



浙江联和电子有限公司
ZHEJIANG LIANHE ELECTRONICS CO., LTD.

承认书

SPECIFICATION FOR APPROVAL

客户名称 CUSTOMER: _____

品名 DESCRIPTION: PH型压接式条形连接器

料号 CUSERTOMER PART NO: A2001

客户确认 APPROVED SIGNATURES

核准 APPROVAL: _____

日期 DATE: _____

工程 ENGINEERING: _____

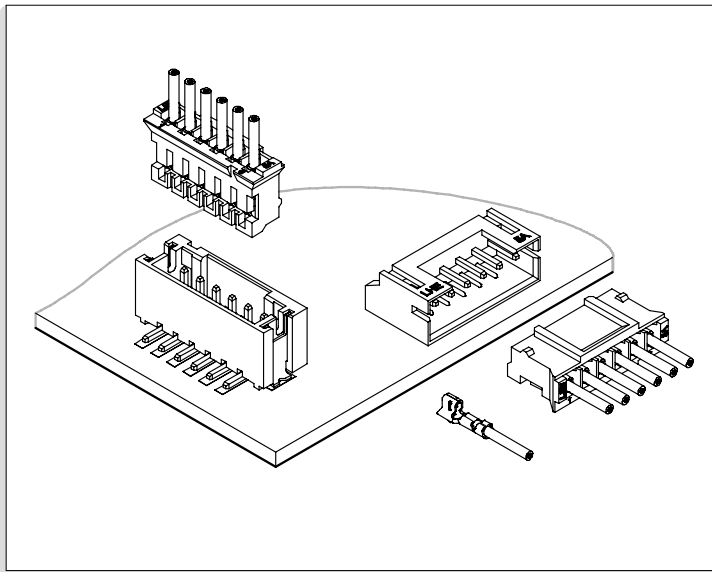
日期 DATE: _____

品管 QC: _____

日期 DATE: _____

承认结果: 承认 不承认

重新送样



规格 Specifications

- 极数 Poles: 2 to 20P
- 额定电流 Current rating: 2.0A AC,DC
- 额定电压 Voltage rating: 100V AC,DC
- 温度范围 Temperature range: -25°C to +105°C
(含通电温度上升值)
(Including temperature rise in applying electrical current)
- 接触电阻 Contact resistance: 初期 Initial value / $\leq 10\text{m}\Omega$
环境测试后 After environmental testing / $\leq 20\text{m}\Omega$
- 绝缘电阻 Insulation resistance: $\geq 1000\text{M}\Omega$
- 耐电压 Withstanding voltage: 800V AC/minute
- 适用线规 Applicable wire: AWG #32 to #24
- 适用基板厚度 Applicable PC board thickness: 0.8-1.6mm



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制订 Edit: 王夫 日期 DATE: 2024-05-10

审核 Check: 天琴 日期 DATE: 2024-05-10

批准 Approval: 季育文 日期 DATE: 2024-05-10

壳体料号说明 HOUSING

A 2001 - S H B 02 X2 - N* - * - ** - ** - ** - **

<p>A: Wire to Board Connectors B: Board-in Connectors C: Wire to Wire Connectors D: Hard Splices Connectors F: FFC/FPC Connectors I: IDC</p> <p>系列号 Series Number</p> <p>特征类别(默认空) Feature Category: S=锁片型</p> <p>产品类别 H=壳体 Housing P=密封件 Water Proofing Product Category: F=配件 Fitting</p> <p>同类别多型号序号(默认空) Same Series Different Type: B-ZZ</p> <p>单列极数 The Pin Number of Single Row: 01-**</p> <p>多列列数 The Pin Number of Several Row: X2~X* (无则空)</p> <p>M为堵孔, *为堵孔序号(例M1.2.5)(无则空)</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">1=PA66</td> <td style="width: 50%;">10=PC</td> </tr> <tr> <td>2=PA66灼热丝-G</td> <td>11=PA66无卤灼热丝</td> </tr> <tr> <td>3=PA46</td> <td>12=PA66高灼热丝B</td> </tr> <tr> <td>4=PA6T</td> <td>13=PA66增强</td> </tr> <tr> <td>5=PA9T</td> <td></td> </tr> <tr> <td>6=PBTP</td> <td></td> </tr> <tr> <td>7=PPPO</td> <td></td> </tr> <tr> <td>8=LCP</td> <td></td> </tr> <tr> <td>9=UL</td> <td></td> </tr> </table> <p>壳体材料 Housing Material: 9=U=UL</p> <p>壳体材料特性 V2 UL阻燃等级标准(默认不注明) V0 UL阻燃等级标准 Z=灼热丝是按照(IEC60695/GB/T5169)标准, 符合GWIT750°C, GWFI960°C Housing Material Specialty: ZG=灼热丝加玻纤</p> <p>壳体颜色 OR=橙色 Orange P=粉色 Pink R=红色 Red VI=紫色 Violet Y=黄色 Yellow GY=灰色 Gray BK=黑色 Black G=绿色 Green BL=蓝色 Blue BR=棕色 Brown TR=透明白 Transparent W=白色 White EC=米白 ECRU Housing Color: TG=透明绿 Transparent Green 壳体材料2/3/4/5/8/12默认米色 壳体材料7默认黑色 壳体材料1/6/9/10/11默认白色 壳体材料13默认透明 (默认可为空)</p> <p>无卤标识 无卤产品加HF,有卤默认为空</p> <p>客户专用代码 Customer Special Code: 表示和常规件不同,用来代表某个客户</p> <p>备注:*部分内容只在产品标签中体现! 其他特殊要求位置不固定</p>	1=PA66	10=PC	2=PA66灼热丝-G	11=PA66无卤灼热丝	3=PA46	12=PA66高灼热丝B	4=PA6T	13=PA66增强	5=PA9T		6=PBTP		7=PPPO		8=LCP		9=UL		
1=PA66	10=PC																		
2=PA66灼热丝-G	11=PA66无卤灼热丝																		
3=PA46	12=PA66高灼热丝B																		
4=PA6T	13=PA66增强																		
5=PA9T																			
6=PBTP																			
7=PPPO																			
8=LCP																			
9=UL																			

PH料号说明 Description of item number

针座料号说明 WAFER

A 2001 -DHWVB 02 X2 -N* -C* - ** - ** - * - ** - ** - ** - ** - **

A: Wire to Board Connectors
 F: FFC/FPC Connectors
 I: IDC

系列号 Series Number

DB=防呆柱+全包
 B=全包 All inclusive
 DH=防呆柱+高背型
 特征类别(默认空)H=高背型 High box type
 Feature Category: D=固定防呆柱 Fixed

WV=直针座 Straight Angle
 WR=弯针座 Right Angle
 产品类别
 Product Category: SV=立贴式 V-SMT
 SR=卧贴式 R-SMT

同类别多型号序号(默认空)
 Same Series Different Type: B-ZZ

单列极数 The Pin Number of Single Row: 01~**
 多列列数 The Pin Number of Several Row: X2~X* (无则空)
 N为缺针,M为堵孔,*为序号(例N1.2.5)(无则空)
 C为插针样式不同(除打点、缺针外)*为序号(无则空)

打点样式
 Point Style:K为打点,K2.4表示在第2枚,第4枚上打点,默认打点无数字标注(无则空)

接触件材料 P=磷青铜 Phos.Bronze
 Contact Material: B=黄铜 Brass

0=素材酸洗 None
 1=镀镍 Nickel Plating
 2=镀亮锡 Tin Plating
 3=镀镍氟光锡 Matt Tin-Nickel Plating
 4=镀铅锡 Tin-Lead Plating
 5=镀铜锡 Tin-Cu Plating
 6=镀镍银 Silver-Nickel Plating
 7=镀镍金 Gold-Nickel Plating
 8=镀镍局部金 Half Gold-Nickel Plating
 9=镀亮锡局部金 Half Gold-Tin Plating
 表面处理
 Surface Processing: 10=镀镍亮锡 Tin-Nickel Plating (A5001默认B3)

1=PA66	6=PBT	11=PA66无卤灼热丝
2=PA66灼热丝-G	7=PPO	12=PA66高灼热丝B
3=PA46	8=LCP	13=PA66增强

壳体材料
 Housing Material: 4=PA6T 9=U=UL
 5=PA9T 10=PC

V2 UL阻燃等级标准(默认不注明)
 V0 UL阻燃等级标准
 Z=灼热丝是按照(IEC60695/GB/T5169)标准,
 符合GWIT750°C,GWFI960°C
 壳体材料特性
 Housing Material Specialty: ZG=灼热丝加玻纤

其他特殊要求
 Other Special Requirements: 如:SE(对固定力要求高5N)

OR=橙色 Orange	壳体材料2/3/4/5/8/12默认米色
P=粉色 Pink	壳体材料7默认黑色
R=红色 Red	壳体材料1/6/9/10/11默认白色
VI=紫色 Violet	壳体材料13默认透明 (默认可为空)
Y=黄色 Yellow	
GY=灰色 Gray	
BK=黑色 Black	
G=绿色 Green	
BL=蓝色 Blue	
BR=棕色 Brown	
TR=透明白 Transparent	
W=白色 White	
EC=米白 ECRU	
Housing Color: TG=透明绿 Transparent Green	

无卤标识
 无卤产品加HF,有卤默认为空

客户专用代码
 Customer Special Code: 表示和常规件不同,用来代表某个客户

备注:*部分内容只在产品标签中体现! 其他特殊要求位置不固定

PH料号说明 Description of item number



端子料号说明 TERMINAL

A 2001 N - T 2 2 A 30 5 P 2(*)Y-1-*(*)*

A: Wire to Board Connectors
 B: Board-in Connectors
 C: Wire to Wire Connectors
 F: FFC/FPC Connectors
 I: IDC
 D: Chain Terminals and Splices

系列号 Series Number

K=直形带锁 N=直形
 Z=旗形带锁 Q=旗形
 X=横插带锁 H=横插
 Y=叉形端子 J=插片
 R=环形端子 C=圆形
 G=接线端子
 W=鲨鱼齿端子
 特征类别(默认空) B=子弹形端子
 Feature Category: U=耳扒形端子

产品类别 Product Category: T=端子 Terminal

同类别多型号序号(默认空)
 Same Series Different Type: 1-9

同型号多尺寸序号(默认空)
 Same Type Different size: 1-9

适用线规(默认空) A=小脚 B=中脚
 Applicable Wire: C=高脚 D=大脚

料带厚度单位: mm X100 (0.3X100=30 默认空)

配合厚度单位: mm X10 (0.5X10=5 默认空)
 注: 所有<灰色>说明, 为D系列分类附加料号及说明!

Z=紫铜 Copper
 S=不锈钢 Stainless Steel
 P=磷青铜 Phos.Bronze
 材质 Material: B=黄铜 Brass

0=素材酸洗 None
 1=镀镍 Nickel Plating
 2=镀亮锡 Tin Plating
 3=镀镍光锡 Matt Tin-Nickel Plating
 4=镀铅锡 Tin-Lead Plating
 5=镀铜锡 Tin-Cu Plating
 6=镀镍银 Silver-Nickel Plating
 7=镀镍金 Gold-Nickel Plating
 8=镀镍局部金 Nickel-Gold
 9=镀亮锡局部金 Half Gold-Tin Plating
 10=镀镍亮锡 Tin-Nickel Plating

表面处理
 Surface processing:

镀层厚度(默认空)

包装说明: Y=有字、N=无字

包装方式: 0=散装(袋装)、1=盘装、4=八角盘装、5=编带装 (常规默认空)

