

# 规格确认栏

SPECIFICATION FOR APPROVAL

客户(CUSTOMER): \_\_\_\_\_

品名(ARTICLE): \_\_\_\_\_

客户型号(YOUR MODEL No.): \_\_\_\_\_

客户料号(YOUR PART No.): \_\_\_\_\_

博穆型号(OUR MODEL No.): \_\_\_\_\_ XH SERIES

博穆料号(OUR PART No.): \_\_\_\_\_

客户确认 (CUSTOMER APPROVED BY) :

	经理		主管		经办	
	签字	日期	签字	日期	签字	日期
完全确认						
条件确认						
不予确认						

意见与建议 (OPINION AND RECOMMEND) :



# PRODUCT SPECIFICATION



语言 LANGUAGE

中文 CHINESE

英语 ENGLISH

## 1. 适用范围 SCOPE

本规格包含 2.5mm 线对板连接器系列

This specification covers the 2.5mm PITCH WIRE TO BOARD CONNECTOR series.

## 2. 产品名称和型号 PRODUCT NAME AND PART NUMBER

产品名称 Product Name	产品型号 Part Number	包装数量 packaging
端子 Terminal (AWG #22-32)	XH-PT	6K
胶壳 Housing	XH-Y	1K
针座组装 Wafer Assembly (R/A)	无铅 LEAD FREE	XH-A/AW/AWD/AWD (K)
针座包装 Wafer Assembly (R/A)	无铅 LEAD FREE	塑袋包装 ( plastic Package)
针座包装 Wafer Assembly (R/A)	无铅 LEAD FREE	塑袋包装 ( plastic Pckage)

参照图片 Refer to the drawing

## 3. 等级和适用电线 RATINGS AND APPLICABLE WIRES

项目 Item	标准 Standard	
最大额定电 Rated Voltage(MAX.)	250V	
最大额定电流和适用电线 Rated Current (MAX.) and Applicable wires	AWG. #22	3A
	AWG. #32	3 A
环境温度范围 Ambient Temperature Range	-25℃ ~ +85℃*1	

REV.	B														
SHEET	1-9														

只根据 PC 修订 REVISE ON PC ONLY		标题 TITLE: 2.5 间距线对板连接器产品规格书 2.5mm PITCH WIRE TO BOARD SMT CONNECTOR															
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	版本 REV.	描述 DESCRIPTION	编制 WRITTEN BY: 吴正芳			审核 CHECKED BY: 李明茂			批准 APPROVED BY: 刘旭平			日期 DATE: YR/MO/DAY 2008/06/26					
设计控制 DESIGN CONTROL 陈光桥 孙递雄		STATUS															

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\*1.包括端子温度的上升  
Including terminal temperature rise.

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标题 TITLE:

2.5 间距线对板连接器产品规格书

2.5mm PITCH WIRE TO BOARD SMT CONNECTOR

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# PRODUCT SPECIFICATION



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## 4. 性能

### PERFORMANCE

#### 4-1 . 电性能

#### ELECTRICAL PERFORMANCE

项目 Item		测试条件 Test condition	规格要求 Requirement
4-1-1	接触电阻 Contact Resistance	插配阴阳连接器后, 用小功率电路进行测试。最大电压 20mV, 电流 30mA Mate connectors, measure by dry circuit, 20mV MAX., 30mA. (JIS C5402 5.4)	最大值 20 毫欧 20 milliohm MAX.
4-1-2	绝缘电阻 Insulation Resistance	(插配阴阳连接器后,) 在相邻端子或地线和端子之间用 500V 的小功率电路进行测试 (JIS C5402 5.2/MIL-STD-202 测试法 302) Apply 500V DC between adjacent terminals or terminal and ground .(JIS C5402 5.2/MIL-STD-202 Method 302)	最小值 100 兆欧姆 100 Megohm MIN.
4-1-3	耐压强度/绝缘强度 Dielectric Strength	用 1000V 电压在相邻端子或地线和端子之间进行测试 1 分钟 Apply 1000V AC(rms) between adjacent terminals or terminal and ground for 1 minute. (JIS C5402 5.1/MIL-STD-202 Method 301) (JIS C5402 5.1/MIL-STD-202 测试法 301)	无击穿和飞弧现象 No Breakdown
4-1-4	压线部位接触电阻 Contact Resistance on Crimped Portion	20mV MAX., 30mA. 用适合的电线将端子压线, 然后用小功率电路进行电阻测试。最大电压 20mV, 电流 30mA Crimp the applicable wire to the terminal, and measure contact resistance by dry circuit,	最大值 5 毫欧 5 milliohm MAX.

