观 Conformation	Sample No.	测试结果 Test result										图示 (测试中)		图示 (测试后)		判定 Judgment	
	1 #	镀层无氧化, 发黑, 腐蚀点等不良现象 Plating layer without oxidation, black, corrosion point and other bad phenomena												OK			
	2 #	镀层无氧化, 发黑, 腐蚀点等不良现象 Plating layer without oxidation, black, corrosion point and other bad phenomena												OK			
	3 #	镀层无氧化, 发黑, 腐蚀点等不良现象 Plating layer without oxidation, black, corrosion point and other bad phenomena												OK			
	4 #	镀层无氧化, 发黑, 腐蚀点等不良现象 Plating layer without oxidation, black, corrosion point and other bad phenomena												OK			
	5 #	镀层无氧化, 发黑, 腐蚀点等不良现象 Plating layer without oxidation, black, corrosion point and other bad phenomena												OK			
端子接触 阻抗C. R	Pin No.	1	2	3	4	5	6					G1	G2		判定 Judgment		
	Sample No.																
	1 #	Initial	20.8	22.0	18.3	21.4	20.1	18.8					6.1	4.9		OK	
		Final	23.8	28.7	29.8	32.6	28.2	27.6					9.6	7.1			
		ΔR	3.0	6.7	11.5	11.3	8.2	8.9					3.5	2.3			
	2 #	Initial	21.7	18.3	18.5	21.9	20.9	20.2					5.0	5.4		OK	
		Final	32.6	25.1	31.4	25.1	30.2	22.2					9.3	9.1			
		ΔR	10.9	6.9	12.9	3.2	9.3	2.0					4.2	3.8			
	3 #	Initial	19.3	21.3	20.2	19.9	21.3	21.3					5.3	4.9		OK	
		Final	26.6	25.2	26.0	22.2	24.0	25.1					7.7	9.3			
		ΔR	7.3	4.0	5.7	2.4	2.6	3.8					2.4	4.4			
	4 #	Initial	21.9	18.7	18.3	21.7	21.8	20.5					5.3	6.2		OK	
		Final	32.6	22.9	30.7	22.1	29.1	33.0					9.5	8.8			
		ΔR	10.7	4.3	12.4	0.4	7.3	12.5					4.2	2.7			
	5 #	Initial	20.9	21.6	21.7	21.0	21.8	18.4					5.6	5.0		OK	
		Final	25.0	22.5	29.5	30.0	31.7	23.4					9.4	7.2			
		ΔR	4.2	0.9	7.8	9.0	9.9	4.9					3.8	2.2			
	绝缘测试 Insulation Resistance Test	Pin No.	1~2 PIN	2~3 PIN	3~4 PIN	4~5 PIN	5~6 PIN	6~1 PIN					G1~1PIN	G1~6PIN	G2~3PIN	G2~4PIN	判定 Judgment
		Sample No.															
		1 #	PASS	PASS	PASS	PASS	PASS	PASS					PASS	PASS	PASS	PASS	OK
2 #		PASS	PASS	PASS	PASS	PASS	PASS					PASS	PASS	PASS	PASS	OK	
3 #		PASS	PASS	PASS	PASS	PASS	PASS					PASS	PASS	PASS	PASS	OK	
4 #		PASS	PASS	PASS	PASS	PASS	PASS					PASS	PASS	PASS	PASS	OK	
测试结论 Conclusion	PASS																
	备注 Note	绝缘测试机最大值为9999Ω, 超过此值不显示数值															
核准 Approved by		LEO				审核 Checked by				XIAOMING. ZENG				检测 Inspected by		ZHU. LU	



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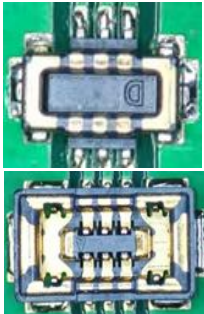
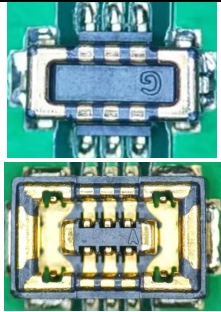
L 组测试记录 Group L Test Record