包装数量: -**K: 客户定制数量,默认数量为空

客户专用代码
 Customer Special Code: 表示和常规件不同,用来代表某个客户

其他说明: 如(U)=UL、软、低铅等

备注:表面处理内容只在产品标签中体现! 其他特殊要求位置不固定

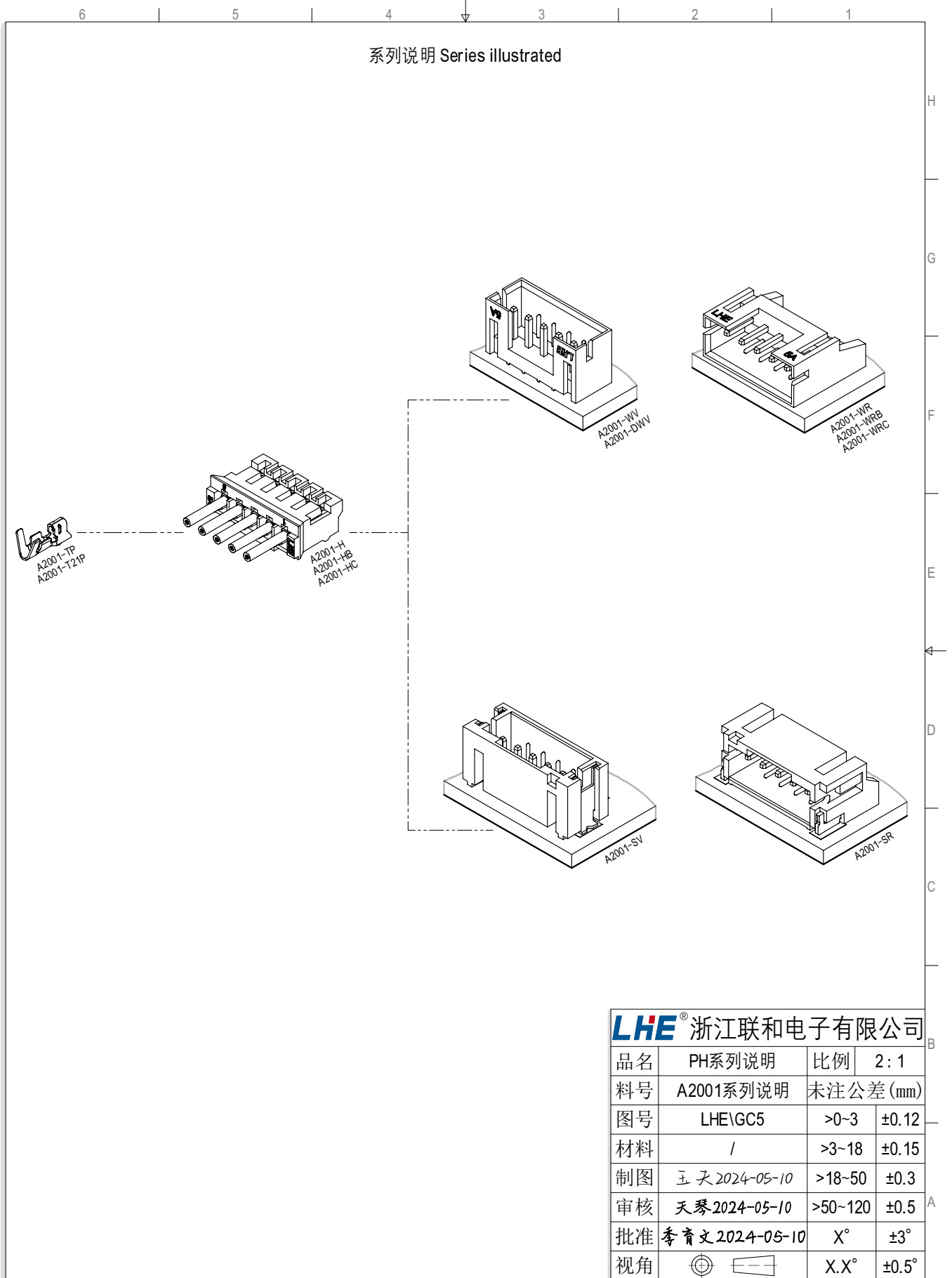
其它料号说明 OTHER

P 0001 - B

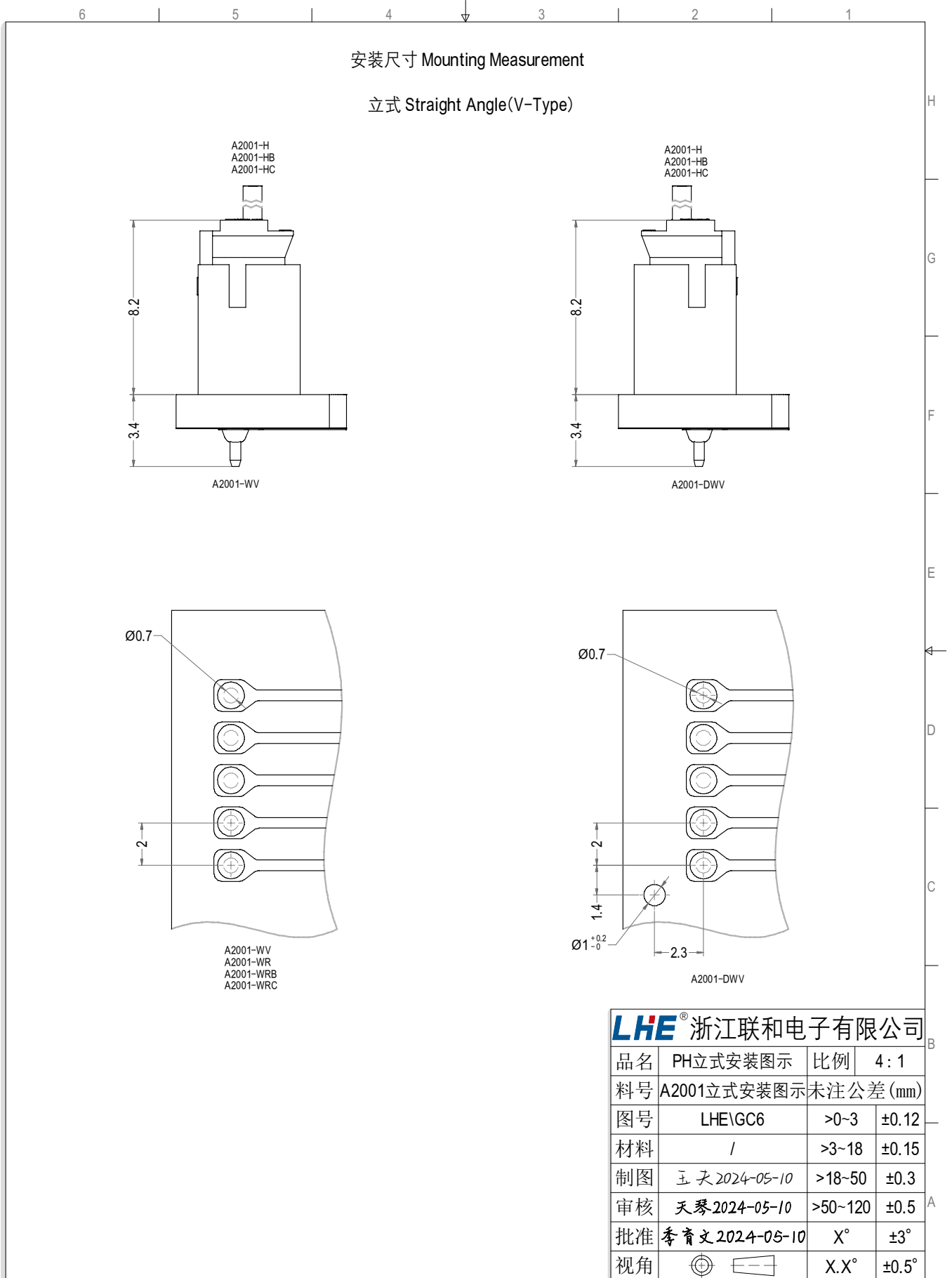
P: Other Types

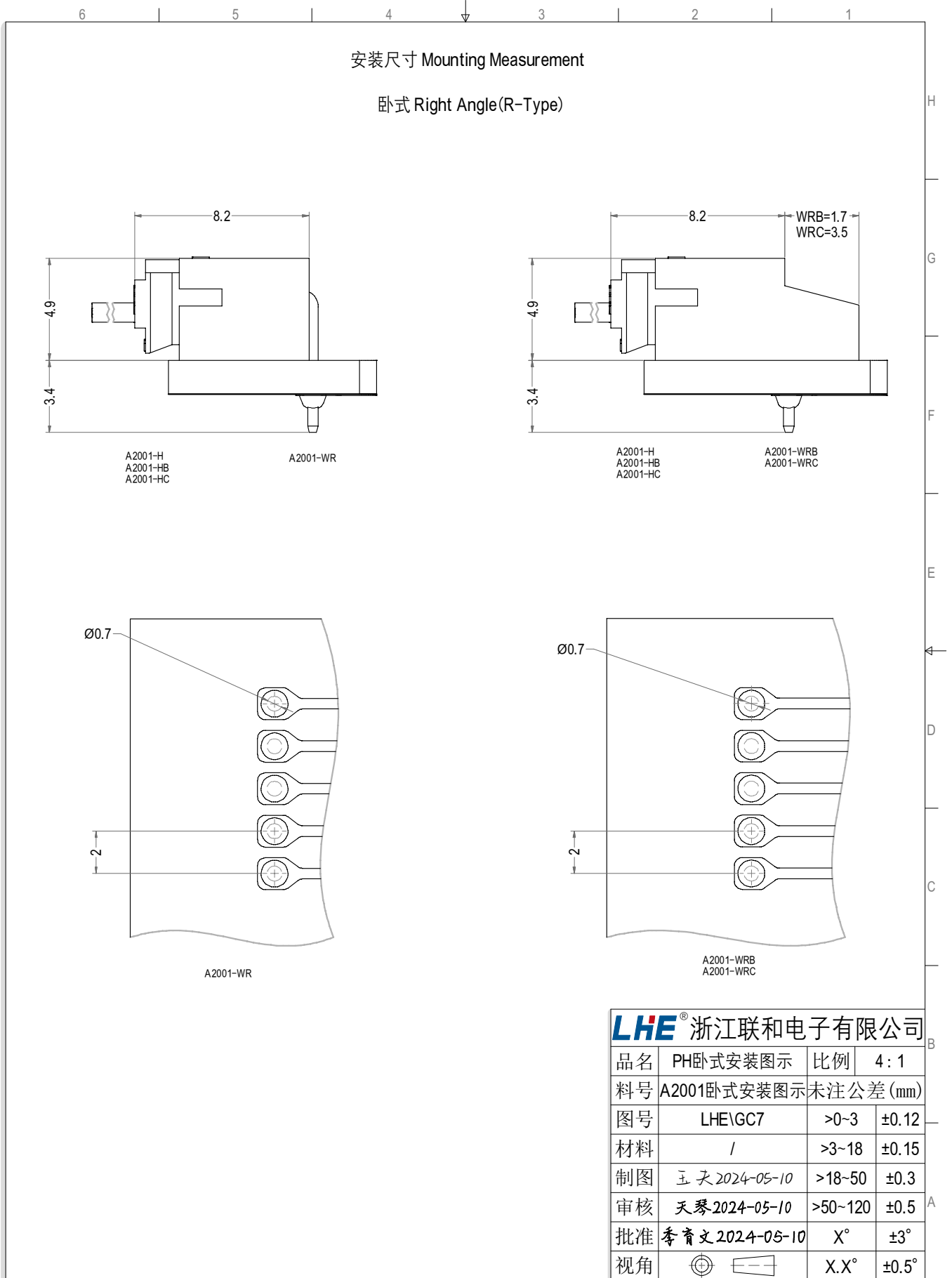
产品序号 Product Number

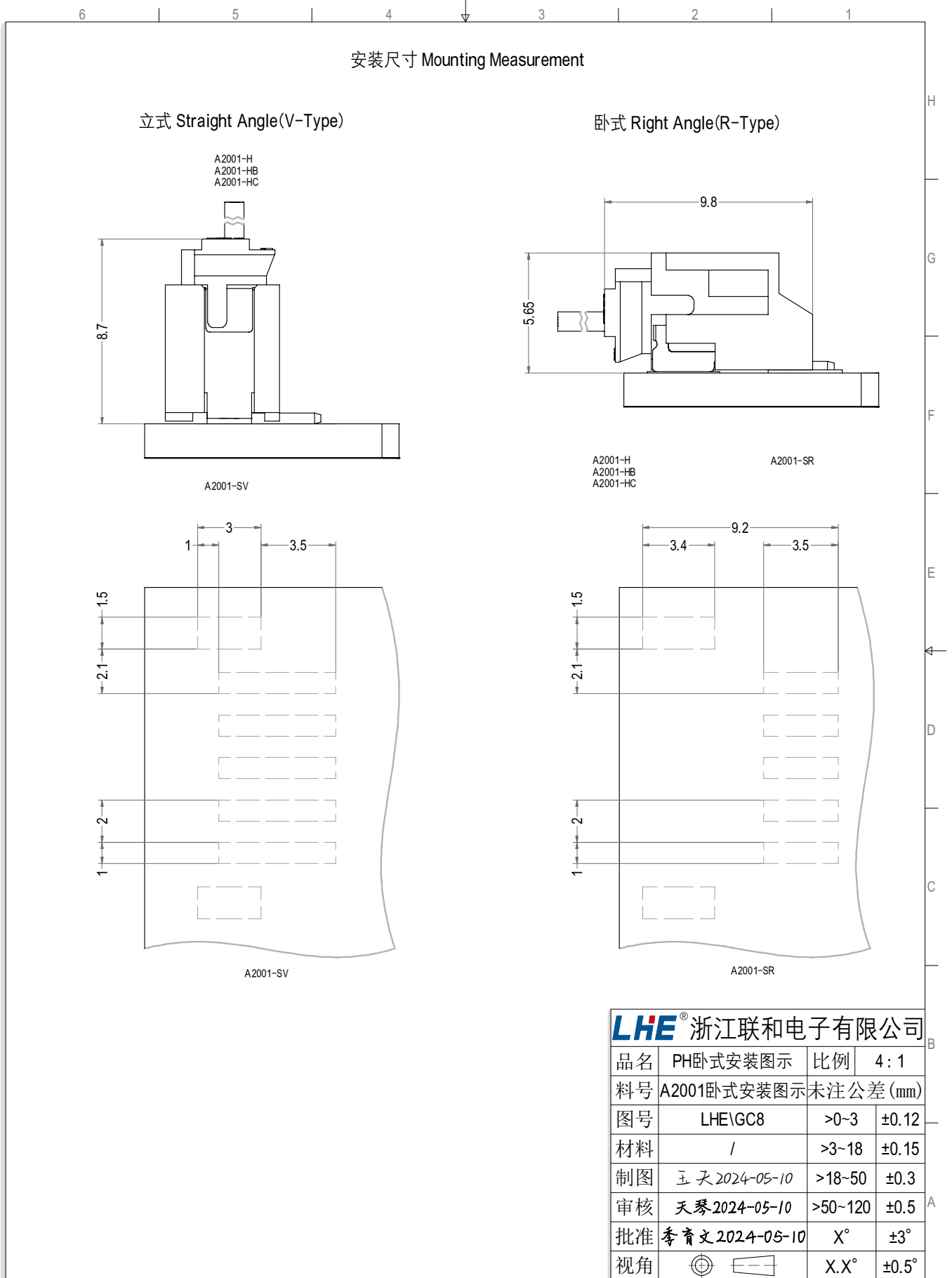
同型号序号 Same Series Different Type: B-Z
 (默认空)



LHE ® 浙江联和电子有限公司			
品名	PH系列说明	比例	2:1
料号	A2001系列说明	未注公差(mm)	
图号	LHE\GC5	>0~3	±0.12
材料	/	>3~18	±0.15
制图	王天 2024-05-10	>18~50	±0.3
审核	天琴 2024-05-10	>50~120	±0.5
批准	季育文 2024-05-10	X°	±3°
视角		X.X°	±0.5°



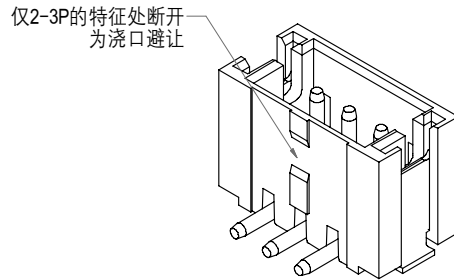
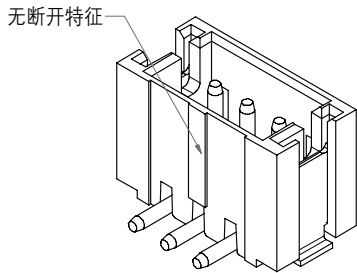
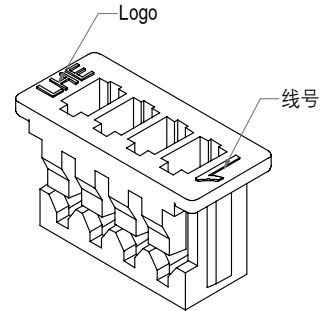
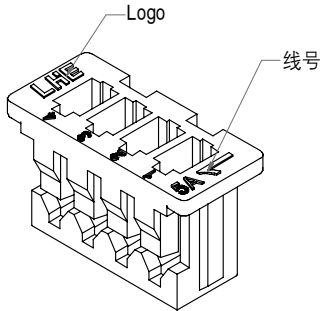
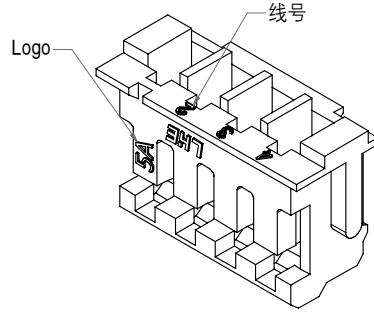
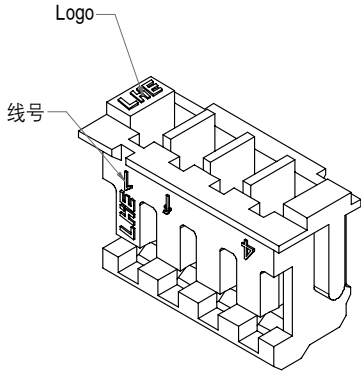




6 | 5 | 4 | 3 | 2 | 1

REV	修订记录	修改人	修订日期
1	增加产品特征示例	YF	2024/12/25

产品示例



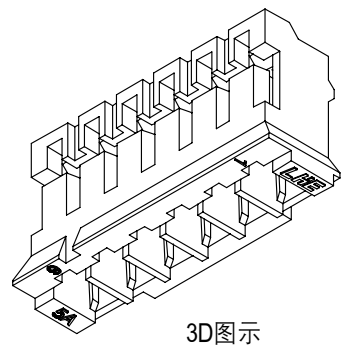
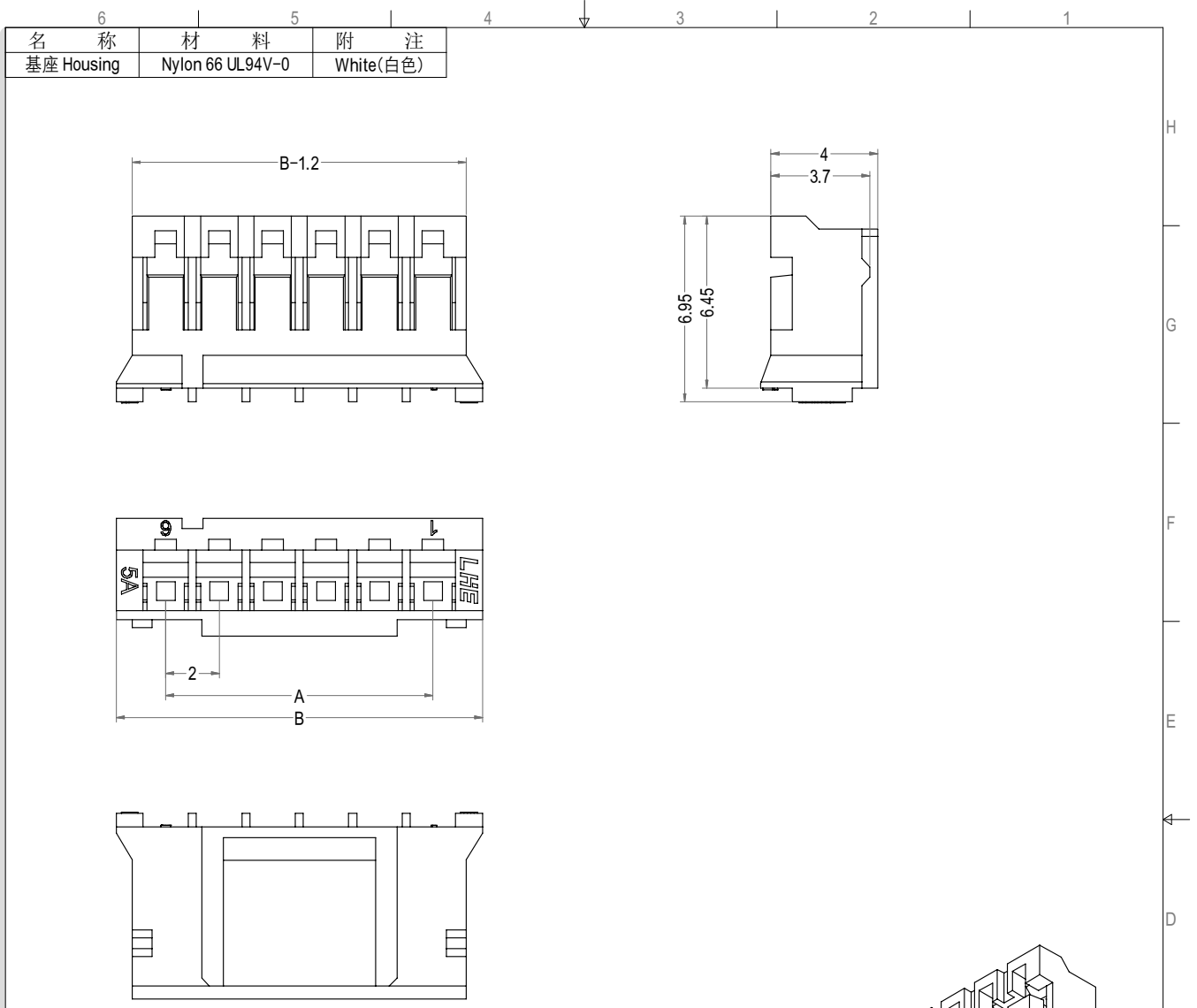
H
G
F
E
D
C
B
A

B
A

注意：
如：刻字，线号，注塑口等特征
且该特征不影响实际使用情况下位置不固定
恕不另行通告，详情请垂询本公司。

LHE® 浙江联和电子有限公司			
品名	示例说明	比例	4:1
料号	示例说明	未注公差(mm)	
图号	LHE\GC9	>0~3	±0.12
材料	/	>3~18	±0.15
制图	王天 2024-12-25	>18~50	±0.3
审核	天琴 2024-12-25	>50~120	±0.5
批准	李育文 2024-12-25	X°	±3°
视角		X.X°	±0.5°

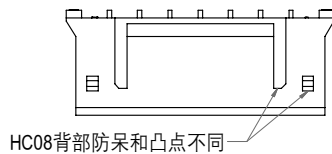
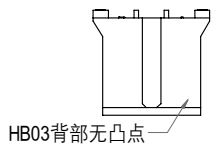
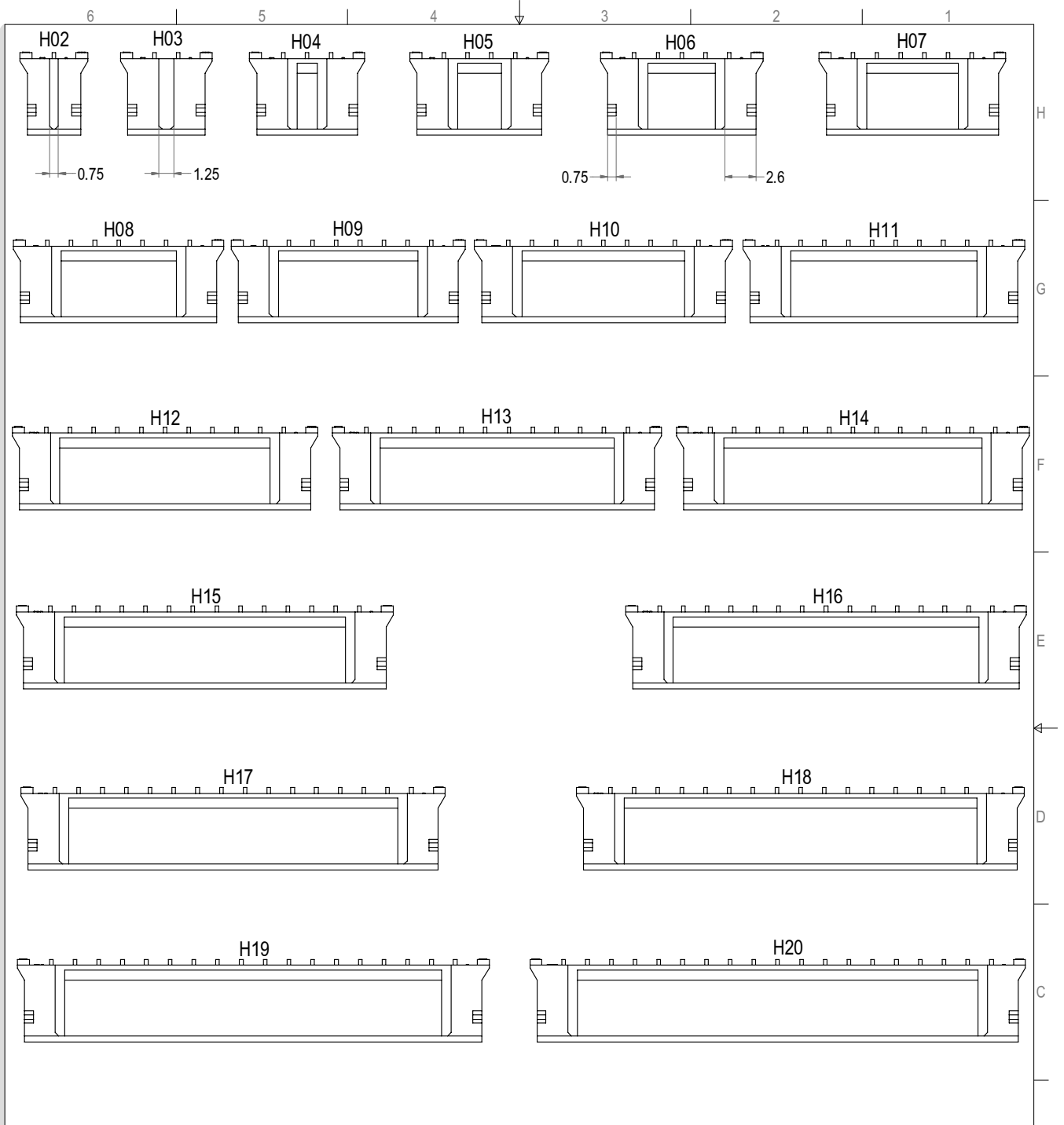
PH型连接器承认书图面



Poles	Part No.	Description	DIM=A	DIM=B
2	A2001-H02	PH-2Y	2.00	5.70
3	A2001-H03	PH-3Y	4.00	7.70
4	A2001-H04	PH-4Y	6.00	9.70
5	A2001-H05	PH-5Y	8.00	11.70
6	A2001-H06	PH-6Y	10.00	13.70
7	A2001-H07	PH-7Y	12.00	15.70
8	A2001-H08	PH-8Y	14.00	17.70
9	A2001-H09	PH-9Y	16.00	19.70
10	A2001-H10	PH-10Y	18.00	21.70
11	A2001-H11	PH-11Y	20.00	23.70
12	A2001-H12	PH-12Y	22.00	25.70
13	A2001-H13	PH-13Y	24.00	27.70
14	A2001-H14	PH-14Y	26.00	29.70
15	A2001-H15	PH-15Y	28.00	31.70
16	A2001-H16	PH-16Y	30.00	33.70
17	A2001-H17	PH-17Y	32.00	35.70
18	A2001-H18	PH-18Y	34.00	37.70
19	A2001-H19	PH-19Y	36.00	39.70
20	A2001-H20	PH-20Y	38.00	41.70
3	A2001-HB03	PH-3YB	4.00	7.70
8	A2001-HC08	PH-8YC	14.00	17.70