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# PRODUCT SPECIFICATION



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## 4-2 . 机械性能 MECHANICAL PERFORMANCE

项目 Item		测试条件 Test condition	规格要求 Requirement
4-2-1	插入力和拔出力 Insertion and Withdrawal Force	以每分钟 25+3mm 的速度拔出，插入连接器 Insert and withdraw connectors at the speed rate of 25+ 3mm/minute.	7 参考第七段 Refer to paragraph
4-2-2	压线强度 Crimping Strength	固定压好线的端子，以每分钟 25+3mm 的速度沿 着轴线拔出线 Fix the crimped terminal, apply axial pull out force on the wire at the speed rate of 25+ 3mm/minute.	AWG. #22 9.8 N 1.0kgf MIN.
			AWG. #32 4.9 N 0.5kgf MIN.
4-2-3	端子插入力 Terminal Insertion Force	将已经压好线对端子插入胶壳 Insert the crimped terminal into the housing	4.9 N 0.5kgf MAX.
4-2-4	端子和胶壳的固 定力 Terminal/ Housing Retention Force	以每分钟 25+3mm 的速度，沿着轴线将装在胶壳 里的端子拔出 Apply axial pull out force to the terminal assembled in the housing at the speed rate of 25 +3mm/minute.	4.9 N 0.5kgf MIN.
4-2-5	针对固定力 Pin Retention Force	以每分钟 25+3mm 的速度，沿着轴线将针拔出 Apply axial push force at the speed rate of 25+ 3mm/minute.	4.9 N 0.5kgf MIN.

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## 4-2 . 机械性能 MECHANICAL PERFORMANCE

项目 Item		测试条件 Test condition	规格要求 Requirement	
4-3-1	机械寿命 Repeated Insertion/ Withdrawal	以每分钟插拔 10 次的速度插拔 30 次。 When mated up to 30 cycles repeatedly by the rate of 10 cycles per minute.	接触电阻 Contact Resistance	最大 40 毫欧 40 milliohm MAX.
4-3-2	温度上升 Temperature Rise	通以最大额定电流 (UL 498) Carrying rated current load. (UL 498)	温度上升 Temperature Rise	最大 30 摄氏度 30 MAX.
4-3-3	振动 Vibration	Amplitude 振幅 1.5mm P-P SWEEP TIME: 扫描时间: 10-55-10 Hz in 1 minute 每分钟 10-55-10 赫兹 Duration: 持续时间: 2 hours in each x.y.z. axes X.Y.Z 三轴各 2 小时 (MIL-STD-202 Method 201) (MIL-STD-202 测试法 201)	外观 Appearance	无损伤 No Damage
			接触电阻 Contact Resistance	最大 40 毫欧 40 milliohm MAX.
			中断 Discontinuity	最大 1 微秒 1.0 microsecond MAX.
4-3-4	耐冲击性 Shock	490m/s2 {50G}, 3 strokes in each X.Y.Z. axes. (JIS C60068-2-27/MIL-STD-202 Method 213) 490m/s2 {50G}, X.Y.Z 轴各 3 击 (JIS C60068-2-27/MIL-STD-202 测试法 213)	外观 Appearance	无损伤 No Damage
			接触电阻 Contact Resistance	最大 40 毫欧 40 milliohm MAX.
			中断 Discontinuity	最大 1 微秒 1.0 microsecond MAX.
4-3-5	耐热性 Heat Resistance	85 2 96 hours (JIS C60068-2-2/MIL-STD-202 Method 108)在 83 到 87 摄氏度的环境中放置 (JIS C60068-2-2/MIL-STD-202 测试法 108)	外观 Appearance	无损伤 No Damage
			接触电阻 Contact Resistance	最大 40 毫欧 40 milliohm MAX.

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标题 TITLE:

2.5 间距线对板连接器产品规格书

2.5mm PITCH WIRE TO BOARD SMT CONNECTOR

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项目 Item		测试条件 Test condition	规格要求 Requirement	
4-3-6	耐寒性 Cold Resistance	在零下 37 到零下 43 摄氏度的环境下放置 96 小时(JIS C60068-2-1)	外观 Appearance	无损伤 No Damage
			接触电阻 Contact Resistance	最大 40 毫欧 40 milliohm MAX.
4-3-7	耐 湿 性 Humidity	温度 58-62 摄氏度 Temperature 58-62 相对湿度 90-95% Relative Humidity 90-95% 持续时间: 96 小时 Duration 96 hours (JIS C60068-2-3/MIL-STD-202 Method 103)(JIS C60068-2-3/MIL-STD-202 测试法 103)	外观 Appearance	无损伤 No Damage
			接触电阻 Contact Resistance	最大 40 毫欧 40 milliohm MAX.
			耐压强度 Dielectric Strength	满足 4-1-3 Must meet 4-1-3
			绝缘电阻 Insulation Resistance	最小 10 兆欧姆 10MegohmMIN.
4-3-8	温 度 循 环 Temperature Cycling	5 cycles of : a) - 55 30minute b) +105 30minute (JIS C0025) a)在零下 55 摄氏度放置 30 分钟 b) 在岭上 105 摄氏度放置 30 分钟, 5 个这样的循环(JIS C0025)	外观 Appearance	无损伤 No Damage
			接触电阻 Contact Resistance	最大 40 毫欧 40 milliohm MAX.
4-3-9	盐 雾 Salt Spray	48 4 hours exposure to a salt spray from the 5 1% solution at 35 2 . (JIS C5028/MIL-STD-202 Method 101) 在 33-35 摄氏度的环境中, 采用浓度为 4-6%的氯化钠溶液, 连续雾化 44-52 小时, 然后再水中洗净, 在室内干燥	外观 Appearance	无损伤 No Damage
			接触电阻 Contact Resistance	最大 40 毫欧 40 milliohm MAX.