测试项目 Test Item		焊接性测试, 焊板保持力和外观检查 Solder ability &Insertion feel&SMT Retention force and Conformation of Product						
测试标准 Test Method		参照EIA-364-52&EIA-364-18电子连接器测试程序 及规格书 Referring to EIA-364-52&EIA-364-18 Electronic connector test procedures and specifications						
品名规格 product name	B09-06PIN 公母座	料号 Part Number	BB0009P06A/BB0009R06A		送测日期 Test date	2024.05.18	完成日期 target date	2024.06.19
判定标准 Judgment Method	焊接性测试 Solder ability	要求焊脚润锡面积达到浸润面积的95%以上, 产品无损坏 It is required that the welding foot running tin area reaches more than 95% of the infiltration area, and the product is not damaged						
	焊板保持力 SMT Retention force	水平方向: 30N Min; 垂直方向: 30N Min Horizontal direction: 30N Min, Vertical direction: 30N Min						
测试条件 Test Condition	焊接性测试 Solder ability	测试样品放置在已刷好锡膏的PCB板上, 过回流焊炉进行焊接, 回流焊炉最高温度: 260+/-5℃, 时间: 15S/MIN, 过2次回流焊; The test sample is placed on the PCB plate brushed with tin paste, and the reflux welding furnace is used for welding. The maximum temperature of IR furnace:: 260+/-5℃, Time: 15 S/M IN, 2 IR furnace;						
	焊板保持力 SMT Retention force	产品焊接在PCB板子上, 以 12.5 mm per minute的速度, 从水平方向和垂直方向推产品, 使产品和PCB剥离; The product is welded to the PCB board and pushed horizontally and vertically to remove the product from the PCB at a speed of 12.5mm per minute;						
测试设备 Test equipment		热风回流焊, 插拔力测试机, 显微镜 Automatic plug and pull force test machine, Contact the resistance tester, Microscope						
焊接性测试 Solder ability	Sample No.	测试结果 Test result				图示		判定 Judgment
	1 #	焊脚95%区域沾锡饱满, 有光泽, 塑胶无起泡, 变形. 95% of the welding foot area with tin full, shiny, plastic without foaming, deformation.				 		OK
	2 #	焊脚95%区域沾锡饱满, 有光泽, 塑胶无起泡, 变形. 95% of the welding foot area with tin full, shiny, plastic without foaming, deformation.						OK
	3 #	焊脚95%区域沾锡饱满, 有光泽, 塑胶无起泡, 变形. 95% of the welding foot area with tin full, shiny, plastic without foaming, deformation.						OK
	4 #	焊脚95%区域沾锡饱满, 有光泽, 塑胶无起泡, 变形. 95% of the welding foot area with tin full, shiny, plastic without foaming, deformation.						OK
	5 #	焊脚95%区域沾锡饱满, 有光泽, 塑胶无起泡, 变形. 95% of the welding foot area with tin full, shiny, plastic without foaming, deformation.						OK
测试记录 test record	Sample No.	测试结果 Test result						判定 Judgment
		焊板保持力 SMT Retention force						
	1 #	水平方向 Horizontal direction	PASS	垂直方向 Vertical direction	PASS	OK		
	2 #		PASS		PASS	OK		
	3 #		PASS		PASS	OK		
	4 #		PASS		PASS	OK		
	5 #		PASS		PASS	OK		
测试结论 Conclusion		PASS						
备注 Note	焊板保持力测试设置推力为30N, 未剥离即为满足要求; Welding plate retention force test set the thrust of 30N, not stripped to meet the requirements;							
核准 Approved by	LEO	审核 Checked by	XIAOMING. ZENG		检测 Inspected by	ZHU. LU		



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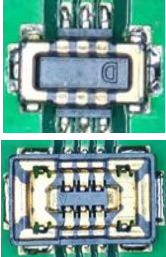
O组测试记录 Group O Test Record