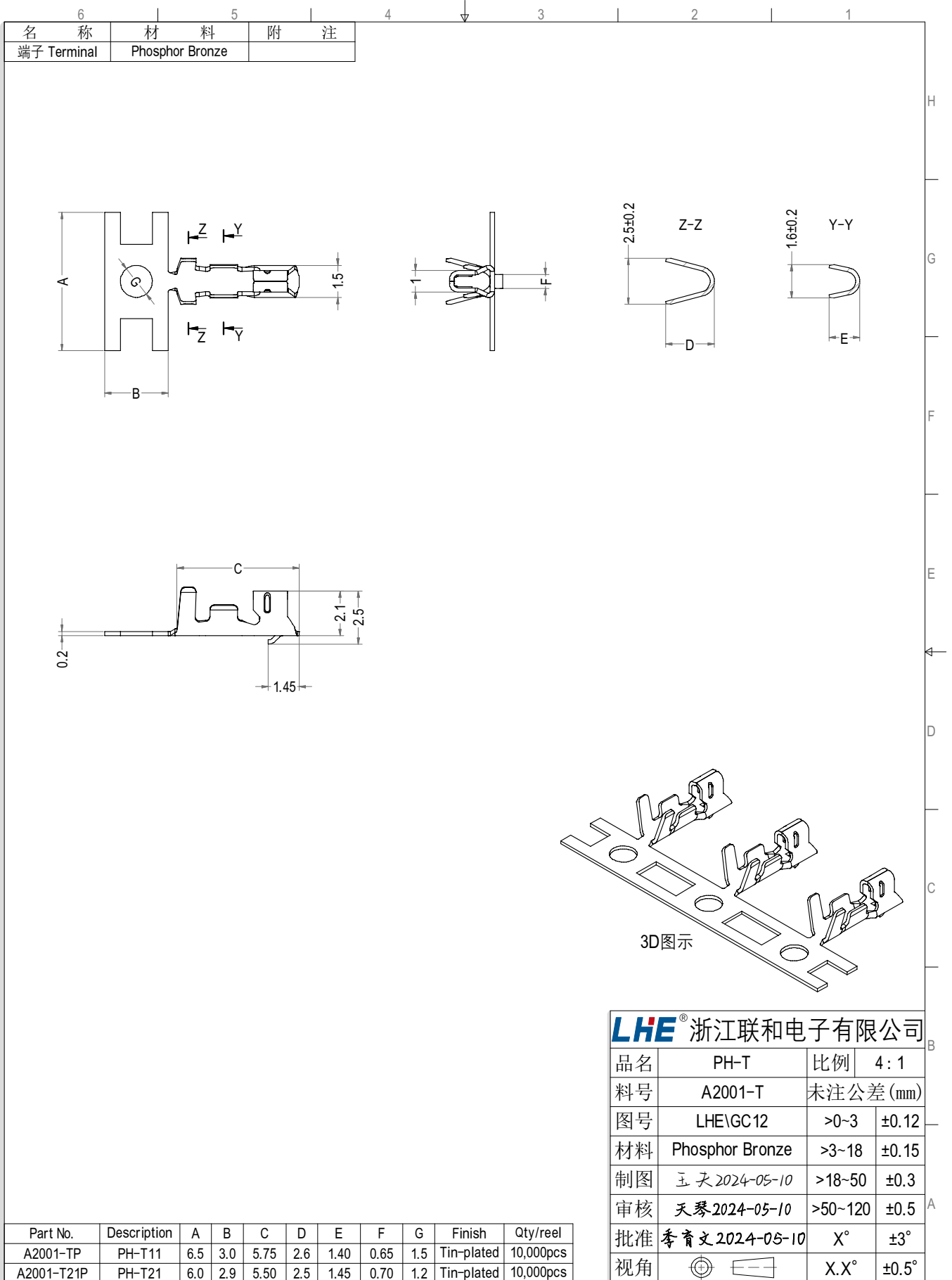
LHE 浙江联和电子有限公司			
品名	PH-Y	比例	4:1
料号	A2001-H	未注公差(mm)	
图号	LHE\GC10	>0~3	±0.12
材料	Nylon 66 UL94V-0	>3~18	±0.15
制图	王天 2024-05-10	>18~50	±0.3
审核	天琴 2024-05-10	>50~120	±0.5
批准	季育文 2024-05-10	X°	±3°
视角		X.X°	±0.5°

PH型连接器承认书图面



LHE 浙江联和电子有限公司			
品名	胶壳详细图	比例	2:1
料号	A2001-H	未注公差(mm)	
图号	LHE\GC11	>0~3	±0.12
材料	Nylon 66 UL94V-0	>3~18	±0.15
制图	玉天 2024-05-10	>18~50	±0.3
审核	天琴 2024-05-10	>50~120	±0.5
批准	季育文 2024-05-10	X°	±3°
视角		X.X°	±0.5°

PH型连接器承认书图面



名称	材料	附注
端子 Terminal	Phosphor Bronze	

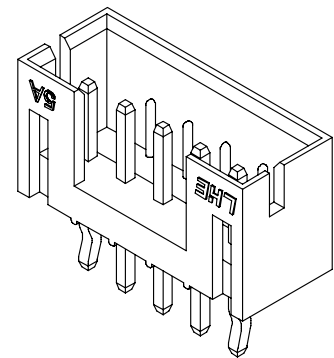
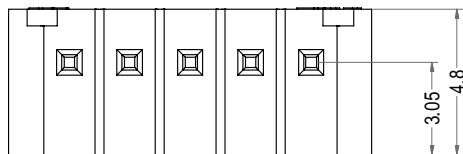
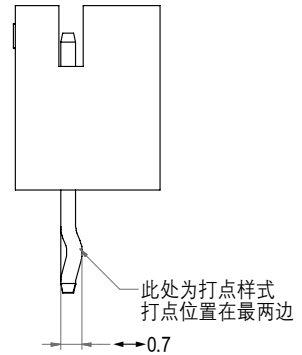
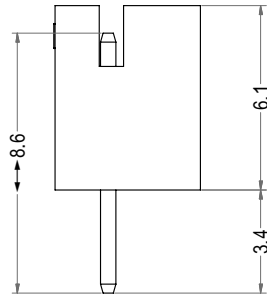
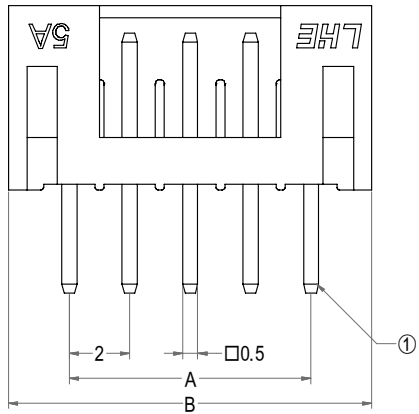
LHE® 浙江联和电子有限公司			
品名	PH-T	比例	4:1
料号	A2001-T	未注公差(mm)	
图号	LHE\GC12	>0~3	±0.12
材料	Phosphor Bronze	>3~18	±0.15
制图	王天 2024-05-10	>18~50	±0.3
审核	天琴 2024-05-10	>50~120	±0.5
批准	季育文 2024-05-10	X°	±3°
视角		X.X°	±0.5°

Part No.	Description	A	B	C	D	E	F	G	Finish	Qty/reel
A2001-TP	PH-T11	6.5	3.0	5.75	2.6	1.40	0.65	1.5	Tin-plated	10,000pcs
A2001-T21P	PH-T21	6.0	2.9	5.50	2.5	1.45	0.70	1.2	Tin-plated	10,000pcs

PH型连接器承认书图面



名称	材料	数量	附注
基座 Housing	Nylon 66 UL94V-0	1	White(白色)
针 Wafer	黄铜镀锡 Brass Tin	N	



3D图示(打点样式)

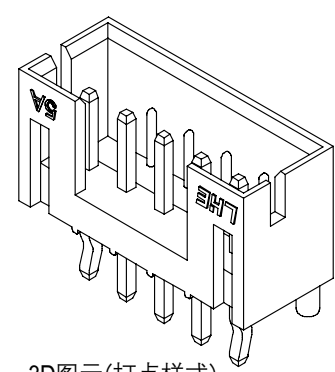
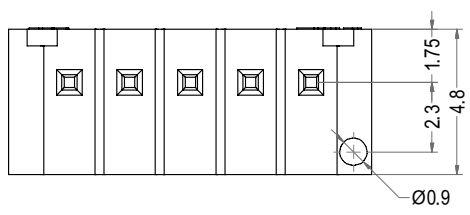
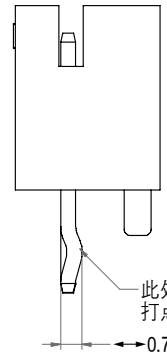
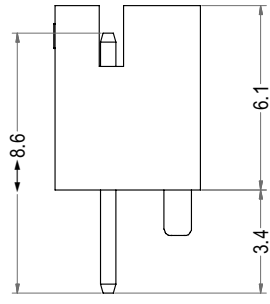
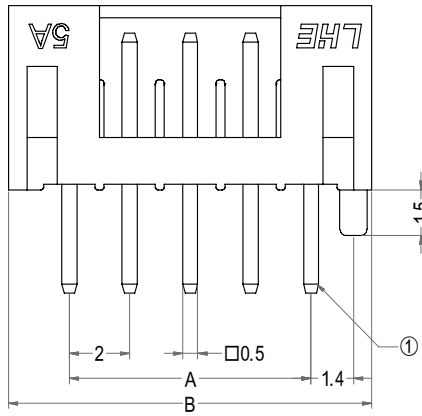
Poles	Part No.1	Description 1	Part No.2	Description 2	DIM=A	DIM=B
2	A2001-WV02-K	PH-2A打点	A2001-WV02	PH-2A	2.00	6.00
3	A2001-WV03-K	PH-3A打点	A2001-WV03	PH-3A	4.00	8.00
4	A2001-WV04-K	PH-4A打点	A2001-WV04	PH-4A	6.00	10.00
5	A2001-WV05-K	PH-5A打点	A2001-WV05	PH-5A	8.00	12.00
6	A2001-WV06-K	PH-6A打点	A2001-WV06	PH-6A	10.00	14.00
7	A2001-WV07-K	PH-7A打点	A2001-WV07	PH-7A	12.00	16.00
8	A2001-WV08-K	PH-8A打点	A2001-WV08	PH-8A	14.00	18.00
9	A2001-WV09-K	PH-9A打点	A2001-WV09	PH-9A	16.00	20.00
10	A2001-WV10-K	PH-10A打点	A2001-WV10	PH-10A	18.00	22.00
11	A2001-WV11-K	PH-11A打点	A2001-WV11	PH-11A	20.00	24.00
12	A2001-WV12-K	PH-12A打点	A2001-WV12	PH-12A	22.00	26.00
13	A2001-WV13-K	PH-13A打点	A2001-WV13	PH-13A	24.00	28.00
14	A2001-WV14-K	PH-14A打点	A2001-WV14	PH-14A	26.00	30.00
15	A2001-WV15-K	PH-15A打点	A2001-WV15	PH-15A	28.00	32.00
16	A2001-WV16-K	PH-16A打点	A2001-WV16	PH-16A	30.00	34.00
17	A2001-WV17-K	PH-17A打点	A2001-WV17	PH-17A	32.00	36.00
18	A2001-WV18-K	PH-18A打点	A2001-WV18	PH-18A	34.00	38.00
19	A2001-WV19-K	PH-19A打点	A2001-WV19	PH-19A	36.00	40.00
20	A2001-WV20-K	PH-20A打点	A2001-WV20	PH-20A	38.00	42.00

LHE® 浙江联和电子有限公司			
品名	PH-A	比例	4:1
料号	A2001-WV	未注公差(mm)	
图号	LHE\GC13	>0-3	±0.12
材料	Nylon 66 UL94V-0	>3-18	±0.15
制图	王天 2024-05-10	>18-50	±0.3
审核	天琴 2024-05-10	>50-120	±0.5
批准	季育文 2024-05-10	X°	±3°
视角		X.X°	±0.5°

PH型连接器承认书图面



6	5	4	
名称	材料	数量	附注
基座 Housing	Nylon 66 UL94V-0	1	White(白色)
针 Wafer	黄铜镀锡 Brass Tin	N	

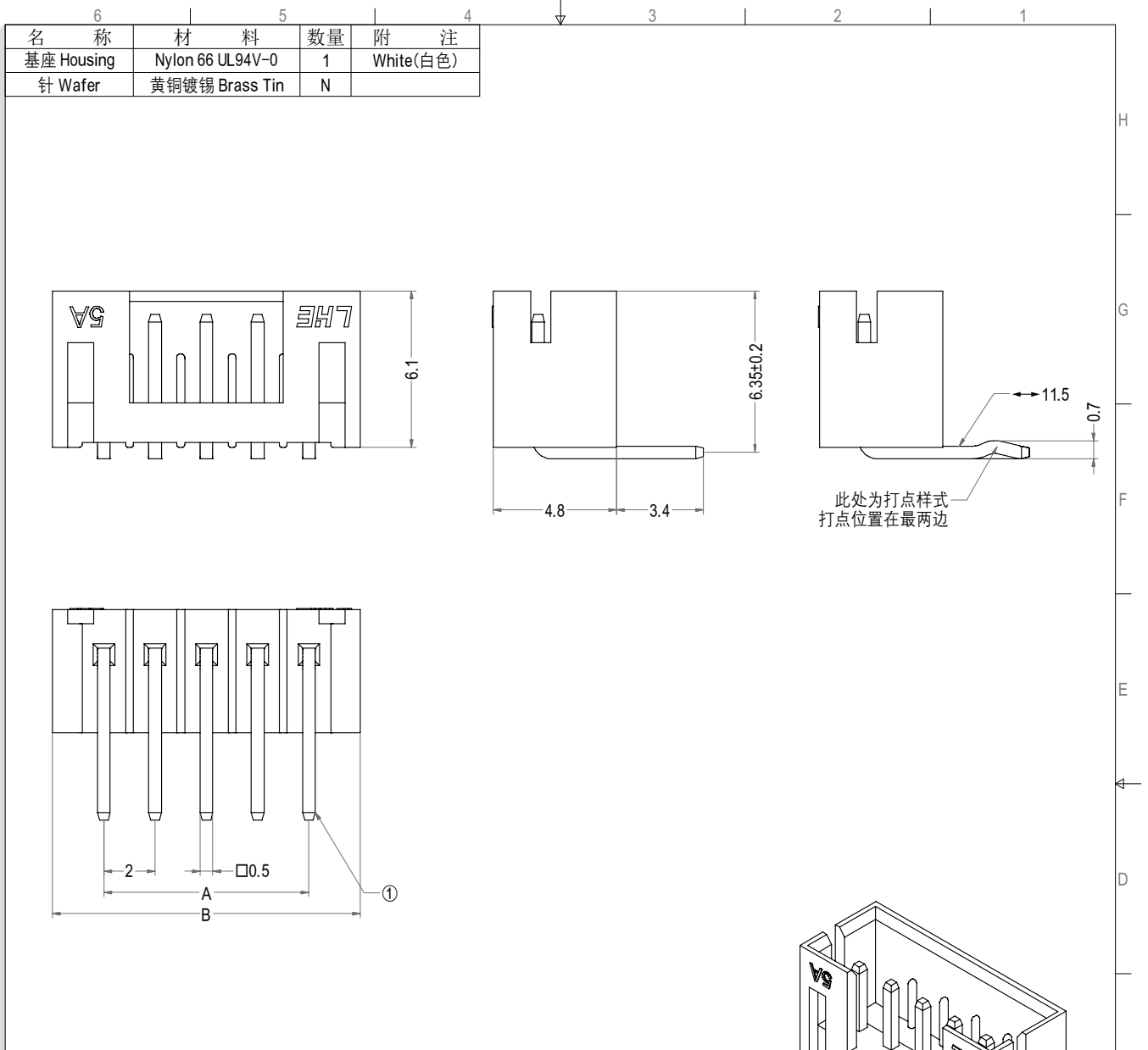


3D图示(打点样式)

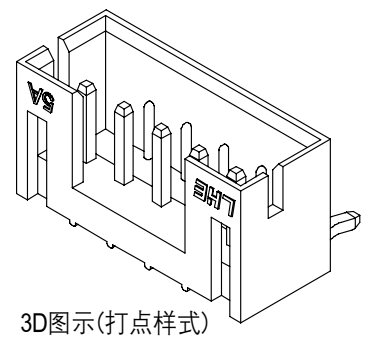
Poles	Part No.1	Description 1	Part No.2	Description 2	DIM=A	DIM=B
2	A2001-DWV02-K	PH-2AD打点	A2001-DWV02	PH-2AD	2.00	6.00
3	A2001-DWV03-K	PH-3AD打点	A2001-DWV03	PH-3AD	4.00	8.00
4	A2001-DWV04-K	PH-4AD打点	A2001-DWV04	PH-4AD	6.00	10.00
5	A2001-DWV05-K	PH-5AD打点	A2001-DWV05	PH-5AD	8.00	12.00
6	A2001-DWV06-K	PH-6AD打点	A2001-DWV06	PH-6AD	10.00	14.00
7	A2001-DWV07-K	PH-7AD打点	A2001-DWV07	PH-7AD	12.00	16.00
8	A2001-DWV08-K	PH-8AD打点	A2001-DWV08	PH-8AD	14.00	18.00
9	A2001-DWV09-K	PH-9AD打点	A2001-DWV09	PH-9AD	16.00	20.00
10	A2001-DWV10-K	PH-10AD打点	A2001-DWV10	PH-10AD	18.00	22.00
11	A2001-DWV11-K	PH-11AD打点	A2001-DWV11	PH-11AD	20.00	24.00
12	A2001-DWV12-K	PH-12AD打点	A2001-DWV12	PH-12AD	22.00	26.00
13	A2001-DWV13-K	PH-13AD打点	A2001-DWV13	PH-13AD	24.00	28.00
14	A2001-DWV14-K	PH-14AD打点	A2001-DWV14	PH-14AD	26.00	30.00
15	A2001-DWV15-K	PH-15AD打点	A2001-DWV15	PH-15AD	28.00	32.00
16	A2001-DWV16-K	PH-16AD打点	A2001-DWV16	PH-16AD	30.00	34.00
17	A2001-DWV17-K	PH-17AD打点	A2001-DWV17	PH-17AD	32.00	36.00
18	A2001-DWV18-K	PH-18AD打点	A2001-DWV18	PH-18AD	34.00	38.00
19	A2001-DWV19-K	PH-19AD打点	A2001-DWV19	PH-19AD	36.00	40.00
20	A2001-DWV20-K	PH-20AD打点	A2001-DWV20	PH-20AD	38.00	42.00

LHE® 浙江联和电子有限公司			
品名	PH-AD	比例	4:1
料号	A2001-DWV	未注公差(mm)	
图号	LHE\GC14	>0~3	±0.12
材料	Nylon 66 UL94V-0	>3~18	±0.15
制图	王天 2024-05-10	>18~50	±0.3
审核	天琴 2024-05-10	>50~120	±0.5
批准	季育文 2024-05-10	X°	±3°
视角		X.X°	±0.5°