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# PRODUCT SPECIFICATION



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4-3-10	亚硫酸气体 SO2 Gas	在 38-42 摄氏度的温度下在 45-5ppm 亚硫酸气体中放置 24 小时 24 hours expose to 50 5ppm . SO2 gas at 40 2 .	外观 Appearance	无损伤 No Damage
			接触电阻 Contact Resistance	最大 40 毫欧 40 milliohm MAX.
4-3-11	氨气 NH3 Gas	在从 28%的氨气溶液中蒸发出来的氨气中暴露 40 分钟 40 minutes exposure to NH3 gas evaporating from 28% Ammonia solution.	外观 Appearance	无损伤 No Damage
			接触电阻 Contact Resistance	最大 40 毫欧 40 milliohm MAX.
4-3-12	可焊性 Solderability	焊接时间: 2-3 秒, 焊接温度 242-248 摄氏度, 从端子顶到接头顶 0.5mm Soldering Time 2 3 sec. Solder Temperature 245 3 0.5mm from terminal tip and fitting nail tip.	焊锡附着性 Solder Wetting	95%浸泡的地方没有间点和小孔 95 of immersed area must show no voids, pin holes
4-3-13	耐焊热性 Resistance To Soldering Heat	软熔发亮处理, 重复第六段 When reflowing Repeat paragraph 6.	无损伤 No Damage	
		Soldering iron method 焊铁方法 Soldering time : 3 1 sec. 焊接时间: 2-4 秒 Solder temperature 370 400 焊接温度 370-400 摄氏度 0.5mm from terminal tip and fitting nail tip 从端子顶到接头顶 0.5mm		
( ) : 参考规格 REFERENCE				

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# PRODUCT SPECIFICATION



语言 LANGUAGE

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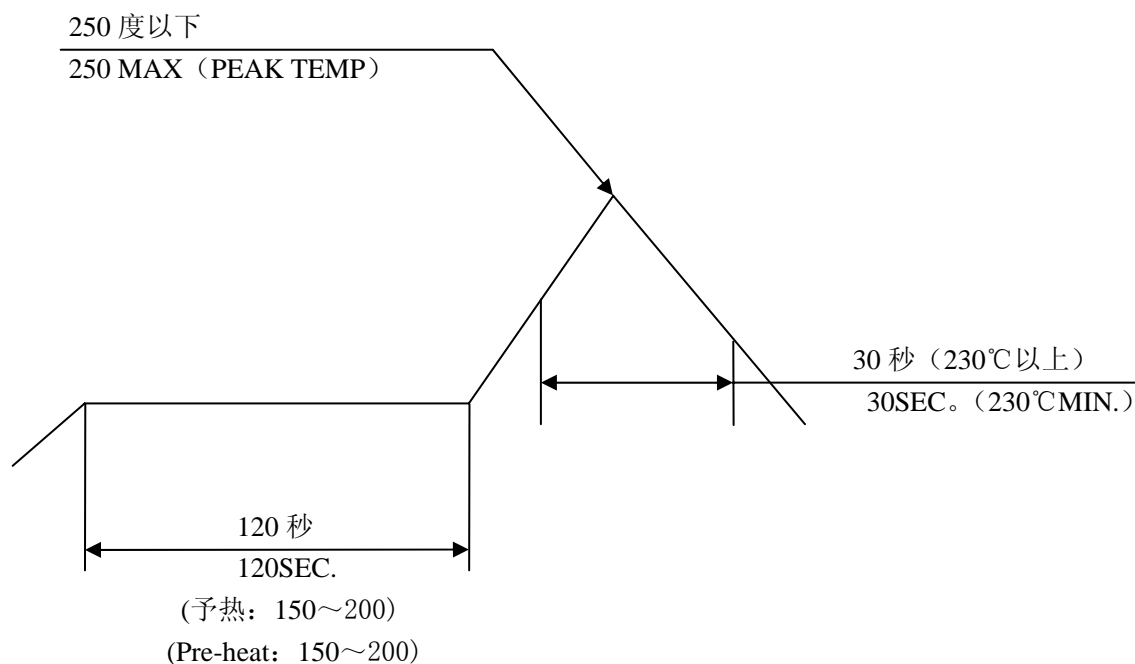
英语 ENGLISH

Standard

## 5. 产品形状，尺寸和材料 PRODUCT SHAPE, DIMENSIONS AND MATERIALS

参考图纸 Refer to the drawing

## 6. 红外线回流（软熔）条件 INFRARED REFLOW CONDITION



注 明：请先根据你自己的设备检查一下软熔焊剂条件，因为该条件是随着焊接设备，P.C.板等的不同而不同的。

NOTE : Please check the reflow soldering condition by your own devices beforehand. Because the condition changes by the soldering devices, P.C.Boards, and so on.