测试项目 Test Item		耐焊接热测试及外观检查 Resistance to soldering heat and Conformation of Product									
测试标准 Test Method		参照EIA-364-18电子连接器测试程序及产品规格书 Refer to EIA-364-18 electronic connector test procedures and product specifications									
品名规格 product name	B09-06PIN 公母座	料号 Part Number	BB0009P06A/BB0009R06A	送测日期 Test date	2024.05.18	完成日期 target date	2024.06.18				
判定标准 Judgment Method		外观无明显损伤;焊脚平面度不超0.08mmAppearance: No abnormality;Coplanarity of the solder tail should be not beyond 0.08mm									
测试条件 Test Condition		1. 红外线回流焊接, 峰值温度260度以下, 可参考温度曲线图(5.0), 且要求SMT2次; 2. 电烙铁, 需要300度5秒, 350度以下3秒。 1. Infrared reflow soldering, the peak temperature of 260 degrees Celsius, reference temperature curve, and the requirements of the SMT2 time;2.electric soldering iron, requires 300 degrees 5 seconds, 350 degrees below 3 seconds.									
测试设备 Test equipment		热风回流焊, 显微镜, 电烙铁 Reflow welding, Microscope, Soldering iron									
回流焊 Reflux	Sample No.	测试结果 Test Result			图示		判定 Judgment				
	P1	外观无损伤, 焊脚平面度实测<0.010mm Appearance is no damage, the planplane of welding foot is <0.08mm					OK				
	P2	外观无损伤, 焊脚平面度实测<0.010mm Appearance is no damage, the planplane of welding foot is <0.08mm					OK				
	P3	外观无损伤, 焊脚平面度实测<0.010mm Appearance is no damage, the planplane of welding foot is <0.08mm					OK				
	P4	外观无损伤, 焊脚平面度实测<0.010mm Appearance is no damage, the planplane of welding foot is <0.08mm					OK				
	P5	外观无损伤, 焊脚平面度实测<0.010mm Appearance is no damage, the planplane of welding foot is <0.08mm					OK				
电烙铁 electric iron	Sample No.	测试结果 Test Result			图示		判定 Judgment				
	P1	外观无损伤, 焊脚平面度实测<0.010mm Appearance is no damage, the planplane of welding foot is <0.08mm					OK				
	P2	外观无损伤, 焊脚平面度实测<0.010mm Appearance is no damage, the planplane of welding foot is <0.08mm					OK				
	P3	外观无损伤, 焊脚平面度实测<0.010mm Appearance is no damage, the planplane of welding foot is <0.08mm					OK				
	P4	外观无损伤, 焊脚平面度实测<0.010mm Appearance is no damage, the planplane of welding foot is <0.08mm					OK				
	P5	外观无损伤, 焊脚平面度实测<0.010mm Appearance is no damage, the planplane of welding foot is <0.08mm					OK				
测试结论 Conclusion		PASS									
备注 Note											
核准 Approved by		LEO		审核 Checked by		XIAOMING. ZENG		检测 Inspected by		ZHU. LU	



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P组测试记录 Group P Test Record

测试项目 Test Item			温升测试 Temperature rise test					
测试标准 Test Method			参照 EIA-364-70B电子连接器测试程序及产品规格书 Referring to EIA-364-70B Electronic connector test procedures and specifications					
品名规格 product name	B09-06PIN 公母座	料号 Part Number	BB0009P06A/BB0009R06A	送测日期 Test date	2024. 05. 18	完成日期 target date	2024. 06. 19	
测试标准 Judgment Method	1. 在Power Pin端子给予7A的电流, 30V电压, 功率210W; Signal端子不通电; 2. 接HC1&HC2&HC3&HC4感温通道进行测试, 测试时间1H, 每10sec进行温度记数; 3. 30min内温度的变化量减去常温产品不能超过30℃;							
测试条件 Test Condition	温 度: 20-26℃. 湿 度: 30%R. H~70%R. H							
测试设备 Test equipment	温升测试仪 Temperature rise test							
测试结果 Test result	1. 列出测试/实验过程中所获得的数据资料或观察到的现象, 数据资料以平均值表示 List the data materials or phenomenon that observe tested / obtained in the experiment course, the data materials are expressed with average 2. 经过1H持续测试, 产品最高温度减去平均常温产品实际发热温度为18. 45℃~19. 42℃, 符合标准, 判定OK。 After 1H continuous testing, the maximum temperature of the product minus the average normal temperature, the actual heating temperature of the product is 18. 45℃~19. 42℃, Celsius, which meets the standard and judged OK.							
测定值/现象 Test Value/Phenomenon		测试前温度 (unit: ℃)	导电后温度 (1H) (unit: ℃)	温度升高值 (unit: ℃)	判定 Judgment	 参数设置  测试后		
	1#	24.6	43.11	18.51	OK			
	2#	24.8	43.55	18.75	OK			
	3#	24.5	42.95	18.45	OK			
	4#	24.7	44.12	19.42	OK			
	5#	24.3	43.53	19.23	OK			
测试结论 Conclusion	PASS							
备注 Note								
核准 Approved by	LEO		审核 Checked by		XIAOMING. ZENG		检测 Inspected by	ZHU. LU