PH型连接器承认书图面



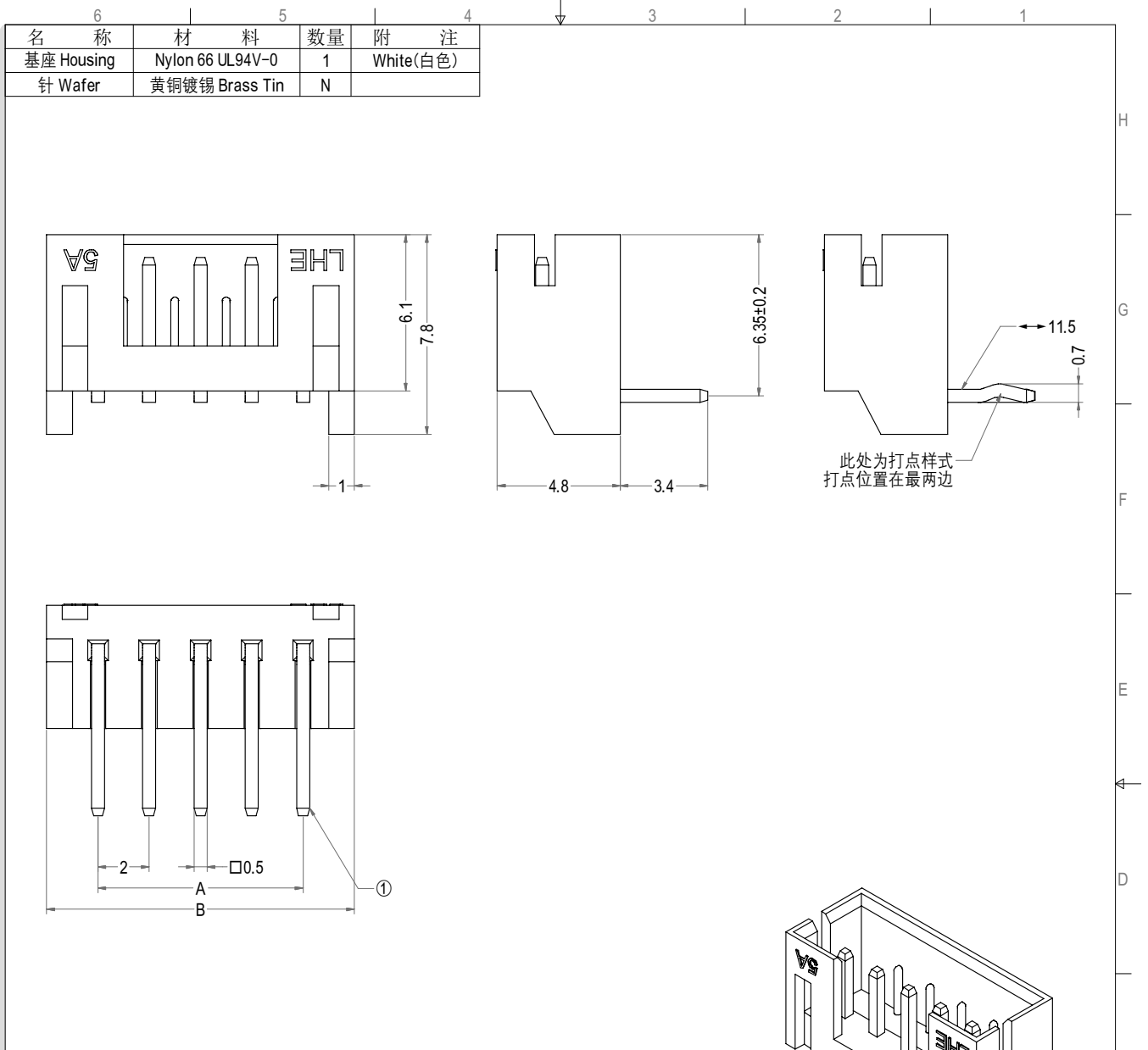
Poles	Part No.1	Description 1	Part No.2	Description 2	DIM=A	DIM=B
2	A2001-WR02-K	PH-2AW打点	A2001-WR02	PH-2AW	2.00	6.00
3	A2001-WR03-K	PH-3AW打点	A2001-WR03	PH-3AW	4.00	8.00
4	A2001-WR04-K	PH-4AW打点	A2001-WR04	PH-4AW	6.00	10.00
5	A2001-WR05-K	PH-5AW打点	A2001-WR05	PH-5AW	8.00	12.00
6	A2001-WR06-K	PH-6AW打点	A2001-WR06	PH-6AW	10.00	14.00
7	A2001-WR07-K	PH-7AW打点	A2001-WR07	PH-7AW	12.00	16.00
8	A2001-WR08-K	PH-8AW打点	A2001-WR08	PH-8AW	14.00	18.00
9	A2001-WR09-K	PH-9AW打点	A2001-WR09	PH-9AW	16.00	20.00
10	A2001-WR10-K	PH-10AW打点	A2001-WR10	PH-10AW	18.00	22.00
11	A2001-WR11-K	PH-11AW打点	A2001-WR11	PH-11AW	20.00	24.00
12	A2001-WR12-K	PH-12AW打点	A2001-WR12	PH-12AW	22.00	26.00
13	A2001-WR13-K	PH-13AW打点	A2001-WR13	PH-13AW	24.00	28.00
14	A2001-WR14-K	PH-14AW打点	A2001-WR14	PH-14AW	26.00	30.00
15	A2001-WR15-K	PH-15AW打点	A2001-WR15	PH-15AW	28.00	32.00
16	A2001-WR16-K	PH-16AW打点	A2001-WR16	PH-16AW	30.00	34.00
17	A2001-WR17-K	PH-17AW打点	A2001-WR17	PH-17AW	32.00	36.00
18	A2001-WR18-K	PH-18AW打点	A2001-WR18	PH-18AW	34.00	38.00
19	A2001-WR19-K	PH-19AW打点	A2001-WR19	PH-19AW	36.00	40.00
20	A2001-WR20-K	PH-20AW打点	A2001-WR20	PH-20AW	38.00	42.00



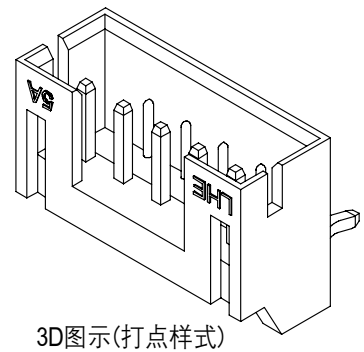
3D图示(打点样式)

LHE® 浙江联和电子有限公司			
品名	PH-AW	比例	4:1
料号	A2001-WR	未注公差(mm)	
图号	LHE\GC15	>0~3	±0.12
材料	Nylon 66 UL94V-0	>3~18	±0.15
制图	王天 2024-05-10	>18~50	±0.3
审核	天琴 2024-05-10	>50~120	±0.5
批准	季育文 2024-05-10	X°	±3°
视角		X.X°	±0.5°

PH型连接器承认书图面

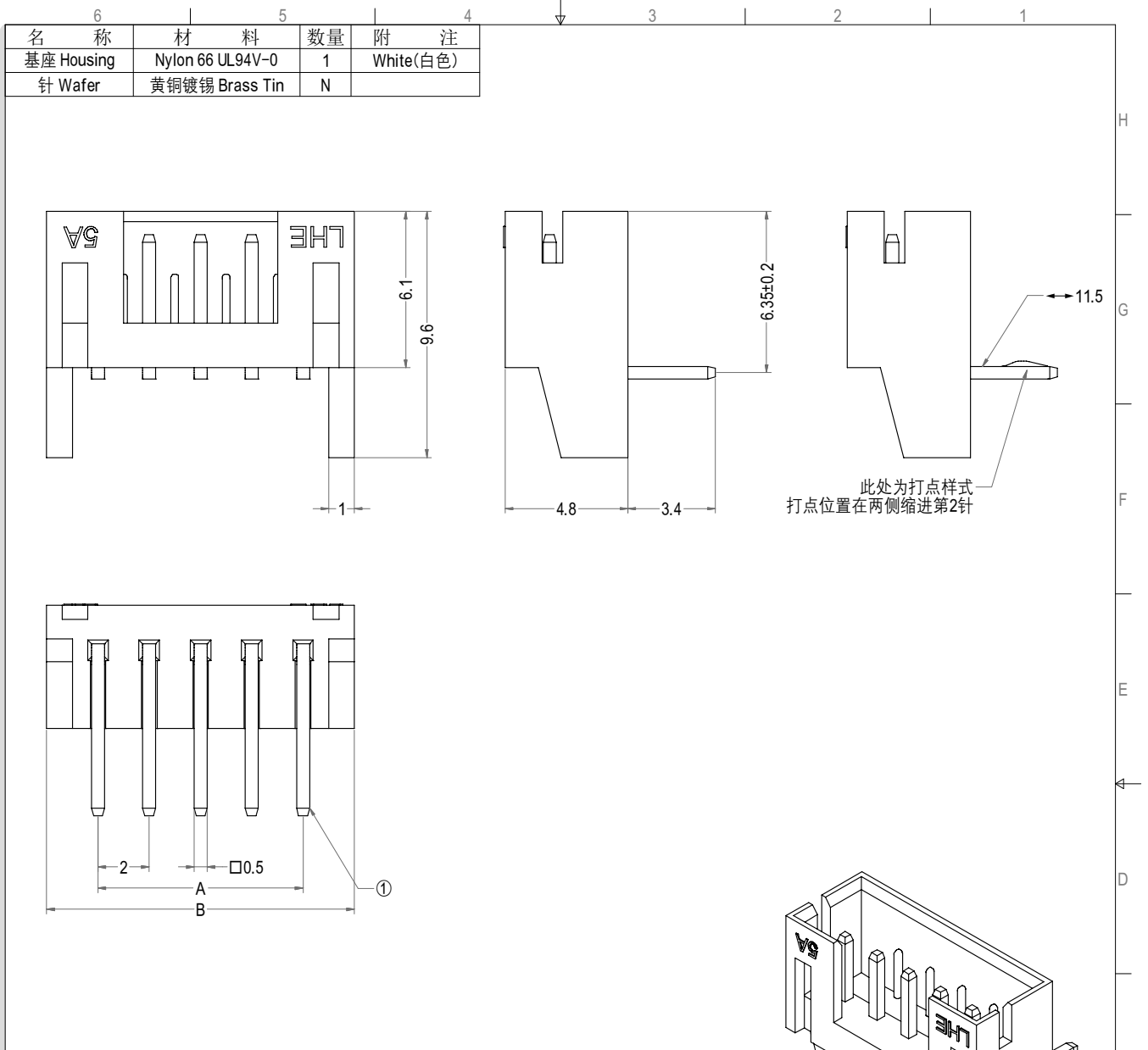


Poles	Part No.1	Description 1	Part No.2	Description 2	DIM=A	DIM=B
2	A2001-WRB02-K	PH-2AWD打点	A2001-WRB02	PH-2AWD	2.00	6.00
3	A2001-WRB03-K	PH-3AWD打点	A2001-WRB03	PH-3AWD	4.00	8.00
4	A2001-WRB04-K	PH-4AWD打点	A2001-WRB04	PH-4AWD	6.00	10.00
5	A2001-WRB05-K	PH-5AWD打点	A2001-WRB05	PH-5AWD	8.00	12.00
6	A2001-WRB06-K	PH-6AWD打点	A2001-WRB06	PH-6AWD	10.00	14.00
7	A2001-WRB07-K	PH-7AWD打点	A2001-WRB07	PH-7AWD	12.00	16.00
8	A2001-WRB08-K	PH-8AWD打点	A2001-WRB08	PH-8AWD	14.00	18.00
9	A2001-WRB09-K	PH-9AWD打点	A2001-WRB09	PH-9AWD	16.00	20.00
10	A2001-WRB10-K	PH-10AWD打点	A2001-WRB10	PH-10AWD	18.00	22.00
11	A2001-WRB11-K	PH-11AWD打点	A2001-WRB11	PH-11AWD	20.00	24.00
12	A2001-WRB12-K	PH-12AWD打点	A2001-WRB12	PH-12AWD	22.00	26.00
13	A2001-WRB13-K	PH-13AWD打点	A2001-WRB13	PH-13AWD	24.00	28.00
14	A2001-WRB14-K	PH-14AWD打点	A2001-WRB14	PH-14AWD	26.00	30.00
15	A2001-WRB15-K	PH-15AWD打点	A2001-WRB15	PH-15AWD	28.00	32.00
16	A2001-WRB16-K	PH-16AWD打点	A2001-WRB16	PH-16AWD	30.00	34.00
17	A2001-WRB17-K	PH-17AWD打点	A2001-WRB17	PH-17AWD	32.00	36.00
18	A2001-WRB18-K	PH-18AWD打点	A2001-WRB18	PH-18AWD	34.00	38.00
19	A2001-WRB19-K	PH-19AWD打点	A2001-WRB19	PH-19AWD	36.00	40.00
20	A2001-WRB20-K	PH-20AWD打点	A2001-WRB20	PH-20AWD	38.00	42.00



LHE® 浙江联和电子有限公司			
品名	PH-AWD	比例	4:1
料号	A2001-WRB	未注公差(mm)	
图号	LHE\GC16	>0~3	±0.12
材料	Nylon 66 UL94V-0	>3~18	±0.15
制图	王天 2024-05-10	>18~50	±0.3
审核	天琴 2024-05-10	>50~120	±0.5
批准	季育文 2024-05-10	X°	±3°
视角		X.X°	±0.5°

PH型连接器承认书图面



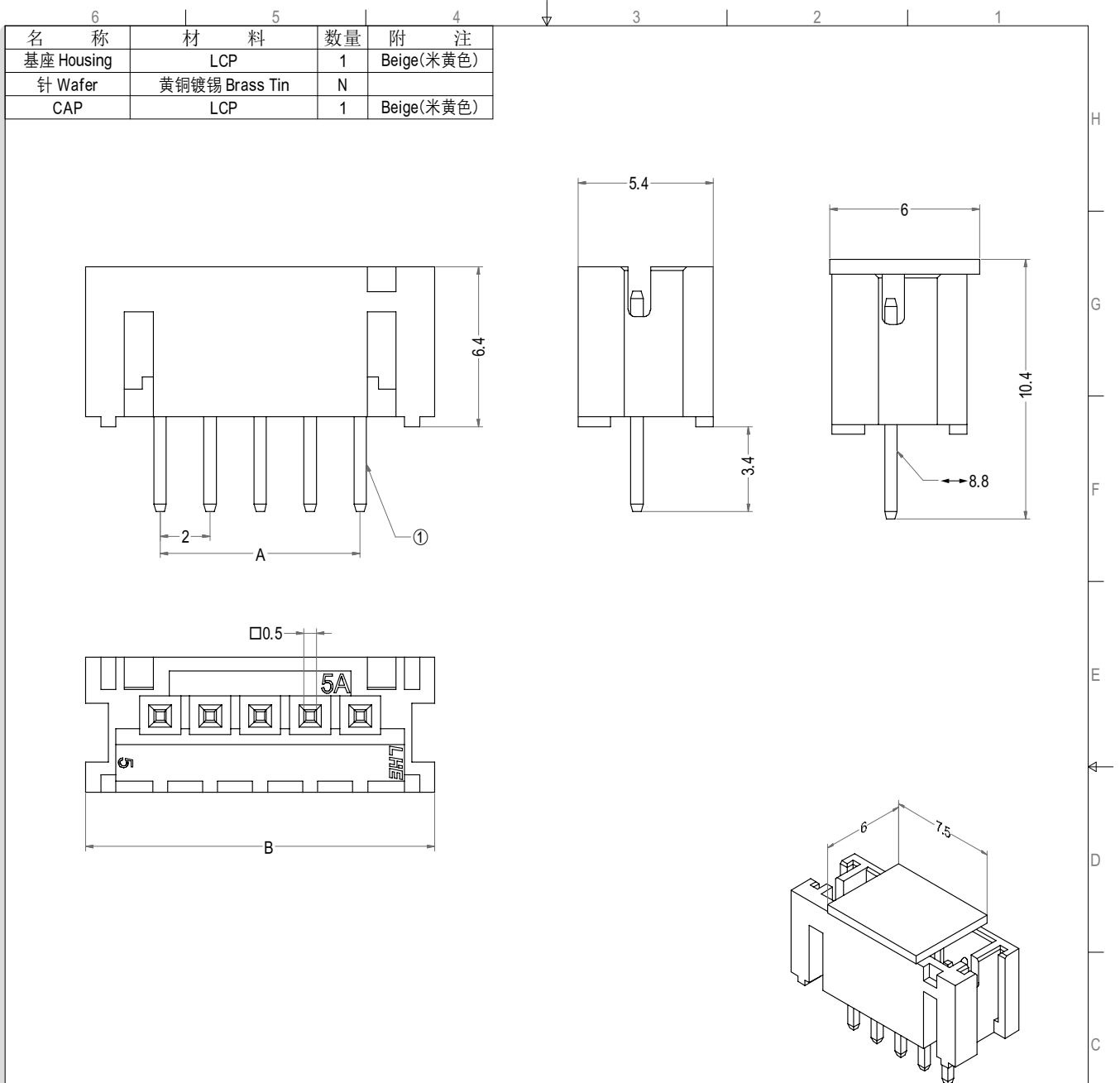
此处为打点样式
打点位置在两侧缩进第2针

3D图示(打点样式)

Poles	Part No.1	Description 1	Part No.2	Description 2	DIM=A	DIM=B
2	A2001-WRC02-K	PH-2AWD长翅打点	A2001-WRC02	PH-2AWD长翅	2.00	6.00
3	A2001-WRC03-K	PH-3AWD长翅打点	A2001-WRC03	PH-3AWD长翅	4.00	8.00
4	A2001-WRC04-K	PH-4AWD长翅打点	A2001-WRC04	PH-4AWD长翅	6.00	10.00
5	A2001-WRC05-K	PH-5AWD长翅打点	A2001-WRC05	PH-5AWD长翅	8.00	12.00
6	A2001-WRC06-K	PH-6AWD长翅打点	A2001-WRC06	PH-6AWD长翅	10.00	14.00
7	A2001-WRC07-K	PH-7AWD长翅打点	A2001-WRC07	PH-7AWD长翅	12.00	16.00
8	A2001-WRC08-K	PH-8AWD长翅打点	A2001-WRC08	PH-8AWD长翅	14.00	18.00
9	A2001-WRC09-K	PH-9AWD长翅打点	A2001-WRC09	PH-9AWD长翅	16.00	20.00
10	A2001-WRC10-K	PH-10AWD长翅打点	A2001-WRC10	PH-10AWD长翅	18.00	22.00
11	A2001-WRC11-K	PH-11AWD长翅打点	A2001-WRC11	PH-11AWD长翅	20.00	24.00
12	A2001-WRC12-K	PH-12AWD长翅打点	A2001-WRC12	PH-12AWD长翅	22.00	26.00
13	A2001-WRC13-K	PH-13AWD长翅打点	A2001-WRC13	PH-13AWD长翅	24.00	28.00
14	A2001-WRC14-K	PH-14AWD长翅打点	A2001-WRC14	PH-14AWD长翅	26.00	30.00
15	A2001-WRC15-K	PH-15AWD长翅打点	A2001-WRC15	PH-15AWD长翅	28.00	32.00
16	A2001-WRC16-K	PH-16AWD长翅打点	A2001-WRC16	PH-16AWD长翅	30.00	34.00
17	A2001-WRC17-K	PH-17AWD长翅打点	A2001-WRC17	PH-17AWD长翅	32.00	36.00
18	A2001-WRC18-K	PH-18AWD长翅打点	A2001-WRC18	PH-18AWD长翅	34.00	38.00
19	A2001-WRC19-K	PH-19AWD长翅打点	A2001-WRC19	PH-19AWD长翅	36.00	40.00
20	A2001-WRC20-K	PH-20AWD长翅打点	A2001-WRC20	PH-20AWD长翅	38.00	42.00

LHE 浙江联和电子有限公司			
品名	PH-AWD长翅	比例	4:1
料号	A2001-WRC	未注公差(mm)	
图号	LHE\GC17	>0~3	±0.12
材料	Nylon 66 UL94V-0	>3~18	±0.15
制图	王天 2024-05-10	>18~50	±0.3
审核	天琴 2024-05-10	>50~120	±0.5
批准	季育文 2024-05-10	X°	±3°
视角		X.X°	±0.5°

PH型连接器承认书图面



Poles	Part No.	Description	DIM=A	DIM=B
2	A2001-SV02-W	PH-2AB-W	2.00	7.95
3	A2001-SV03-W	PH-3AB-W	4.00	9.95
4	A2001-SV04-W	PH-4AB-W	6.00	11.95
5	A2001-SV05-W	PH-5AB-W	8.00	13.95
6	A2001-SV06-W	PH-6AB-W	10.00	15.95
7	A2001-SV07-W	PH-7AB-W	12.00	17.95
8	A2001-SV08-W	PH-8AB-W	14.00	19.95
9	A2001-SV09-W	PH-9AB-W	16.00	21.95
10	A2001-SV10-W	PH-10AB-W	18.00	23.95
11	A2001-SV11-W	PH-11AB-W	20.00	25.95
12	A2001-SV12-W	PH-12AB-W	22.00	27.95
13	A2001-SV13-W	PH-13AB-W	24.00	29.95
14	A2001-SV14-W	PH-14AB-W	26.00	31.95
15	A2001-SV15-W	PH-15AB-W	28.00	33.95
16	A2001-SV16-W	PH-16AB-W	30.00	35.95
17	A2001-SV17-W	PH-17AB-W	32.00	37.95
18	A2001-SV18-W	PH-18AB-W	34.00	39.95

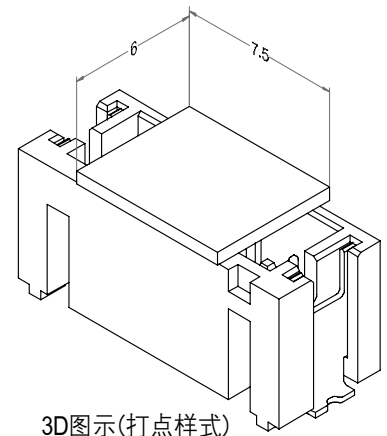
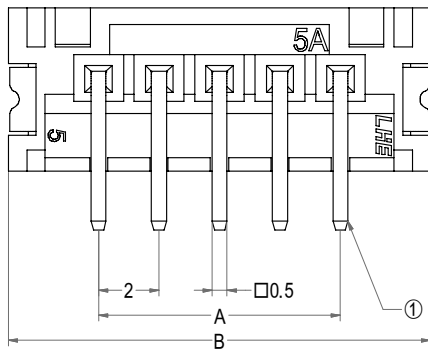
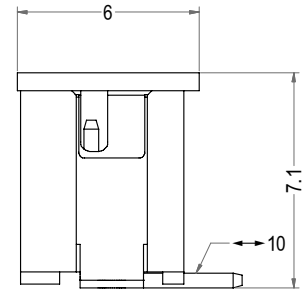
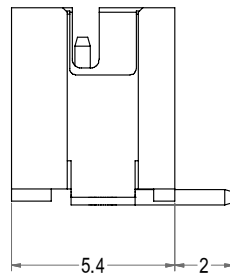
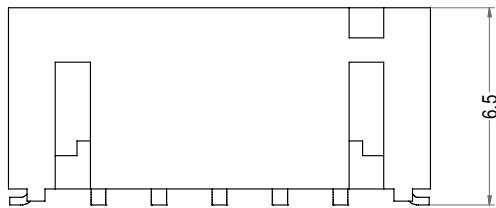
3D图示(打点样式)