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# PRODUCT SPECIFICATION



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## 7. 插入/拔出力 INSERTION / WITHDRAWAL FORCE

单位 (N) Unit (N)		单孔 monotrematous				
		试样一	试样二	试样三	试样四	试样五
胶壳与 针座 housing and wafer	插入力 Insertion force	1 8.7N	2 8.75N	3 8.74N	4 8.7N	5 8.7 N
	拔出力 Withdrawal force	1 7.5N	2 7.4N	3 7.5N	4 7.6N	5 7.7 N
胶壳与 端子 housing and terminal	插入力 Insertion force	1 5N	2 5.5N	3 6N	4 7.5N	5 7.0N
	拔出力 Withdrawal force	1 12.5N	2 12.4N	3 12.7N	4 11.9N	5 11.9N

注明：胶壳与针座（housing and wafer）

插入力与拔出力为压线后端子与胶壳、针座相配套组装后测试所得的值

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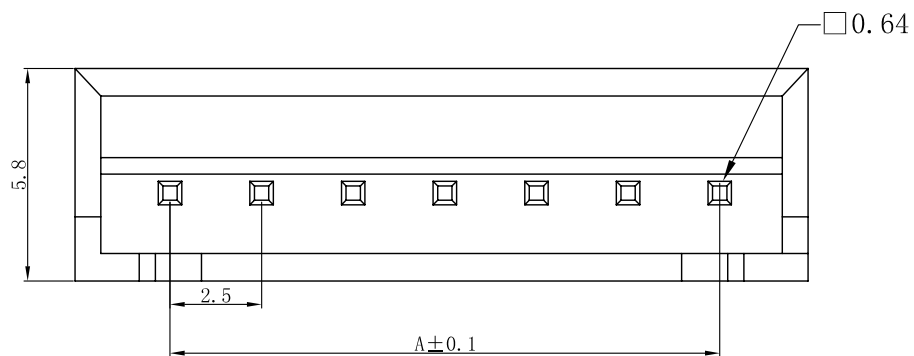
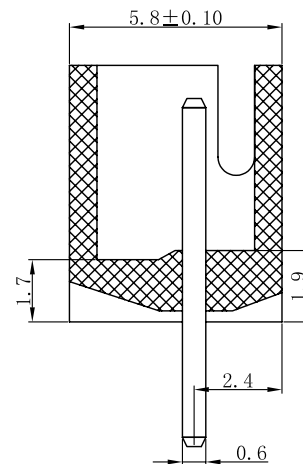
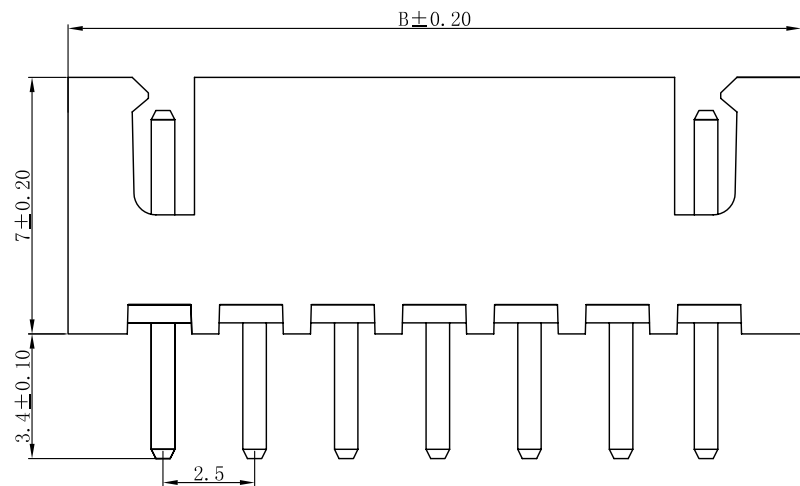
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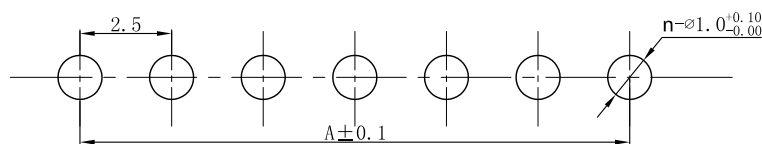
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版次	日期	变更内容	变更单号	变更者
1.0		原始版本		

# PITCH 2.5mm BAR CONNECTOR WAFER



孔位	2	3	4	5	6	7	8	9
A	2.5	5.0	7.5	10.0	12.5	15.0	17.5	20.0
B	7.4	9.9	12.4	14.9	17.4	19.9	22.4	24.9
孔位	10	11	12	13	14	15	16	
A	22.5	25.0	27.5	30.0	32.5	35.0	37.5	
B	27.4	29.9	32.4	34.9	37.4	39.9	42.4	



线路板安装尺寸

<b>BOOM</b> 乐清市博穆电子有限公司				XH-nA	
未注公差	尺寸公差:	±0.10mm	绘制		图号
	角度公差:	±1°	审查		比例
			核准		单位
			供应商	BOOM	页次
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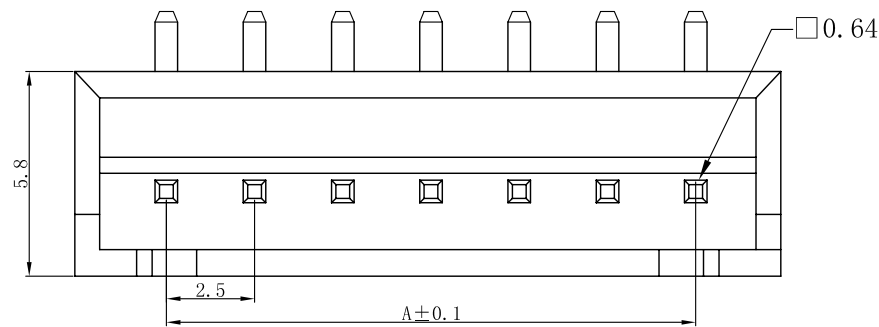
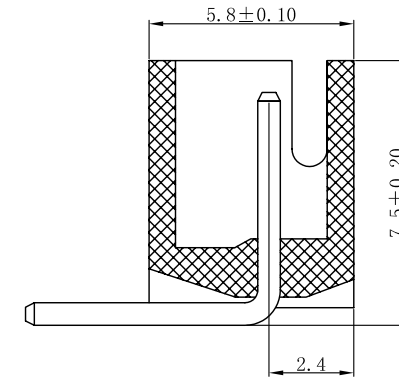
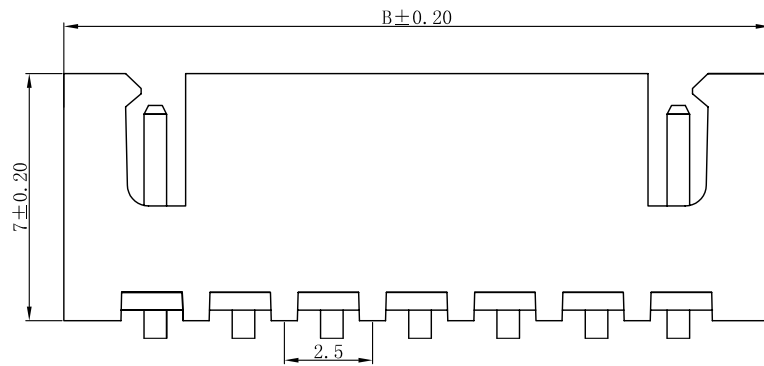
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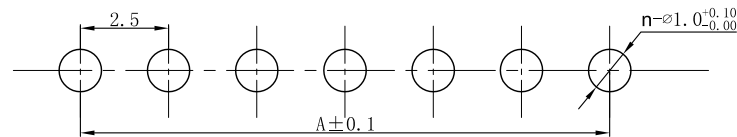
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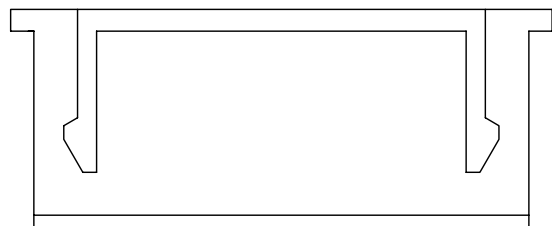
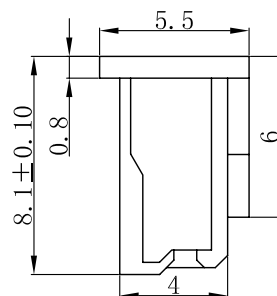
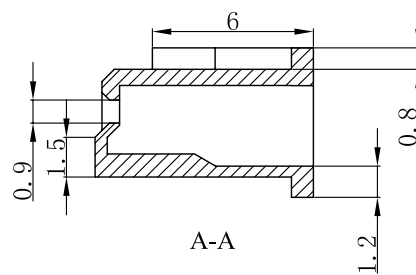
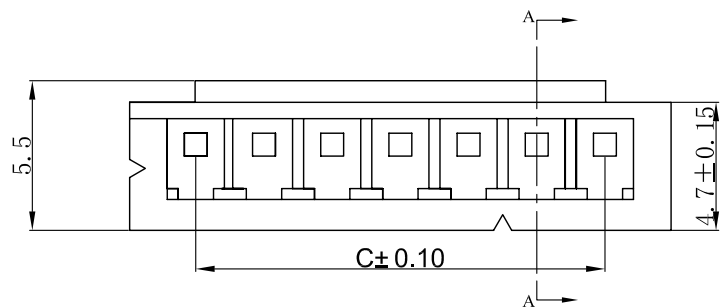
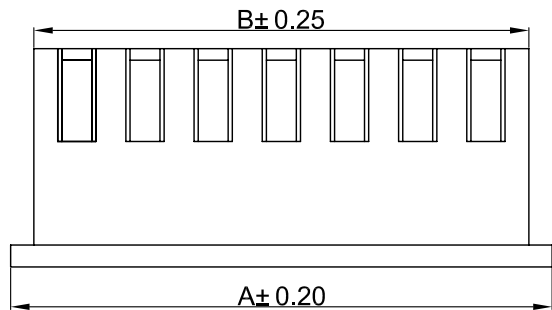