LHE® 浙江联和电子有限公司			
品名	PH-AB-W	比例	4:1
料号	A2001-SV-W	未注公差(mm)	
图号	LHE\GC18	>0-3	±0.12
材料	LCP	>3-18	±0.15
制图	王天 2024-05-10	>18-50	±0.3
审核	天琴 2024-05-10	>50-120	±0.5
批准	季育文 2024-05-10	X°	±3°
视角		X.X°	±0.5°

PH型连接器承认书图面



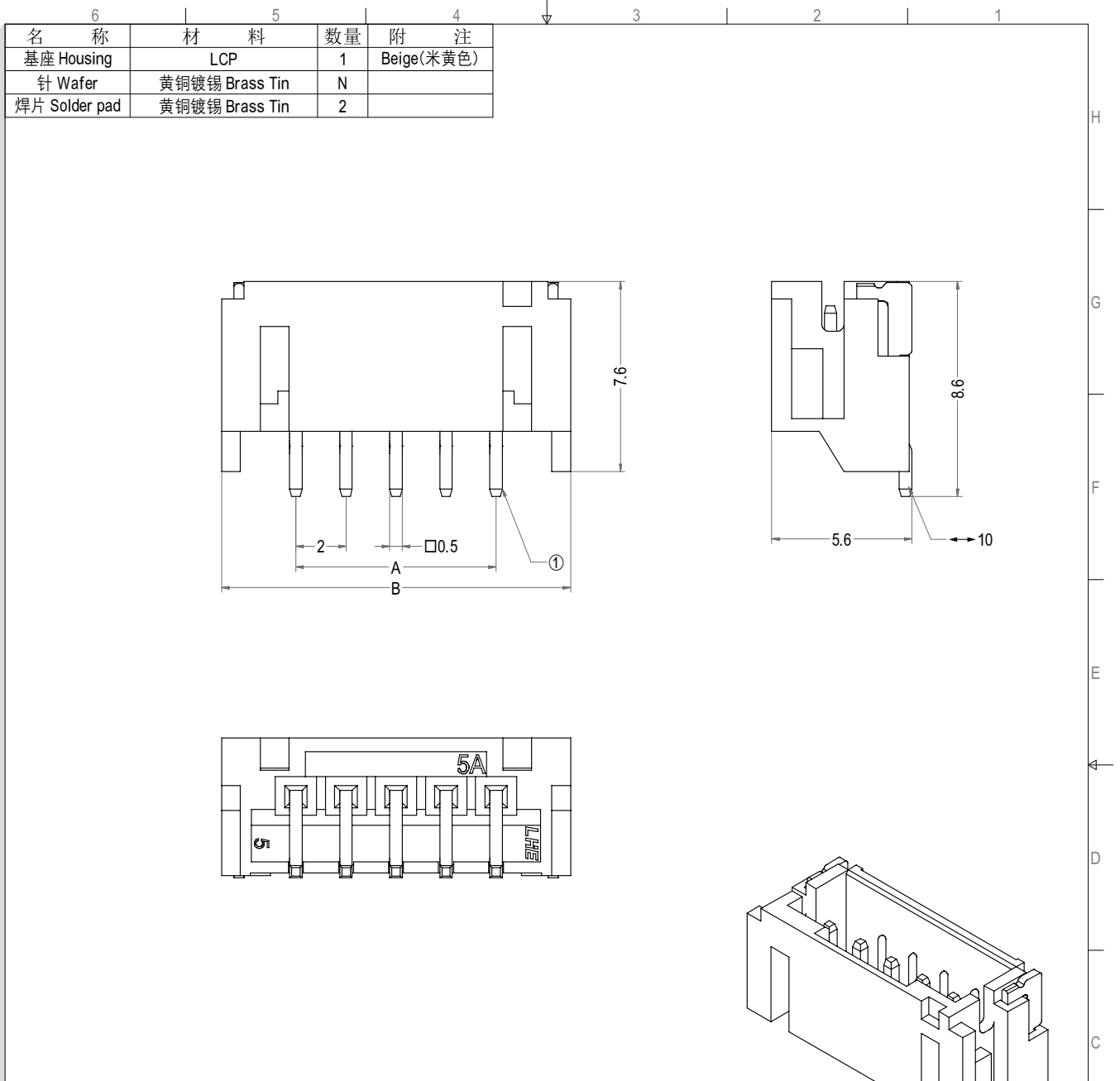
名称	材料	数量	附注
基座 Housing	LCP	1	Beige(米黄色)
针 Wafer	黄铜镀锡 Brass Tin	N	
焊片 Solder pad	黄铜镀锡 Brass Tin	2	
CAP	LCP	1	Beige(米黄色)



Poles	Part No.	Description	DIM=A	DIM=B
2	A2001-SV02	PH-2AB	2.00	7.95
3	A2001-SV03	PH-3AB	4.00	9.95
4	A2001-SV04	PH-4AB	6.00	11.95
5	A2001-SV05	PH-5AB	8.00	13.95
6	A2001-SV06	PH-6AB	10.00	15.95
7	A2001-SV07	PH-7AB	12.00	17.95
8	A2001-SV08	PH-8AB	14.00	19.95
9	A2001-SV09	PH-9AB	16.00	21.95
10	A2001-SV10	PH-10AB	18.00	23.95
11	A2001-SV11	PH-11AB	20.00	25.95
12	A2001-SV12	PH-12AB	22.00	27.95
13	A2001-SV13	PH-13AB	24.00	29.95
14	A2001-SV14	PH-14AB	26.00	31.95
15	A2001-SV15	PH-15AB	28.00	33.95
16	A2001-SV16	PH-16AB	30.00	35.95
17	A2001-SV17	PH-17AB	32.00	37.95
18	A2001-SV18	PH-18AB	34.00	39.95

LHE® 浙江联和电子有限公司			
品名	PH-AB	比例	4:1
料号	A2001-SV	未注公差(mm)	
图号	LHE\GC19	>0~3	±0.12
材料	LCP	>3~18	±0.15
制图	王天 2024-05-10	>18~50	±0.3
审核	天琴 2024-05-10	>50~120	±0.5
批准	季育文 2024-05-10	X°	±3°
视角		X.X°	±0.5°

PH型连接器承认书图面



Poles	Part No.	Description	DIM=A	DIM=B
2	A2001-SR02	PH-2AWB	2.00	7.95
3	A2001-SR03	PH-3AWB	4.00	9.95
4	A2001-SR04	PH-4AWB	6.00	11.95
5	A2001-SR05	PH-5AWB	8.00	13.95
6	A2001-SR06	PH-6AWB	10.00	15.95
7	A2001-SR07	PH-7AWB	12.00	17.95
8	A2001-SR08	PH-8AWB	14.00	19.95
9	A2001-SR09	PH-9AWB	16.00	21.95
10	A2001-SR10	PH-10AWB	18.00	23.95
11	A2001-SR11	PH-11AWB	20.00	25.95
12	A2001-SR12	PH-12AWB	22.00	27.95
13	A2001-SR13	PH-13AWB	24.00	29.95
14	A2001-SR14	PH-14AWB	26.00	31.95
15	A2001-SR15	PH-15AWB	28.00	33.95
16	A2001-SR16	PH-16AWB	30.00	35.95
17	A2001-SR17	PH-17AWB	32.00	37.95
18	A2001-SR18	PH-18AWB	34.00	39.95

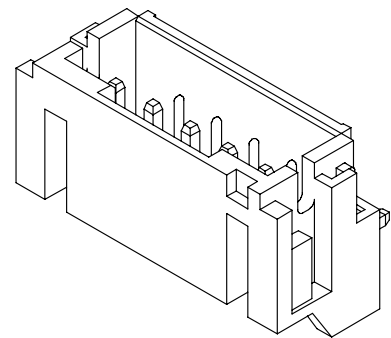
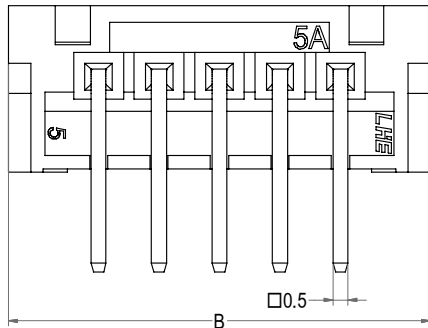
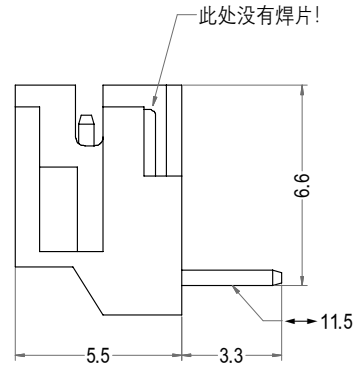
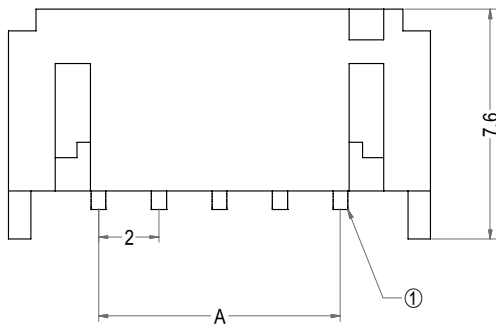
3D图示(打点样式)

LHE® 浙江联和电子有限公司			
品名	PH-AWB	比例	4:1
料号	A2001-SR	未注公差(mm)	
图号	LHE\GC20	>0~3	±0.12
材料	LCP	>3~18	±0.15
制图	王天 2024-05-10	>18~50	±0.3
审核	天琴 2024-05-10	>50~120	±0.5
批准	季育文 2024-05-10	X°	±3°
视角		X.X°	±0.5°

PH型连接器承认书图面



名称	材料	数量	附注
基座 Housing	LCP	1	Beige(米黄色)
针 Wafer	黄铜镀锡 Brass Tin	N	
CAP	LCP	1	Beige(米黄色)

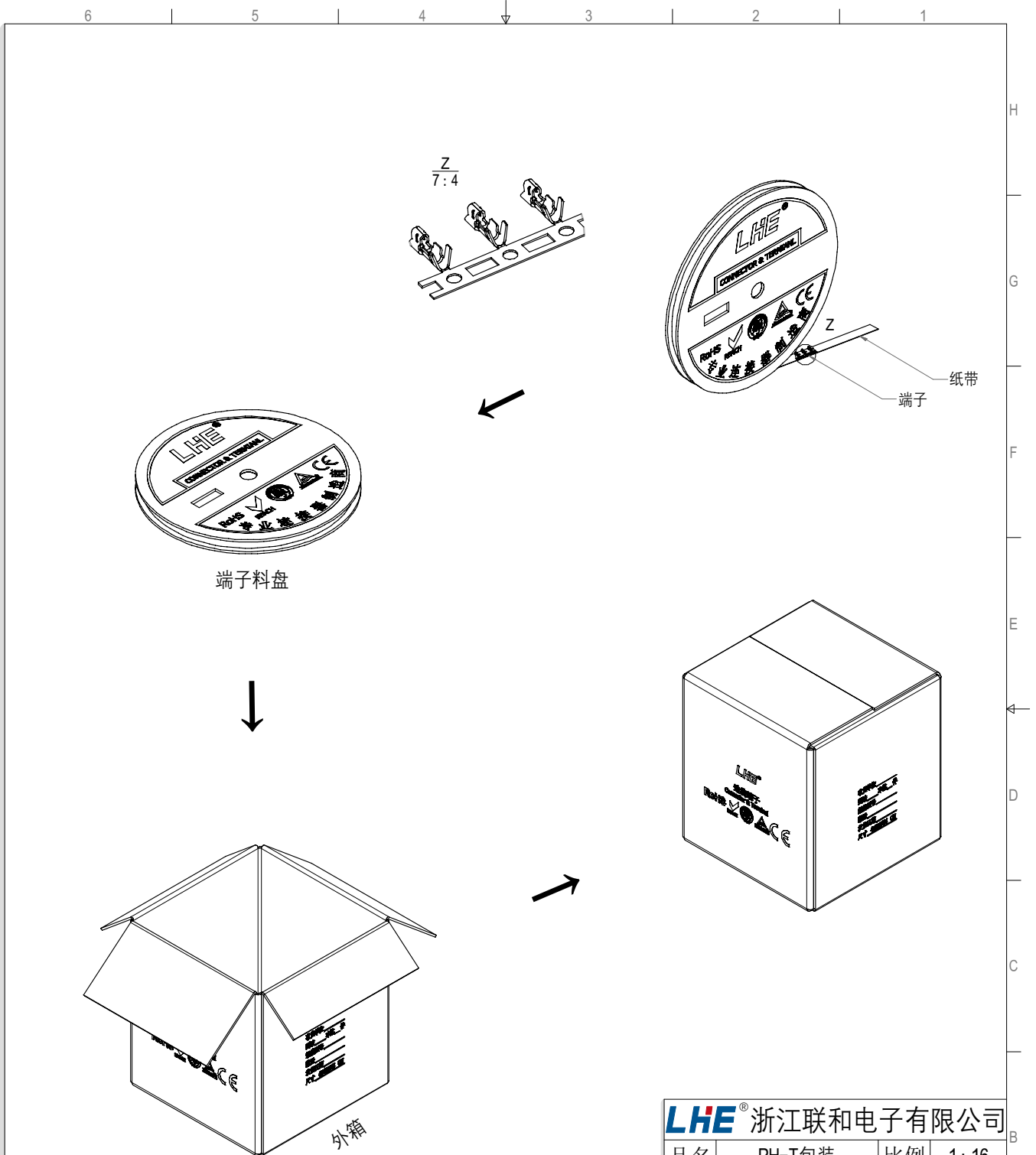


3D图示

Poles	Part No.	Description	DIM=A	DIM=B
2	A2001-SR02-W	PH-2AWB-W	2.00	7.95
3	A2001-SR03-W	PH-3AWB-W	4.00	9.95
4	A2001-SR04-W	PH-4AWB-W	6.00	11.95
5	A2001-SR05-W	PH-5AWB-W	8.00	13.95
6	A2001-SR06-W	PH-6AWB-W	10.00	15.95
7	A2001-SR07-W	PH-7AWB-W	12.00	17.95
8	A2001-SR08-W	PH-8AWB-W	14.00	19.95
9	A2001-SR09-W	PH-9AWB-W	16.00	21.95
10	A2001-SR10-W	PH-10AWB-W	18.00	23.95
11	A2001-SR11-W	PH-11AWB-W	20.00	25.95
12	A2001-SR12-W	PH-12AWB-W	22.00	27.95
13	A2001-SR13-W	PH-13AWB-W	24.00	29.95
14	A2001-SR14-W	PH-14AWB-W	26.00	31.95
15	A2001-SR15-W	PH-15AWB-W	28.00	33.95
16	A2001-SR16-W	PH-16AWB-W	30.00	35.95
17	A2001-SR17-W	PH-17AWB-W	32.00	37.95
18	A2001-SR18-W	PH-18AWB-W	34.00	39.95

LHE® 浙江联和电子有限公司			
品名	PH-AWB-W	比例	4:1
料号	A2001-SR-W	未注公差(mm)	
图号	LHE\GC21	>0-3	±0.12
材料	LCP	>3-18	±0.15
制图	王天 2024-05-10	>18-50	±0.3
审核	天琴 2024-05-10	>50-120	±0.5
批准	季育文 2024-05-10	X°	±3°
视角		X.X°	±0.5°

PH型连接器承认书图面



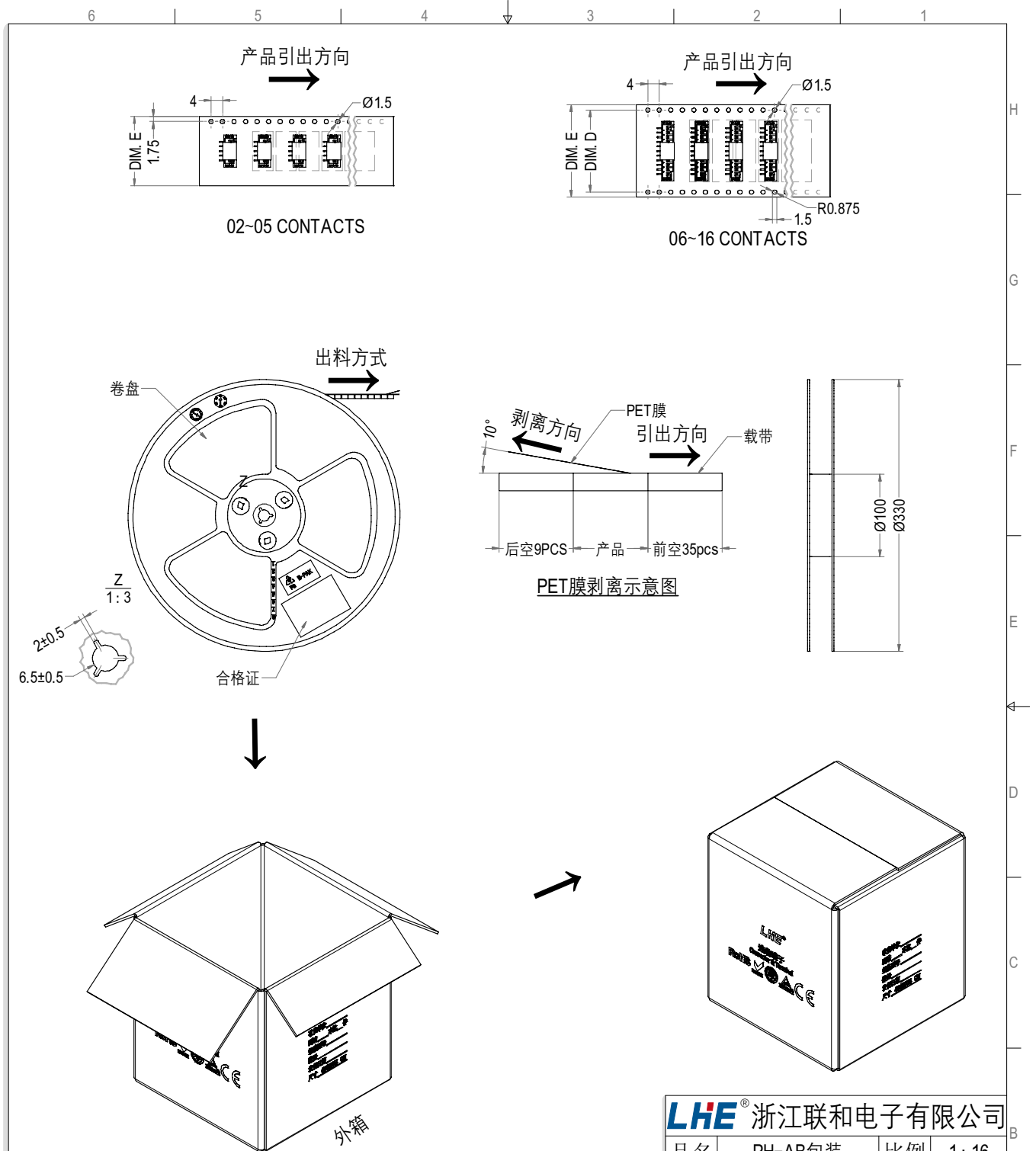
注释:

1. 产品尺寸请参照PH-NT图纸.
2. 此示意图为产品出料方式进行说明.
3. 胶带、PE袋未在图纸中体现,请以实物为准.
4. 此包装规范同样适用于PH-T21的产品.