孔位	2	3	4	5	6	7	8	9
A	2.5	5.0	7.5	10.0	12.5	15.0	17.5	20.0
B	7.4	9.9	12.4	14.9	17.4	19.9	22.4	24.9
孔位	10	11	12	13	14	15	16	
A	22.5	25.0	27.5	30.0	32.5	35.0	37.5	
B	27.4	29.9	32.4	34.9	37.4	39.9	42.4	



线路板安装尺寸

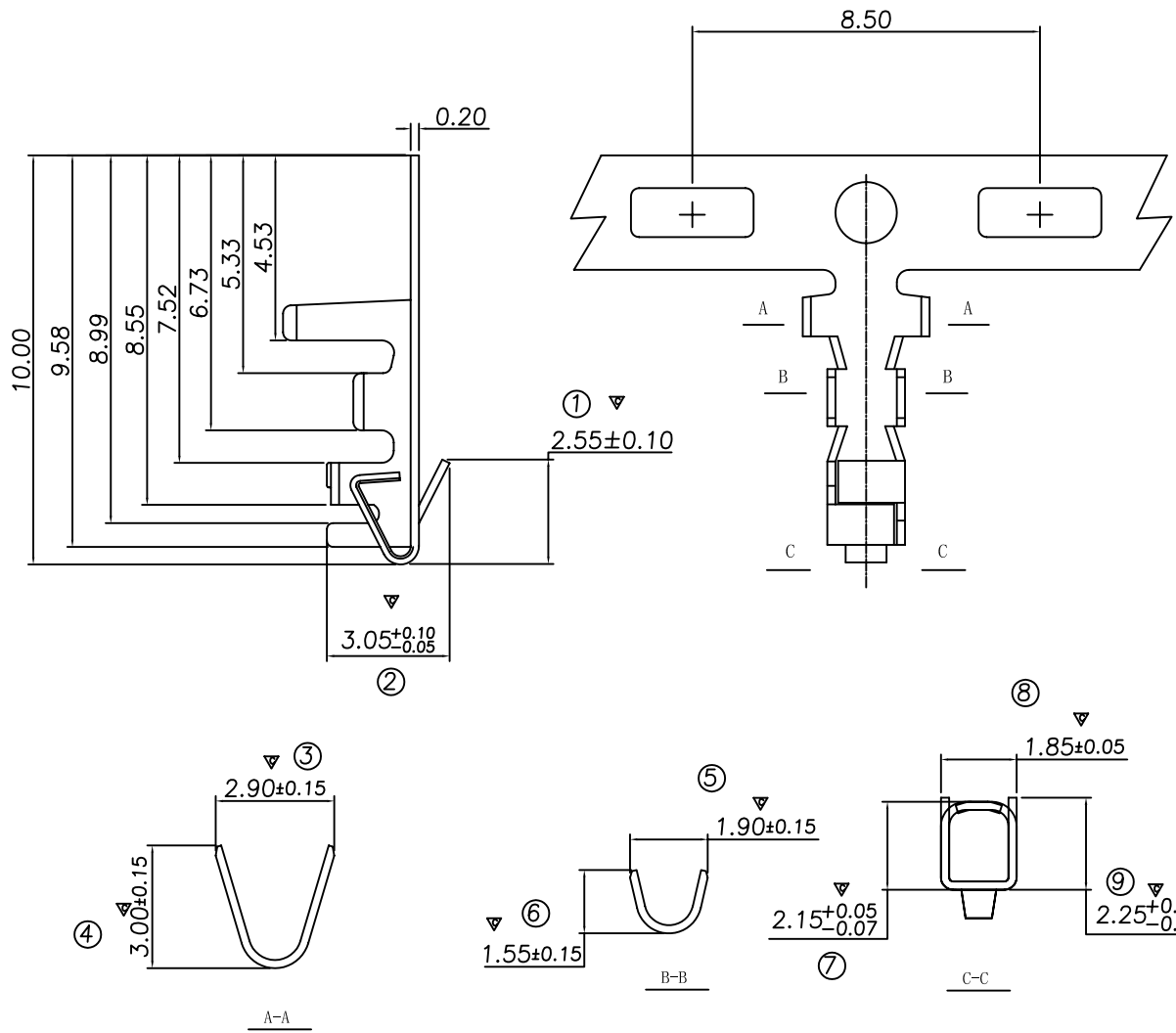
UNIT: MM	TYPE: CONNECTOR	MODEL NO: XH-nAW	日期 DATE: 2008/06/20	??1 OF 1
			YR/MO/DAY	PAGE1 OF 1
设计控制 DESIGNER: BY CHENGUANGQIAO	文件编号 DOCUMENT NUMBER		未注公差 TOLERANCE: ±0.20	角度公差 ANGLES: ±1.5°
绘制 DRAFTSMAN: WUZHENGFANG			比例 SCALE: FIT	版本 VER: 1.0
审核 CHECKED BY: LIMINGMAO	供应商 COME OUT WITH: BOOMELE	<b>BOOM</b> 乐清市博穆电子有限公司		
批准 APPROVED BY: LIUXUPING		<b>BOOM ELECTRONIC CO., LTD. YUEQING</b>		