LHE® 浙江联和电子有限公司			
品名	PH-T包装	比例	1:16
料号	A2001-T包装	未注公差(mm)	
图号	LHE\GC22	>0~3	±0.12
材料	/	>3~18	±0.15
制图	王天 2024-05-10	>18~50	±0.3
审核	天琴 2024-05-10	>50~120	±0.5
批准	季育文 2024-05-10	X°	±3°
视角		X.X°	±0.5°

Part No.	Description	Qty/reel	Reel/caton
A2001-TN	PH-TN	10000pcs	28/Reel

PH型连接器承认书图面

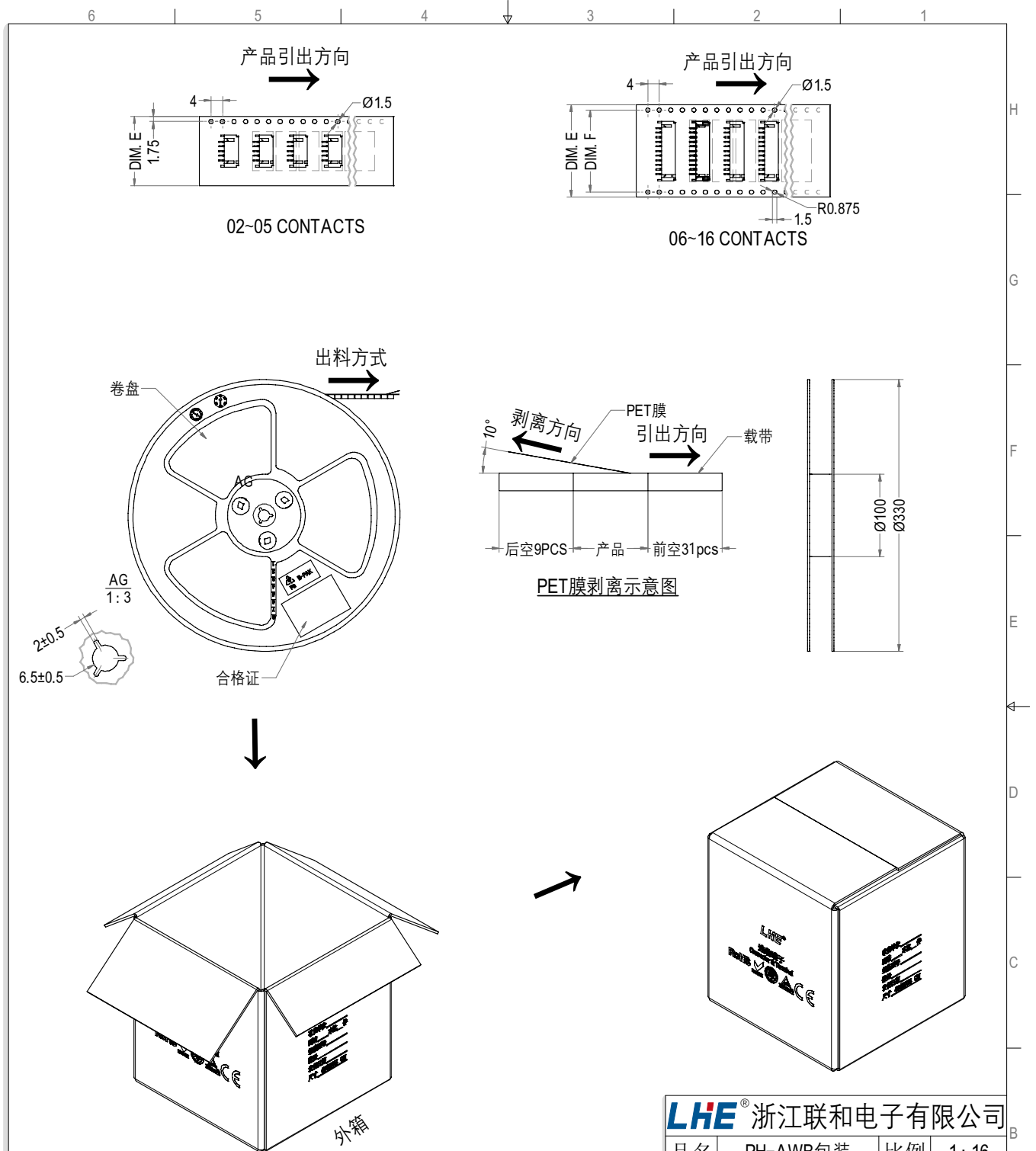


- 注释:
1. 产品尺寸请参照PH-NAB图纸.
 2. 此示意图为产品出料方式进行说明.
 3. 胶带、PE袋未在图纸中体现,请以实物为准.

Circuits	DIM. D	DIM. E	Q'ty/Reel	Reel/Caton
02PIN	-	16	700PCS	20/Reel
03-05PIN	-	24	700PCS	15/Reel
06-08PIN	28.4	32	700PCS	11/Reel
09-14PIN	40.4	44	700PCS	8/Reel
15-16PIN	52.4	56	700PCS	7/Reel

LHE® 浙江联和电子有限公司			
品名	PH-AB包装	比例	1:16
料号	A2001-SV包装	未注公差(mm)	
图号	LHE\GC23	>0-3	±0.12
材料	/	>3-18	±0.15
制图	王天 2024-05-10	>18-50	±0.3
审核	天琴 2024-05-10	>50-120	±0.5
批准	季育文 2024-05-10	X°	±3°
视角		X.X°	±0.5°

PH型连接器承认书图面



注释:
 1. 产品尺寸请参照PH-NAWB图纸.
 2. 此示意图为产品出料方式进行说明.
 3. 胶带、PE袋未在图纸中体现,请以实物为准.

Circuits	DIM. F	DIM. E	Q'ty/Reel	Reel/Caton
02-03PIN	-	16	1000PCS	20/Reel
04-05PIN	-	24	1000PCS	15/Reel
06-08PIN	28.4	32	1000PCS	11/Reel
09-14PIN	40.4	44	1000PCS	8/Reel
15-16PIN	52.4	56	1000PCS	7/Reel

LHE® 浙江联和电子有限公司			
品名	PH-AWB包装	比例	1:16
料号	A2001-SR包装	未注公差(mm)	
图号	LHE\GC24	>0-3	± 0.12
材料	/	>3-18	± 0.15
制图	王天 2024-05-10	>18-50	± 0.3
审核	天琴 2024-05-10	>50-120	± 0.5
批准	季育文 2024-05-10	X°	$\pm 3^\circ$
视角		X.X°	$\pm 0.5^\circ$

项目 Item	测试条件 Test Condition	规格要求 Requirement												
1.外观 Appearance	目测 Visual by eye 视力 Light: >1.0 照明 Lamp: 200~300Lx 目测距离 Space: 0.3~0.5m GB/T 5095.1 Method 1a	1.塑料件表面应无明显疤痕、凹陷、开裂及影响使用的变形。 Plastic part:smooth and flat surface without discolor,broken,crack distortion defects is acceptable. 2.金属件表面无锈蚀、氧化、无明显的机械损伤等缺陷。 Metal part:btight and even surface without rust,oxide,fog and obvious physical damage defects is acceptable. 3.导线表面清洁、无破损等缺陷,印字及标志清晰。 Wire:clearing surface without discolor,broken defects,indistinct words and mark is acceptable.												
2.壳体/端子固定力 Terminal/Housing Retention Force	固定连接器或测力计,在连接器轴线方向施加规定的拉力; 速度不大于25mm/min。 Apply axial pull out force at the speed rate of not more 25mm/min on the pin assembled in the housing. GB/T 5095.8 Method 15d/EIA-364-29B	<p style="text-align: right;">≥ 10N</p>												
3.插入力与拔出力 Insertion and Withdrawal Force	单PIN相配的接触器以1mm/s~5mm/s的速度沿接插器轴线方向插入和拔出。 Insertion and withdraw single contact at the speed rate of 1mm/s~5mm/s.													
	相配的连接器的以1mm/s~5mm/s的速度沿接插器轴线方向插入和拔出。 Insertion and withdraw connectors at the speed rate of 1mm/s~5mm/s. GB/T 5095.7 Method 13b/EIA-364-13B	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">极数 Poles</th> <th>插入力(最大值) Insertion(N Max)</th> <th>拔出力(最小值) Withdrawal(N Min)</th> </tr> <tr> <th>1st</th> <th>1st</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>8.0</td> <td>1.5</td> </tr> </tbody> </table>			极数 Poles	插入力(最大值) Insertion(N Max)	拔出力(最小值) Withdrawal(N Min)	1st	1st	1	8.0	1.5		
极数 Poles	插入力(最大值) Insertion(N Max)	拔出力(最小值) Withdrawal(N Min)												
	1st	1st												
1	8.0	1.5												
4.针的固定力 Pin Retention Force	固定连接器或测力计,在连接器轴线方向对针施加规定的推力; 速度不大于25mm/min。 Apply axial push out force at the speed rate of not more 25mm/minute on the terminal assembled in the base. GB/T 5095.8 Method 15a/ EIA-364-29B	<p style="text-align: right;">≥ 10N</p>												
5.压着部位抗拉强度 Crimping Pull Out Force	在试验装置夹头中固定测试样品,在连接的轴线方向施加拉力; 速度不大于25mm/min。 Fix the crimped terminal, apply axial pull out force on the wire at the speed rate of not more 25mm/min. GB/T5095.8 Method 16d/EIA-364-08B	<table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>AWG.24#</td> <td>≥ 30N</td> </tr> <tr> <td>AWG.26#</td> <td>≥ 20N</td> </tr> <tr> <td>AWG.28#</td> <td>≥ 15N</td> </tr> <tr> <td>AWG.30#</td> <td>≥ 10N</td> </tr> <tr> <td>AWG.32#</td> <td>≥ 5N</td> </tr> </tbody> </table>			AWG.24#	≥ 30N	AWG.26#	≥ 20N	AWG.28#	≥ 15N	AWG.30#	≥ 10N	AWG.32#	≥ 5N
AWG.24#	≥ 30N													
AWG.26#	≥ 20N													
AWG.28#	≥ 15N													
AWG.30#	≥ 10N													
AWG.32#	≥ 5N													

项目 Item	测试条件 Test Condition	规格要求 Requirement	
6. 机械振动 Vibration	插合连接器, 串联在一直流电源上, 电流 100mA; 并模拟正常工作状态, 振频为 10~55Hz、振幅 1.5mm; 每一轴线扫频循环次数 10 次、2 小时。 Frequency: 10~55Hz Amplitude: $\pm 1.5\text{mm}$ Duration: 2 hours in each X,Y,Z axes GB/T 5095.4 Method 6d/EIA-364-28D	外观 Appearance	无损伤 No Damage
		接触电阻 Contact Resistance LLCR	$\leq 20\text{m}\Omega$
7. 机械冲击 Shock	连接器相配, 沿 X, Y, Z 三轴正反方向各冲击 3 次 (总共 18 次), 在测试过程中通以 100mA 电流。 冲击强度: 490m/s^2 持续时间: 11ms Mated connectors and subject to the following shock conditions, 3 times of shock shall be applied for each 6 directions along 3 mutually perpendicular axes, passing DC 100mA current during the test (Total of 18 shocks) Test Pulse: Half Sine Peak Value: 490m/s^2 Duration: 11ms GB/T 5095.4 Method 6c/EIA-364-27B	中断 Intermittence	$\leq 1\mu\text{ sec}$
		接触电阻 Contact Resistance LLCR	$\leq 20\text{m}\Omega$
8. 机械寿命 Repeated insertion/withdrawal	以每分钟插拔 10 次的速率, 插拔 50 次。 When mated up to 50 cycles repeatedly by the rate of 10 cycles per minute. GB/T 5095.5 Method 9a/EIA-364-09C	外观 Appearance	无损伤 No Damage
		接触电阻 Contact Resistance LLCR	$\leq 20\text{m}\Omega$
9. 接触电阻 Contact Resistance	插合连接器, 用小功率电路进行测试。 Mate connectors, measure by dry circuit. GB/T 5095.2 Method 2a/EIA-364-23B	$\leq 10\text{m}\Omega$	
10. 绝缘电阻 Insulation Resistance	在相邻接触件之间或地线之间, 用 500V DC 电压进行测试。 Apply 500V DC between adjacent terminal or ground. GB/T 5095.2 Method 3a/EIA-364-21C	$\geq 1000\text{M}\Omega$	
11. 耐电压 Dielectric Strength	相邻接触件之间或地线之间施加 50Hz 800V AC (有效值), 漏电流 1mA 的电压作用, 时间 1min。 Mate connectors, apply 800V AC for 1 minute between adjacent terminal or ground. GB/T 5095.2 Method 4a/EIA-364-20B	无击穿和飞弧现象 No Breakdown	
12. 温度上升 Temperature Rise	插合连接器, 通以最大允许电流。 GB/T 5095.3 Method 5a/EIA-364-70A	温度最大上升 Temperature Rise	$\leq 30^\circ\text{C}$
13. 耐高温 Heat Resistance	连接器配合后, 于 $+105^\circ\text{C} \pm 2^\circ\text{C}$ 的空气中放置 96 小时, 然后再回到 室温中放置 1~2 小时测定 Mated connectors are exposed to a temperature of $+105^\circ\text{C} \pm 2^\circ\text{C}$ for 96 hours. GB/T 5095.6 Method 11i /EIA-364-17B	外观 Appearance	无损伤 No Damage
14. 耐低温 Clod Resistance	连接器配合后, 于 $-25^\circ\text{C} \pm 2^\circ\text{C}$ 的空气中放置 96 小时, 然后再回到 室温中放置 1~2 小时测定 Mated connectors are exposed to a temperature of $-25^\circ\text{C} \pm 2^\circ\text{C}$ for 96 hours. GB/T 5095.6 Method 11i /EIA-364-17B	接触电阻 Contact Resistance LLCR	$\leq 20\text{m}\Omega$

项目 Item	测试条件 Test Condition	规格要求 Requirement	
15. 恒定湿热 Humidity	温度 Temperature: 40±2°C 相对湿度 Relative Humidity: 90%~95% 搁置时间 Duration: 96h, 取出恢复2小时后检查 GB/T 5095.6 Method 11c/EIA-364-31B	外观 Appearance	无损伤 No Damage
		耐电压 Dielectric Strength	800V
16. 温度循环 Temperature cycle	把测试样品放入高低温试验箱中,按下列步骤调试温度: a)在-25°C±2°C的恒温条件下放置0.5小时; b)在+105°C±2°C的恒温条件下放置0.5小时; 从a)到b)为一个循环周期,共进行5个循环。恢复1h后检查。 状态转换时间不多于1小时。 Mated connectors are exposed to 5 cycles of: a)-25°C±2°C 0.5hour b)+105°C±2°C 0.5hour GB/T 5095.6 method 11d/EIA-364-32C	绝缘电阻 Insulation Resistance	≥ 1000MΩ
		接触电阻 Contact Resistance LLCR	≤ 20mΩ
17. 盐雾 Salt Spray	把先冲后镀*的测试样品从试验箱顶悬挂下来,采用浓度为5%±1(质量百分比)的氯化钠溶液,连续雾化24小时,试验后用流动的蒸馏水轻轻洗去表面沉积物。在常温常驻湿条件下恢复1~2小时。 24 hour exposure to a saltspray from the 5%±1 solution. GB/T 5095.6 Method 11f/EIA-364-26B	外观无损伤(五金件应无露出底金属的严重锈蚀;使用预镀的型材,其落料面允许有不影响其性能的轻微腐蚀。) Appearance:No Damage(No erosion with material exposed.And with plating material,slight erosion on the cutting surface acceptable)	
18. 可焊性 Solderability	把测试样品需要焊接的部位浸入焊锡炉中(锡炉温度235°C±5°C)2±0.5秒钟。 Soldering time: 2±0.5 sec Solder Temperature:235°C±5°C GB/T 5095.6 Method 12a/EIA-364-52	上锡率≥90% 90% of immersed area must show no voids,pin holes	
19. 耐焊接热 Resistance to Soldering Heat	把测试样品需要焊接的部位浸入焊锡炉中(锡炉温度260°C±5°C);5±1秒钟后,在正常的条件下恢复1小时。 Soldering time: 5±1 sec Solder Temperature:260°C±5°C GB/T 5095.6 Method 12d/EIA-364-56A	外观 Appearance	无损伤 No Damage
20. 灼热丝测试 Glow Wire (只针对GWT750°C产品 Only for GWT750°C products)	750C灼热丝顶部接触试验样品,接触时间:(30±1) s 接近和离开速率: 10mm/s~25mm/s 灼热丝进入或贯穿试验样品深度:(7±0.5) mm 750°C elow wire contacts with mated connector. Time: (30+1) s Speed of closing to and leaving: 10mm/s~25mm's Depth that glow wire penetrates mated connector: (7-05 mm GB/T 5169.10	1.试验样品燃烧时间不超过2s。 The time that mated connector burns is not more than 2s. 2、灼热丝离开后的30s内样件无火焰或灼热情况,且无滴落物或滴落物不燃烧。 30s after glow wire leaves mated con nector, it does not burn or is no incand escence and it does not fall something or falling something does not burn.	
21. 耐酸性(二氧化硫) Acid resistance(SO ₂)	连接器闭合连接,3±1ppm, 40±2°C.96 小时 Mated connector,3±1ppm,40±2°C Duration 96hours GB/T2423.51	接触电阻 Contact Resistance LLCR	≤ 20mΩ

项目 Item	测试条件 Test Condition	规格要求 Requirement	
22.氨气测试 Ammonia test	连接器闭合连接，放置于浓度为 25 mL/L 的 3% 的 NH ₃ 的空气中 7 小时 Mated connector is put into atmosphere that rated 25 ml/L of 3% NH ₃ for 7 hours GB/T2423.51	接触电阻 Contact Resistance LLCR	≤20mΩ

* 先冲后镀为定制端子。常规端子为先镀后冲, 无法通过盐雾试验。

制订 Edit: 王夫

日期 DATE: 2024-05-10

审核 Check: 天琴

日期 DATE: 2024-05-10

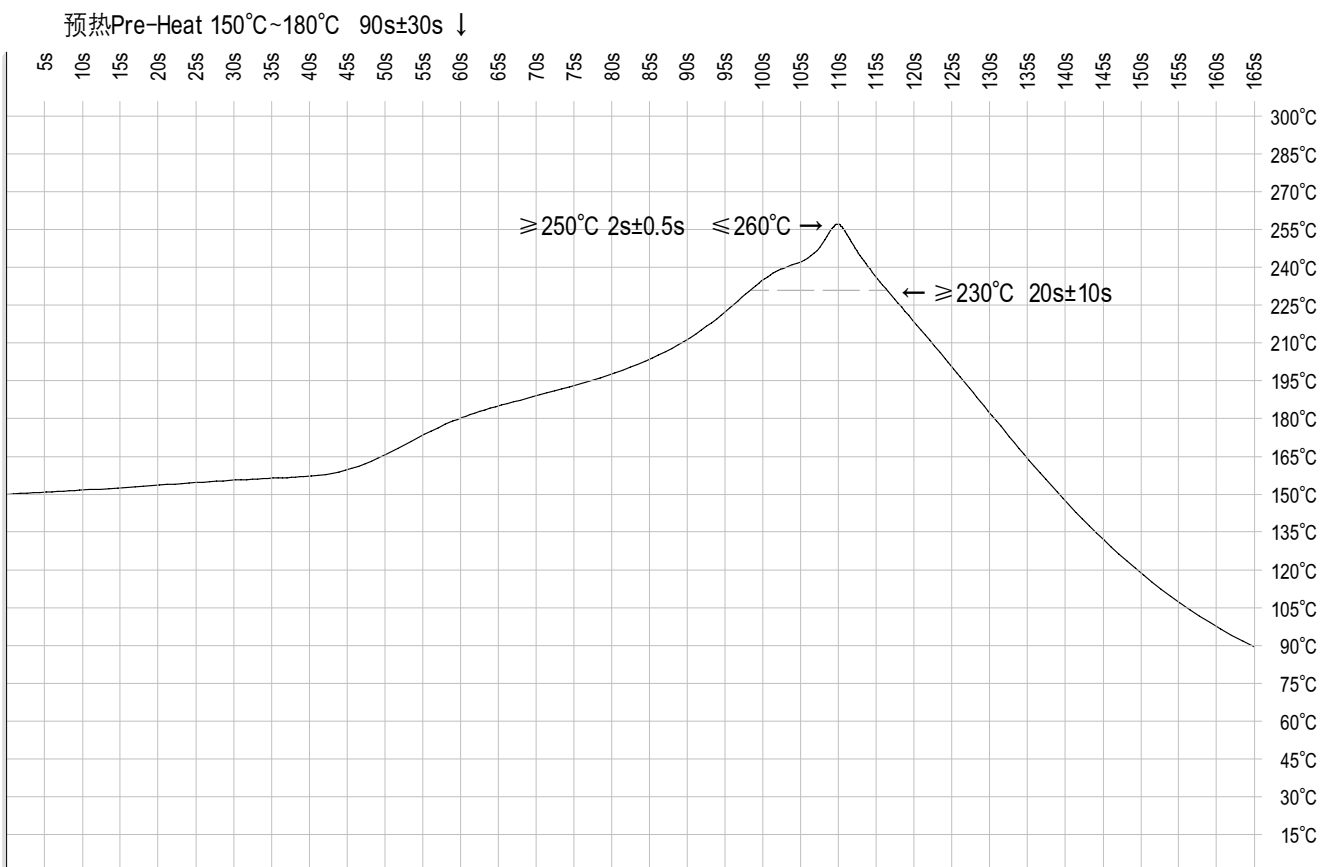
批准 Approval: 季育文

日期 DATE: 2024-05-10

无铅回流焊要求 Pb-free reflow profile requirements

参数 Parameter	参考 Reference	规格 Specification
平均温度梯度预热 Average Temperature Gradient Preheating		2.5°C/s
浸泡时间 Soak time	tsoak 2-3	minutes
150°C以上时间 Time above 150°C	T1	60s
180°C以上时间 Time above 180°C	T2	50s
250°C以上时间 Time above 250°C	T3	2±0.5s
焊接温度 Peak temperature in reflow	Tpeak	255°C(-0/+5°C)
温度梯度的冷却 Temperature gradient in cooling		Max -5°C/s

温度条件图 TEMPERATURE CONDITION GRAPH



注: 对耐热性的最低要求, 是在回流焊中使用空气对流的传热方法评估焊接部件。该曲线图表明需要达到规定的空气温度, 而实际过程很大程度上取决于回流焊装置。

Note: The minimum required heat resistance of the section is to evaluate the welded components. Heat transfer method is used for hot air convection in reflow welding. The actual air temperature used to achieve the specified profile depends largely on the reflow device.

LHE[®] 浙江联和电子有限公司

产品性能测试报告

品名 (DESCRIPTION)	PH	测定者 (Inspector)	吴智原	测定条件 (Test Condition)	温度: 22℃ (Temperature)
料号 (MODEL NO.)	A2001	日期 (Date)	2022.03.27		湿度: 65% (Humidity)

试验项目 (Test Title)	规格 (Specification)		测定值(Data)					COM
			X1	X2	X3	X4	X5	
带线胶壳与针座插拔力 (Connector assemble with cable and wafer, mating and unmating force)	2 pin Unit: N Mating force 21 max. Unmating force 8 min.	插入(Mating)	10	12.5	10.5	11	12	ok
		拔出(Unmating)	12.5	11.5	11	12	12.5	ok
	8 pin Unit: N Mating force 69 max. Unmating force 17 min.	插入(Mating)	47.5	48	44.5	46	48.5	ok
		拔出(Unmating)	34	36	32.5	33	34.5	ok
端子和胶壳的固定力 (Terminal Retention in housing)	10N Min		18.5	20.5	18	19	18.5	ok
端子和插针单独插入力 (Single terminal and PIN withdrawal force)	8N Max		4.5	4.0	3.5	4.5	3.0	ok
端子和插针单独拔出力 (Single terminal and PIN withdrawal force)	1.5N Min		2.0	2.5	2.0	2.5	2.0	ok
插针和壳体的固定力 (PIN Retention in insulator)	10N Min		18	17	18.5	19.5	17.5	ok
盐雾试验 (Salt spray)	雾化16小时, 后镀端子不能有腐蚀现象 (Spray time:16 hours, terminals stamping then plating must not corrode)		PASS	PASS	PASS	PASS	PASS	ok
	接触电阻 (Contact Resistance)	20m Ω Max	11.7	13.2	12.4	12.9	11.5	ok
盐雾试验 (Salt spray)	雾化24小时, 插针不能有腐蚀现象 (Spray time:24 hours, PINs must not corrode)		PASS	PASS	PASS	PASS	PASS	ok
	接触电阻 (Contact Resistance)	20m Ω Max	12.1	10.5	11.8	11.9	13.5	ok
温度循环 (Temperature cycling)	外观 (Appearanc)	无损伤 (No damage)	PASS	PASS	PASS	PASS	PASS	ok
	接触电阻 (Contact Resistance)	20m Ω Max	12.8	11.9	13.4	13.9	12.4	ok
	绝缘电阻 (Insulation Resistance)	1000M Ω Min	PASS	PASS	PASS	PASS	PASS	ok
	耐电压 (Dielectric Withstanding Voltage)	800V _{AC} /minute	PASS	PASS	PASS	PASS	PASS	ok



LHE® 浙江联和电子有限公司
ZHEJIANG LIANHE ELECTRONICS CO.,LTD.

可靠性试验报告
RELIABILITY TEST REPORT

日期: 2022-03-27

针焰实验 (Needle flame experiment)

测试目的 (Test Purposes)	确定AB11069W-S16-10产品在针焰条件下是否符合标准要求 Determine if the AB11069W-S16-10 Does the product meet the standard requirements under the condition of needle flame
测试条件 (Test Conditions)	温度35±2℃ Temperature 35 ± 2 ℃;
测试方法 (Test Method)	对产品施加试验火焰持续时间为12s。火焰高度12mm±1mm The test flame was applied to the product for 12 s. Flame height 12 mm ± 1 mm
参照标准 (With Reference to)	GB/T5169.5-2008
判定标准 (Test Standard)	a. 试验样品无火焰和灼热, 并且规定的铺底层或包装绢纸没有起燃 b. 在移开针焰后, 试验样品和周围的零部件的火焰或灼热在30s之内熄灭, 即tb<30s, 而且周围的零部件没有完全烧毁, 以及规定的铺底层或包装绢纸没有起燃。 a. The test sample has no flame and heat, and the specified bedding or wrapping paper does not ignite b. After removing the needle flame, the flame or burning heat of the test sample and the surrounding parts will be extinguished within 30s, i.e. TB < 30s, and the surrounding parts are not completely burnt out, and the specified underlay or wrapping silk paper does not ignite
测试设备 (Test Equipment)	针焰试验机 Needle flame testing machine
测试程序 (Test Program)	外观检验→固定样品→试验启动 →观察→记录起火时间

测试结果 (The test results)	测试图片 Test Picture						
	 						
	项次 Items	1	2	3	4	5	备注
	第一组 group1	无起燃	无起燃	无起燃	无起燃	无起燃	/
	第二组 group2	无起燃	无起燃	无起燃	无起燃	无起燃	/
结果 results	OK	OK	OK	OK	OK	/	
结果判定 (The results determine)	样品数量 The Number of Samples 8PCS		合格数 The Number of competency		10		结果 Results OK
			不合格数 Unqualified		0		
			外观 Appearances		OK		

核准 (Approved): 陈浙海

测试人 (Testing Person): 玉夫

LHE® 浙江联和电子有限公司
ZHEJIANG LIANHE ELECTRONICS CO.,LTD.

可靠性试验报告

RELIABILITY TEST REPORT

日期: 2025-02-12

灼热丝实验(Glow wire experiment)

测试目的 (Test Purposes)	确定AB11069W-S16-10灼热丝材料产品在灼热丝条件下是否符合标准要求 Determine if the AB11069W-S16-10 Does the product meet the standard requirements under the condition of glow wire								
测试条件 (Test Conditions)	灼热丝起燃温度 (GWIT) 记录值为起始温度加 25K (对于 900℃ 和 930℃ 则是 30K, 960℃ 记为 GWIT: >960/厚度) Gwire ignition temperature (GWIT) recorded value is the starting temperature plus 25K (for 900℃ and 930℃ is 30K, 960℃ is GWIT: >960 / thickness)								
测试方法 (Test Method)	施加试验火焰持续时间为 30s。试验温度 750℃ The test flame duration was 30 s. Test temperature: 750 °C								
参照标准 (With Reference to)	根据 GB/T 5169.12-2006 及 GB/T 5169.13-2013 执行。								
判定标准 (Test Standard)	试验样条无火焰, 并且规定的铺底层或包装绢纸没有起燃。 The test sample has no flame and heat, and the specified bedding or wrapping paper does not ignite								
测试设备 (Test Equipment)	灼热丝测试仪 Glow-wire tester								
测试程序 (Test Program)	外观检验 → 固定样条 → 试验启动 → 观察 → 记录起火时间								
测试结果 (The test results)	测试图片 Test Picture								
	材料规格	试片尺寸 (长 X 宽 X 厚) 单位: mm	起始温度 (°C)	样品	起燃时间 (Ti) 单位: 秒	熄灭时间 (Te)	现象记录	GWIT	GWFI
								判定: PASS 或 FAIL	
	A66V0 002	60X60X2.5	750	第1个 第2个 第3个	不起燃 不起燃 不起燃	/ / /	不起燃, 无滴落 不起燃, 无滴落 不起燃, 无滴落	PASS (GWIT: 775/2.5)	PASS (GWFI: 750/2.5)
	A66V0 002	60X60X2.5	800	第1个 第2个 第3个	6 5 6	32 31 33	接触后很快就起燃, 熔融但无滴落, 起燃后 32S 熄灭 接触后很快就起燃, 熔融但无滴落, 起燃后 28S 熄灭 接触后很快就起燃, 熔融但无滴落, 起燃后 33S 熄灭	FALL	PASS (GWFI: 800/2.5)
	A66V0 002	60X60X2.5	850	第1个 第2个 第3个	2 1 2	47 53 51	接触后很快就起燃, 熔融但无滴落, 起燃后 46S 熄灭 接触后很快就起燃, 熔融但无滴落, 起燃后 51S 熄灭 接触后很快就起燃, 熔融但无滴落, 起燃后 52S 熄灭	FALL	PASS (GWFI: 850/2.5)
	A66V0 002	60X60X2.5	960	第1个 第2个 第3个	1 1 1	51 52 49	接触后很快就起燃, 熔融但无滴落, 起燃后 50S 熄灭 接触后很快就起燃, 熔融但无滴落, 起燃后 51S 熄灭 接触后很快就起燃, 熔融但无滴落, 起燃后 50S 熄灭	FALL	PASS (GWFI: 960/2.5)
	测试须知 (The test requirements)	1. 灼热丝起燃温度 (GWIT) 记录值为起始温度加 25K (对于 900℃ 和 930℃ 则是 30K, 960℃ 记为 GWIT: >960/厚度); 2. 产品在移开灼热丝之后持续燃烧的时间 ≤ 30s, 即 Te ≤ Ta (施加时间) + 30s, 并且包装绢纸没有起燃, 则灼热丝可燃性指数 (GWFI) 即为 PASS, 记录为 GWFI: 温度/厚度; 3. 本实验灼热丝 Ta (施加时间) 为 30s, 则 Te ≤ 60s 4. 如果 3 个其中有 1 个不合格则最终结果为不合格: .							

核准 (Approved) : 陈浙海

测试人 (Testing Person) : 玉夫



Component - Plastics

File Number: E331274

Celanese (Suzhou) Engineering Plastics Co Ltd
N. 155 Song Bei Road, Suzhou Industrial Park, Suzhou Jiangsu 215024 CN



FRIANYL: A3 RV0 (a)(b)(f2)

Polyamide 66 (PA66), pellets, unfilled

(a) - Virgin and regrind up to 50% by weight inclusive, have the same basic material characteristics.

(b) - Virgin and regrind up to 100% by weight inclusive, have the same basic characteristics with respect to flammability.

(f2) - Subjected to one or more of the following tests: Ultraviolet Light, Water Exposure or Immersion in accordance with UL 746C, where the acceptability for outdoor use is to be determined by UL.

Flammability	Value	Test Method
Flame Rating		UL 94
0.25 mm, ALL	V-0	IEC 60695-11-10, -20
0.38 mm, ALL	V-0	
0.75 mm, ALL	V-0	
1.5 mm, ALL	V-0	
3.0 mm, ALL	V-0	
Glow Wire Flammability Index		IEC 60695-2-12
0.75 mm	960 °C	
1.5 mm	960 °C	
3.0 mm	960 °C	
Glow Wire Ignition Temperature		IEC 60695-2-13
0.75 mm	775 °C	
1.5 mm	775 °C	
3.0 mm	775 °C	
Electrical	Value	Test Method
Hot-wire Ignition (HWI)		UL 746
0.25 mm	PLC 4	
0.38 mm	PLC 4	
0.75 mm	PLC 4	
1.5 mm	PLC 4	
3.0 mm	PLC 3	
High Amp Arc Ignition (HAI)		UL 746
0.25 mm	PLC 1	
0.38 mm	PLC 1	
0.75 mm	PLC 0	
1.5 mm	PLC 0	
3.0 mm	PLC 0	
Comparative Tracking Index (CTI)	PLC 0	UL 746
Dielectric Strength	25 kV/mm	ASTM D149 IEC 60243-1
High Voltage Arc Tracking Rate (HVTR)	PLC 0	UL 746
Inclined-Plane Tracking (1.0 kV)	60 min	ASTM D2303
Volume Resistivity	1.0E+13 ohms-cm	ASTM D257 IEC 60093
Arc Resistance	PLC 5	ASTM D495

Component - Plastics

File Number: E331274



Thermal	Value	Test Method
RTI Elec		UL 746
0.25 mm	85.0 °C	
0.38 mm	130 °C	
0.75 mm	130 °C	
1.5 mm	130 °C	
3.0 mm	130 °C	
RTI Imp		UL 746
0.25 mm	85.0 °C	
0.38 mm	105 °C	
0.75 mm	105 °C	
1.5 mm	105 °C	
3.0 mm	105 °C	
RTI Str		UL 746
0.25 mm	85.0 °C	
0.38 mm	115 °C	
0.75 mm	120 °C	
1.5 mm	120 °C	
3.0 mm	120 °C	
Physical	Value	Test Method
Dimensional Stability	0.0 %	ASTM D1042 ISO 2796
Outdoor Suitability	f2	UL 746C

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2017/12/23

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E 106764

Component - Plastics

Guide Information

POLYPLASTICS CO LTD

16-1 KONAN 2 CHOME, MINATO TOKYO 1088280 JP

E130i(d)(e)(f1)

Liquid Crystal Polymer (LCP), thermotropic aromatic polyester "LAPEROS", furnished as pellets

Color	Min. Thk (mm)	Flame Class	HWI	HA	RTI Elec	RTI Imp	RTI Str
NC, BK	0.75	V-0	2	0	240	220	240
	1.5	V-0	1	0	240	220	240
	3.0	V-0	0	0	240	220	240

Comparative Tracking Index (CTI): 4

Dielectric Strength (kV/mm): 30

High-Voltage Arc Tracking Rate (HVTR): 0

Dimensional Stability (%): 0

Inclined Plane Tracking (IPT) kV: -

Volume Resistivity (10⁸ ohm-cm): 16

High Volt, Low Current Arc Resis (D495): 5

(d) - Virgin and regrind up to 50% by weight incl., have the same basic material characteristics in NC and BK with a minimum thickness of 0.75mm.

(e) - Regrind from 25-50% by weight inclusive has an impact RTI of 180C at thicknesses greater than 1.5mm.

(f1) - Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C.

ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents. ANSI/UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by UL.

Report Date: 1992-08-19

Last Revised: 2017-06-27

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IEC and ISO Test Methods				
Test Name	Test Method	Units	Thk (mm)	Value
Flammability	IEC 60695-11-10	Class (color)	0.75	V-0 (NC, BK)
			1.5	V-0 (NC, BK)
			3.0	V-0 (NC, BK)
Glow-Wire Flammability (GWFI)	IEC 60695-2-12	°C	0.75	960
			1.5	960
			3.0	960
Glow-Wire Ignition (GWIT)	IEC 60695-2-13	°C	0.75	850
			1.5	850
			3.0	900
IEC Comparative Tracking Index	IEC 60112	Volts (Max)	-	-
IEC Ball Pressure	IEC 60695-10-2	°C	-	-
ISO Heat Deflection (1.80 MPa)	ISO 75-2	°C	-	-
ISO Tensile Strength	ISO 527-2	MPa	-	-
ISO Flexural Strength	ISO 178	MPa	-	-
ISO Tensile Impact	ISO 8256	kJ/m ²	-	-
ISO Izod Impact	ISO 180	kJ/m ²	-	-
ISO Charpy Impact	ISO 179-2	kJ/m ²	-	-

UL Product iQ[™]

ECBT2.E364711 - Connectors for Use in Data, Signal, Control and Power Applications - Component

Connectors for Use in Data, Signal, Control and Power Applications - Component

See General Information for Connectors for Use in Data, Signal, Control and Power Applications - Component

ZHEJIANG LIANHE ELECTRONIC CO LTD

E364711

Chuangxin Road, YueQing Bay Port Zone
Yueqing, Zhejiang 325600 CHINA

Connector, Model(s) 1.58-LHE f/b 2 , f/b 1 thru 12, f/b A2 or AW., 1.58-LHE f/b 2 thru 6, f/b A2 or AW

Connector, Model(s) 1.58-LHE followed by 2, followed by 1 thru 12, followed by A(T).

Connector, Model(s) 1.58-LHE, f/b 2 thru 6, f/b A(T), 1.58-LHE, f/b 2 thru 6, f/b Y(T), 1.58-LHE, f/b 2, f/b 1 thru 12, f/b Y(T), 2510-LHE f/b 2, f/b 1 thru 12, f/b A2 or AW, 2510-LHE f/b 2 thru 6, f/b A2 or AW

Connector, Model(s) 2510-LHE followed by 2, followed by 1 thru 12, followed by A(T)

Connector, Model(s) 2510-LHE, f/b 2 thru 6, f/b A(T), 2510-LHE, f/b 2 thru 6, f/b Y(T), 2510-LHE, f/b 2, f/b 1 thru 12, f/b Y(T), 5.08-LHE f/b 2, f/b 1 thru 12, f/b A2 or AW, 5.08-LHE f/b 2 thru 6, f/b A2 or AW

Connector, Model(s) 5.08-LHE followed by 2, followed by 1 thru 12, followed by A(T)

Connector, Model(s) 5.08-LHE, f/b 2 thru 6, f/b A(T), 5.08-LHE, f/b 2 thru 6, f/b Y(T), 5.08-LHE, f/b 2, f/b 1 thru 12, f/b Y(T), 51005-LHE f/b 2, f/b 1 thru 12, f/b A2 or AW, 51005-LHE f/b 2 thru 6, f/b A2 or AW

Connector, Model(s) 51005-LHE followed by 2, followed by 1 thru 12, followed by A(T)

Connector, Model(s) 51005-LHE, f/b 2 thru 6, f/b A(T), 51005-LHE, f/b 2 thru 6, f/b Y(T), 51005-LHE, f/b 2, f/b 1 thru 12, f/b Y(T), 51006-LHE f/b 2, f/b 1 thru 12, f/b A2 or AW, 51006-LHE f/b 2 thru 6, f/b A2 or AW

Connector, Model(s) 51006-LHE followed by 2, followed by 1 thru 12, followed by A(T)

Connector, Model(s) 51006-LHE, f/b 2 thru 6, f/b A(T), 51006-LHE, f/b 2 thru 6, f/b Y(T), 51006-LHE, f/b 2, f/b 1 thru 12, f/b Y(T), 5102-LHE f/b 2, f/b 1 thru 12, f/b A2 or AW, 5102-LHE f/b 2 thru 6, f/b A2 or AW

Connector, Model(s) 5102-LHE followed by 2, followed by 1 thru 12, followed by A(T)

Connector, Model(s) 5102-LHE, f/b 2 thru 6, f/b A(T), 5102-LHE, f/b 2 thru 6, f/b Y(T), 5102-LHE, f/b 2, f/b 1 thru 12, f/b Y(T), 5240-LHE f/b 2, f/b 1 thru 12, f/b A2 or AW, 5240-LHE f/b 2 thru 6, f/b A2 or AW

Connector, Model(s) 5240-LHE followed by 2, followed by 1 thru 12, followed by A(T)

Connector, Model(s) 5240-LHE, f/b 2 thru 6, f/b A(T), 5240-LHE, f/b 2 thru 6, f/b Y(T), 5240-LHE, f/b 2, f/b 1 thru 12, f/b Y(T), 5500-LHE f/b 2, f/b 1 thru 12, f/b A2 or AW, 5500-LHE f/b 2 thru 6, f/b A2 or AW

Connector, Model(s) 5500-LHE followed by 2, followed by 1 thru 12, followed by A(T)

Connector, Model(s) 5500-LHE, f/b 2 thru 6, f/b A(T), 5500-LHE, f/b 2 thru 6, f/b Y(T), 5500-LHE, f/b 2, f/b 1 thru 12, f/b Y(T), 5557 followed by 2 thru 6, followed by A(T), 5557 followed by 2 thru 6, followed by A2 or AW, 5557 followed by 2 thru 6, followed by Y(T)

Connector, Model(s) 5557 followed by 2, followed by 1 thru 12, followed by A(T).