### DIMENSIONS (unit:mm)

型号	A	B	C
XH-2Y	7.5	5.64	2.5
XH-3Y	10.0	8.14	5.0
XH-4Y	12.5	10.64	7.5
XH-5Y	15.0	13.14	10.0
XH-6Y	17.5	15.64	12.5
XH-7Y	20.0	18.14	15.0
XH-8Y	22.5	20.64	17.5
XH-9Y	25.0	23.14	20.0
XH-10Y	27.5	25.64	22.5
XH-11Y	30.0	28.14	25.0
XH-12Y	32.5	30.64	27.5
XH-13Y	35.0	33.14	30.0
XH-14Y	37.5	35.64	32.5
XH-15Y	40.0	38.14	35.0
XH-16Y	42.5	40.64	37.5

UNIT: MM	TYPE: CONNECTOR	MODEL NO: XH-nY	日期 DATE YR/MO/DAY 2008/06/20	页次 1 OF 1 PAGE OF 1
公差 TOLERANCE $\pm 0.15$	角度公差 ANGLES $\pm 1.5^\circ$	比例 SCALE FIT	版本 VER 1.0	
设计控制 DESIGNER BY CHENGUANGQIAO	文件编号 DOCUMENT NUMBER	<b>BOOM</b> 乐清市博穆电子有限公司 BOOM ELECTRONIC CO., LTD. YUEQING		
绘制 DRAFTSMAN BY WUZHENGFANG	供应商 COME OUT WITH			
审核 CHECKED BY LIMINGMAO	BOOMELE			
批准 APPROVED BY LIUXUPING				



标“▽”为重点管制尺寸，

UNIT: MM 	TYPE: <b>TERMINAL</b>	MODEL NO: XH TERMINAL	日期 DATE YR/MO/DAY 2008/06/20	页次1 OF 1 PAGE1 OF 1
设计控制 DESIGNER BY SUNDIXIONG	文件编号 DOCUMENT NUMBER	公差 TOLERANCE ± 0.15	角度公差 ANGLES ± 1.5°	版本 VER 1.0
绘制 DRAFTSMAN BY WUZHENGFANG	审核 CHECKED BY LIMINGMAO	<b>BOOM</b> 乐清市博穆电子有限公司 BOOM ELECTRONIC CO., LTD. YUEQING		
批准 APPROVED BY LIUXUPING	供应商 COME OUT WITH BOOMELE			



BOOM ELECTRONIC CO.,LTD YUE QING ZHEJIANG
NO.187 LIMINGXI ROAD, WEST INDUSTRY ZONE, HONGQIAO TOWN, YUE QING,ZHEJIANG
CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as :
CONNECTOR

SGS Job No. : 10899628 - SZ
SGS Internal Reference No. : 2.1
Date of Sample Received : 17 Mar 2008
Testing Period : 17 Mar 2008 - 21 Mar 2008
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).

Signed for and on behalf of
SGS-CSTC Ltd.

[Handwritten signature]

Huang Fang, Sunny
Sr. Engineer

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Test Report

No. CANEC0800974302

Date: 21 Mar 2008

Page 2 of 5

Test Results:

ID for specimen 1 : CAN08-009743.001
Description for specimen 1 : Silvery metal

Heavy metal(s)

Table with 5 columns: Test Item(s), Unit, Test Method (Reference), Result, MDL. Rows include Cadmium (Cd), Lead (Pb), Mercury (Hg), and Hexavalent Chromium (CrVI) by boiling water extraction.

Note:

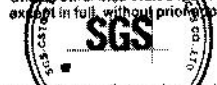
- 1. mg/kg = ppm
2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit
4. ◇ = Spot-Test:

Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;
(The tested sample should be further verified by boiling-water-extraction method if the spot test result is negative or cannot be confirmed.)

Boiling-water-extraction:

Negative = Absence of CrVI coating
Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.

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**Test Report**

No. CANEC0800974302

Date: 21 Mar 2008

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ID for specimen 2  
Description for specimen 2

: CAN08-009743.002  
: White plastic

**Heavy metal(s)**

Test Item(s)	Unit	Test Method (Reference)	Result	MDL
Cadmium (Cd)	mg/kg	IEC 62321/2nd CDV (111/95/CDV), ICP-OES	N.D.	2
Lead (Pb)	mg/kg	IEC 62321/2nd CDV (111/95/CDV), ICP-OES	N.D.	2
Mercury (Hg)	mg/kg	IEC 62321/2nd CDV (111/95/CDV), ICP-OES	N.D.	2
Hexavalent Chromium (CrVI) by alkaline extraction	mg/kg	IEC 62321/2nd CDV (111/95/CDV), UV-Vis	N.D.	2

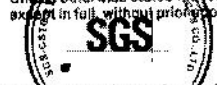
**Note:**

1. mg/kg = ppm
2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit

**Flame retardant**

Test Item(s)	Unit	Test Method (Reference)	Result	MDL
Sum of PBBs	mg/kg	-	N.D.	-
Monobromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5
Dibromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5
Tribromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5
Tetrabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5
Pentabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5
Hexabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5
Heptabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5
Octabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5
Nonabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5
Decabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5
Sum of PBDEs	mg/kg	-	N.D.	-
Monobromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5
Dibromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5
Tribromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5
Tetrabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5
Pentabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5
Hexabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5
Heptabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5
Octabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5
Nonabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5
Decabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5

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No. CANEC0800974302

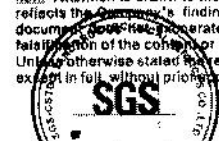
Date: 21 Mar 2008

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Note:

1. mg/kg = ppm
2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit
4. "-" = Not regulated

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No. CANEC0800974302

Date: 21 Mar 2008

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Sample photo:



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No. CANEC0800974301

Date: 21 Mar 2008

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BOOM ELECTRONIC CO.,LTD YUE QING ZHEJIANG  
NO.187 LIMINGXI ROAD, WEST INDUSTRY ZONE, HONGQIAO TOWN, YUE QING,ZHEJIANG  
CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as :

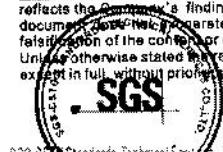
TERMINAL

SGS Job No. : 10899628 - SZ  
SGS Internal Reference No. : 2.2  
Date of Sample Received : 17 Mar 2008  
Testing Period : 17 Mar 2008 - 20 Mar 2008  
Test Requested : Selected test(s) as requested by client.  
Test Method : Please refer to next page(s).  
Test Results : Please refer to next page(s).

Signed for and on behalf of  
SGS-CSTC Ltd.

Huang Fang, Sunny  
Sr. Engineer

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Test Report

No. CANEC0800974301

Date: 21 Mar 2008

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Test Results:

ID for specimen 1 : CAN08-009743.003
Description for specimen 1 : Silvery metal

Heavy metal(s)

Table with 5 columns: Test Item(s), Unit, Test Method (Reference), Result, MDL. Rows include Cadmium (Cd), Lead (Pb), Mercury (Hg), and Hexavalent Chromium (CrVI) by boiling water extraction.

Note:

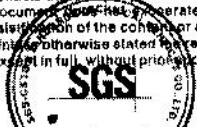
- 1. mg/kg = ppm
2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit
4. ◇ = Spot-Test:

Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;
(The tested sample should be further verified by boiling-water-extraction method if the spot test result is negative or cannot be confirmed.)

Boiling-water-extraction:

Negative = Absence of CrVI coating
Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.

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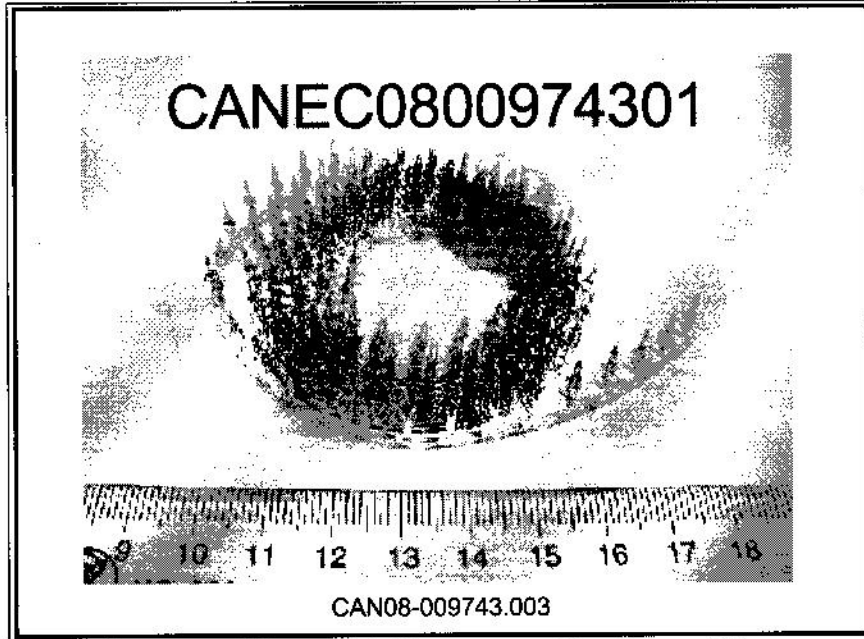
Test Report

No. CANEC0800974301

Date: 21 Mar 2008

Page 3 of 3

Sample photo:



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