- Connector**, Model(s) 5557 followed by 2, followed by 1 thru 12, followed by A2 or AW
- Connector**, Model(s) 5557 followed by 2, followed by 1 thru 12, followed by Y(T)
- Connector**, Model(s) 5559-LHE f/b 2 , f/b 1 thru 12, f/b A2 or AW, 5559-LHE f/b 2 thru 6, f/b A2 or AW
- Connector**, Model(s) 5559-LHE followed by 2, followed by 1 thru 12, followed by A(T).
- Connector**, Model(s) 5559-LHE, f/b 2 thru 6 , f/b A(T), 5559-LHE, f/b 2 thru 6, f/b Y(T), 5559-LHE, f/b 2, f/b 1 thru 12 , f/b Y(T), 5566-LHE f/b 2 , f/b 1 thru 12, f/b A2 or AW, 5566-LHE f/b 2 thru 6, f/b A2 or AW
- Connector**, Model(s) 5566-LHE followed by 2, followed by 1 thru 12, followed by A(T)
- Connector**, Model(s) 5566-LHE, f/b 2 thru 6 , f/b A(T), 5566-LHE, f/b 2 thru 6, f/b Y(T), 5566-LHE, f/b 2, f/b 1 thru 12 , f/b Y(T), 5569-LHE f/b 2 , f/b 1 thru 12, f/b A2 or AW, 5569-LHE f/b 2 thru 6, f/b A2 or AW
- Connector**, Model(s) 5569-LHE followed by 2, followed by 1 thru 12, followed by A(T)
- Connector**, Model(s) 5569-LHE, f/b 2 thru 6 , f/b A(T), 5569-LHE, f/b 2 thru 6, f/b Y(T), 5569-LHE, f/b 2, f/b 1 thru 12 , f/b Y(T), 5600-LHE f/b 2 , f/b 1 thru 12, f/b A2 or AW, 5600-LHE f/b 2 thru 6, f/b A2 or AW
- Connector**, Model(s) 5600-LHE followed by 2, followed by 1 thru 12, followed by A(T)
- Connector**, Model(s) 5600-LHE, f/b 2 thru 6 , f/b A(T), 5600-LHE, f/b 2 thru 6, f/b Y(T), 5600-LHE, f/b 2, f/b 1 thru 12 , f/b Y(T), 63080-LHE f/b 2 , f/b 1 thru 12, f/b A2 or AW, 63080-LHE f/b 2 thru 6, f/b A2 or AW
- Connector**, Model(s) 63080-LHE followed by 2, followed by 1 thru 12, followed by A(T)
- Connector**, Model(s) 63080-LHE, f/b 2 thru 6 , f/b A(T), 63080-LHE, f/b 2 thru 6, f/b Y(T), 63080-LHE, f/b 2, f/b 1 thru 12 , f/b Y(T), B2502 followed by 2 thru 16, followed by Y(T), BH3.5-2A(T), BH3.5-2Y(T), MX3.0 followed by 2 thru 12, followed by A(T), MX3.0 followed by 2 thru 12, followed by A2 or AW, MX3.0 followed by 2 thru 12, followed by Y(T)
- Connector**, Model(s) MX3.0 followed by 2, followed by 1 thru 12, followed by A(T).
- Connector**, Model(s) MX3.0 followed by 2, followed by 1 thru 12, followed by A2 or AW
- Connector**, Model(s) MX3.0 followed by 2, followed by 1 thru 12, followed by Y(T)
- Connector**, Model(s) PA-LHE f/b 2, f/b 1 thru 12, f/b Y(T), PA-LHE followed by 2 thru 12, followed by A(T)
- Connector**, Model(s) PA-LHE followed by 2 thru 12, followed by A2 or AW
- Connector**, Model(s) PA-LHE followed by 2 thru 12, followed by Y(T)
- Connector**, Model(s) PA-LHE followed by 2, followed by 1 thru 12, followed by A(T)
- Connector**, Model(s) PA-LHE followed by 2, followed by 1 thru 12, followed by A2 or AW
- Connector**, Model(s) PH, PHB, XHB, JC25, SCN followed by -2 thru -20, followed by Y(T), A, AW or AWD
- Connector**, Model(s) PHB followed by 2 thru 16, followed by Y(T). followed by 2 thru 16, followed by AWD, A, AW
- Connector**, Model(s) Series 1.25, 1254, 1255 followed by -2 thru -25, followed by Y(T), A or AW
- Connector**, Model(s) Series 5264 followed by -2 thru -16, followed by Y(T), A or AWD
- Connector**, Model(s) SM followed by -2 thru -18, followed by Y(T) or A(T)
- Connector**, Model(s) VH, 3.96 followed by -2 thru -16, followed by Y(T), A, AW or AWG
- Connector**, Model(s) XA-LHE f/b 2, f/b 1 thru 12, f/b Y(T), XA-LHE followed by 2 thru 12, followed by A(T)
- Connector**, Model(s) XA-LHE followed by 2 thru 12, followed by A2 or AW
- Connector**, Model(s) XA-LHE followed by 2 thru 12, followed by Y(T)
- Connector**, Model(s) XA-LHE followed by 2, followed by 1 thru 12, followed by A(T)
- Connector**, Model(s) XA-LHE followed by 2, followed by 1 thru 12, followed by A2 or AW
- Connector**, Model(s) XH followed by -2 thru -20, followed by Y(T), A, AW, AWGD, AWD or AWGDJ
- Connector**, Model(s) ZH followed by 2 thru 16, followed by AWD or A, ZH followed by 2 thru 16, followed by Y(T).

Model(s) 1.25, followed by -2 thru -16, followed by AB or AWB

Model(s) 51146 or FI-S, followed by -2 thru -16, followed by AB or AWB

Model(s) A5001, followed by -2 thru -7, followed by Y, Y(T), AD or AWD

Model(s) B2501-LHE, A2004-LHE, A4203-LHE, PHR-LHE, PHD-LHE, CH2.5-LHE, DF11-LHE, PHSD-LHE, A5001-LHE, 35155-LHE, 35156-LHE, 5195-LHE, 5196-LHE, followed by 2 thru 16, followed by Y(T)

Model(s) BHS-LHE, SMH250-LHE, SMH200-LHE, L6.2-LHE, 1806-LHE, 2060-LHE, 2541-LHE, JC15-LHE, XHD-LHE, followed by -2, followed by A(T), or Y(T)

Model(s) JWPFLHE, B2541-LHE, NV-LHE, DV-LHE, SGN-LHE, SJN-LHE, SDN-LHE, SIN-LHE, 35150-LHE, 35151-LHE, 35180-LHE, 35182-LHE, 35524-LHE, 35965-LHE, RCY-LHE, LC-LHE, VR-LHE, SHJ-LHE, SHL-LHE, DF19-LHE, ACH-LHE, DF13-LHE, IL-Z-LHE, 51146-LHE, SATA-LHE, XSR-LHE, SUR-LHE, SUH-LHE, ZE-LHE, ZND-LHE, ZPD-LHE, A1502-LHE, SFH-LHE, 51004-LHE, PUD-LHE, A20010-LHE, 35507-LHE, DF3-LHE, PND-LHE, RE-LHE, RA-LHE, RF-LHE or A3963, followed by -2 thru -15, followed by Y(T), YB(T) or YC(T), A, A-K, AW, AW-K, AD, AD-K, AWGD, AWGD-K, AQ, AQ-K, AWQ, AWQ-K, AD(BH) or AD(BH)-K.

Model(s) PH, followed by -2 thru -16, followed by AB or AWB

Model(s) PHB, SZN-LHE, SAN-LHE, JC20-LHE, EH-LHE, EI-LHE, EL-LHE, S-EL-LHE, followed by 2 thru 16, followed by AWD, A, AW

Model(s) PHB, SZN-LHE, SAN-LHE, JC20-LHE, EH-LHE, EI-LHE, EL-LHE, S-EL-LHE, followed by 2 thru 16, followed by Y(T)

Model(s) PHB, XH, XHB or XHBD, followed by -2 thru -16, followed by AB or AWB.

Model(s) RAST 5-LHE TAB HEADER ASSY , TH, Vertical, Cat. Nos. 1969738-LHE, 1969740-LHE, 1971845-LHE, 1971846-LHE, 1971895-LHE, 1971896-LHE, 1971946-LHE thru 1971949-LHE, 1971954-LHE thru 1971957-LHE, 2232008-LHE thru 2232011-LHE, 2232000-LHE thru 2232003-LHE, 2232016-LHE thru 2232019-LHE, 1971962-LHE thru 1971965-LHE, 2232024-LHE thru 2232027-LHE, 2232289-LHE thru 2232292-LHE, 2232043-LHE thru 2232074-LHE, 2232298-LHE thru 2232301-LHE, 2232511-LHE, 2232532-LHE, 2232557-LHE, 2232559-LHE, 2232560-LHE, 2232562-LHE, 2232563-LHE, 2232565-LHE, 2232566-LHE, 2232568-LHE, 2232569-LHE, 2232571-LHE, 2232572-LHE, 2232574-LHE, 2232575-LHE, 2232577-LHE, 2232578-LHE, 2232580-LHE, 2232581-LHE, 2232583-LHE, 2232584-LHE, 2232586-LHE, 2232587-LHE, 2232589-LHE, 2232590-LHE, 2232592-LHE, 2232593-LHE, 2232595-LHE, 2232596-LHE, 2232598-LHE, 2232599-LHE, 2232601-LHE, 2232602-LHE, 2232604-LHE, 2232605-LHE, 2232607-LHE, 2232608-LHE, 2232611-LHE thru 2232682-LHE, 2292457-LHE, 2292458-LHE, may incorporate prefix and/or suffix number.), followed by -2 thru -7, followed by Y, Y(T), AD or AWD.

Model(s) SY, followed by -2, followed by Y, Y(T), A or A(T)

Model(s) SYP, SYR, BH4.0-LHE, A10001-LHE, A7501-LHE, A8001-LHE, C2541-LHE, C2542-LHE, D250R-LHE, D280K-LHE, D300R-LHE, D350R-LHE, D400B-LHE, D430R-LHE, D470G-LHE, D480J-LHE, D480K-LHE, D480N-LHE, D480Q-LHE, D520H-LHE, D520K-LHE, D520Q-LHE, D620G-LHE, D630J-LHE, D630N-LHE, D630Q-LHE, D700G-LHE, F001-LHE, F002-LHE, HIF3-LHE, MC100-LHE, MC100-LHE, ME020-LHE, ME010-LHE, F2541-LHE, D2301-LHE, 1719057-LHE, 1719059-1-LHE, P0011-LHE, P0012-LHE, P0013-LHE, C6001-LHE, D2201-LHE, D2202-LHE or P0001-LHE, followed by -2, followed by Y, Y(T), A or A(T).

Model(s) VL-LHE , YL-LHE, SL-LHE, FL-LHE, YHD200-LHE, HA-LHE, LGC-LHE, JR-LHE, SP-LHE, 5025-LHE, followed by 2, followed by 1 thru 12, followed by A(T), Y(T), A2 or AW


Model(s) VL-LHE, YL-LHE, SL-LHE, FL-LHE, YHD200-LHE, HA-LHE, LGC-LHE, JR-LHE, SP-LHE, 5025-LHE, followed by 2 thru 12, followed by A(T), Y(T), A2 or AW

Model(s) XHD, XHE or XHQ, followed by -2 thru -15, followed by Y(T), YB(T) or YC(T), A, A-K, AW, AW-K, AD, AD-K, AWGD, AWGD-K, AQ, AQ-K, AWQ, AWQ-K, AD(BH) or AD(BH)-K.

Model(s) ZH, followed by -2 thru -16, followed by AB or AWB

Model(s) ZHR-LHE, SH-LHE, GH-LHE, NH-LHE, C1251-LHE, DF14-LHE, 5501-LHE, 75416-LHE, 543-LHE, followed by 2 thru 16, followed by AWD or A

Model(s) ZHR-LHE, SH-LHE, GH-LHE, NH-LHE, C1251-LHE, DF14-LHE, 5501-LHE, 75416-LHE, 543-LHE, followed by 2 thru 16, followed by Y(T)

Marking: Company name or trademark  , model designation and the Recognized Component Mark,



on the device or carton.

Last Updated on 2020-02-20

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产品认证证书

证书编号: CQC17134174484

发证日期: 2021年01月20日

有效期至: 2025年08月31日

委托人名称 浙江联和电子有限公司
及注册地址 浙江省乐清市乐清湾港区乐商创业园

制造商名称 浙江联和电子有限公司
及注册地址 浙江省乐清市乐清湾港区乐商创业园

生产企业名称 浙江联和电子有限公司
及生产地址 浙江省乐清市乐清湾港区创新路8号

产品名称和系列、规格、型号 连接器聚酰胺 66(PA66)
 型号见附件, 材料名称: 聚酰胺 (PA66), 材料牌号: A3RV0, 全色, 球压:200°C, 灼热丝可燃性指数(GWFI):960/0.3, 灼热丝起燃温度(GWIT):960/0.3, 燃烧等级:V-0@0.3mm,CTI600, 红外光谱,差示扫描量热和热重分析见报告 00601-2020134003037

产品标准和技术要求 GB/T 5169.21-2017, GB/T 5169.12-2013, GB/T 5169.13-2013, GB/T 5169.16-2017, GB/T 4207-2012, GB/T 6040-2019, GB/T 19466.1-2004, GB/T 19466.2-2004, GB/T 19466.3-2004, ISO 11358-1:2014

认证模式 产品检测+获证后监督

上述产品符合 CQC13-036047-2009 认证规则的要求, 特发此证。
 证书有效期内本证书的有效性依据发证机构的定期监督获得保持。

可通过扫描下方二维码或登录国家认监委网站 (www.cnca.gov.cn) 查验证书信息



签发: 陆杨

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Verification No.: CLZJ1411264692



VERIFICATION OF LVD COMPLIANCE

Applicant: Zhejiang Lianhe Electrical Co., Ltd.
 Houyu village, Shifan town, Yueqing city, Zhejiang province, China.

Manufacturer: Same as applicant

Product Description: Connector Terminal

Model No: A1001, A1002, A1003, A1251, A1252, A1253, A1254, A1255, A1256, A1257, A1501, A1502, A1503, A2001, A2002, A2003, A2004, A2005, A2006, A2007, A2501, A2502, A2503, A2504, A2505, A2506, A2507, A2541, A2542, A2543, A2544, A2545, A3961, A3962, A3963, A3564, A5081, A5082, B1501, B1502, B2001, B2002, B2501, B2502, C01581, C01582, C1251, C2001, C2002, C2501, C2502, C2505, C2506, C3001, C3002, C3003, C3004, C3005, C3006, C3501, C3502, C3701, C3702, C4001, C4002, C4141, C4142, C4201, C4202, C4203, C4204, C4601, C4602, C4501, C4502, C4503, C4504, C5001, C5002, C5031, C5032, C6201, C6202, C6351, C6352, C6701, C6702, D2801, D2802, D2803, D4801, D4802, D4803, D4804, D6301, D6302, D6303

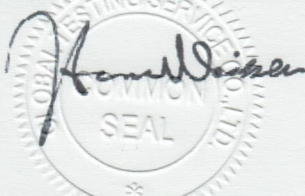
Sufficient samples of the product have been tested and found to be in conformity with
Test Standard: EN 60320-1:2001/A1:2007
 EN 60529:1991/A1:2000

As shown in the
Test Report Number(s): TLZJ1411264692
Date of issue: November 27, 2014

Conclusion

This Verification of LVD Compliance has been granted to the applicant based on the results of tests, performed by laboratory of Global Testing Services Co., Ltd on sample of the above-mentioned product in accordance with the provisions of the relevant specific standards and the Low Voltage Directive 2014/35/EU. The CE marking as shown below can be affixed, under the responsibility of the manufacturer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives. The affixing of the CE marking presumes in addition that conditions the conditions in annexes III and IV of the Directive are fulfilled.

Approved by: Hermann Weiher



Global Testing Services Co., Ltd
 E-mail: info@gts-lab.com http://www.gts-lab.com
 Room 1501-1502, No. 520 Yishan Rd., Xuhui District, Shanghai, 200235 China



For and on behalf of
 Global Testing Services Co., Ltd



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PRODUCT CERTIFICATION

CERTIFICATE NO.: CQC17134174484
Valid from: Jan.20,2021
Valid until: Aug.31,2025

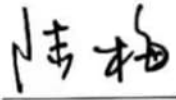
NAME AND REGISTERED ADDRESS OF THE APPLICANT	Zhejiang Lianhe Electronics Co., Ltd. Yueshang Pioneer Park, Yueqingwan Area, Yueqing City, Zhejiang Province
NAME AND REGISTERED ADDRESS OF THE MANUFACTURER	Zhejiang Lianhe Electronics Co., Ltd. Yueshang Pioneer Park, Yueqingwan Area, Yueqing City, Zhejiang Province
NAME AND LOCATION OF THE FACTORY	Zhejiang Lianhe Electronics Co., Ltd. No. 8, Chuangxin Road, Yueqing Bay Port District, Yueqing City, Zhejiang Province
PRODUCT NAME, MODEL AND SPECIFICATION	Connector (PA66) See Annex , Material name: PA66, material grade: A3RV0, All color, Ball pressure:200°C, Glow-Wire Flammability Index(GWFI): 960/0.3, Glow-Wire Ignition Temperature(GWIT):960/0.3, Flammability:V-0@0.3mm, CTI600 , Infrared Analysis,Differential Scanning Calorimetry(DSC), Thermogravimetry (TG) to see report Ref.No: 00601-2020134003037
THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS	GB/T 5169.21-2017, GB/T 5169.12-2013, GB/T 5169.13-2013, GB/T 5169.16-2017, GB/T 4207-2012, GB/T 6040-2019, GB/T 19466.1-2004, GB/T 19466.2-2004, GB/T 19466.3-2004, ISO 11358-1:2014
TYPE OF CERTIFICATION SCHEMES	Product Testing + Follow up Factory Inspection

This is to certify that the above mentioned product(s) complies with the requirements of certification rules of CQC13-036047-2009.
The validity of the certificate is subject to positive result of the regular follow up inspection by issuing certification body until the expiry date.

The certificate information is available through the QR code below or CNCA's website: www.cnca.gov.cn





SIGNATURE: 



CHINA QUALITY CERTIFICATION CENTRE

<http://www.cqc.com.cn>
Section 9, No.188, Nansihuan Xilu, Beijing 100070 P.R.China
Tel: +86 10 83886666

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CQC has issued an IQNet recognized certificate that the organization:
ZheJiang Lianhe Electronics Co.,Ltd.

Registered Address: Yueqing Bay Port Area, Yueqing City, Wenzhou City, Zhejiang Province, P.R.China
 Operation Address: No.8 Innovation Road, Yueqing Bay Port Area, Yueqing City, Wenzhou City, Zhejiang Province, P.R.China

has implemented and maintains an
Environmental Management System

for the following scope:

Design and Production of Connector and Related Management Activities

which fulfils the requirements of the following standard:

GBT 24001-2016 / ISO 14001:2015

Issued on: February 12, 2020

Expires on: February 11, 2023

Registration Number: CN00120E30414R0S/3302

This attestation is directly linked to the IQNet Partner's original certificate and shall not be used as a stand-alone document



Alex Stoichitoiu
 President of IQNet

Lu Mei
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检测
TESTING
CNAS L0599

检测报告

编号: SHAEC24005901604

日期: 2024年04月18日

第1页, 共11页

客户名称: 浙江联和电子有限公司
客户地址: 浙江省乐清市乐清湾港区乐商创业园
浙江省乐清市乐清湾港区电子信息产业园红旗路8号

样品名称: PA66 连接器
型号: XHD-5A
客户参考信息: 见附件
以上样品及信息由客户提供。

SGS 工作编号: TIC10202403261730301GRQ
样品接收时间: 2024年04月02日
检测周期: 2024年04月02日 ~ 2024年04月15日
检测要求: 根据客户要求检测。
检测方法: 见后续页。
检测结果: 见后续页。

检测要求	结论
欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉、六价铬、多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP)	符合
欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉和六价铬	符合

通标标准技术服务(上海)有限公司
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Jenny Lan 兰柳珍
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Member of the SGS Group (SGS SA)

SGS

检测报告

编号: SHAEC24005901604

日期: 2024年04月18日

第2页, 共11页

检测结果:

检测部件外观描述:

样品序号	样品编号	SGS 样品 ID	样品描述
SN1	A1	SHA24-0059016-0001.C001	白色塑料部分
SN2	A2	SHA24-0059016-0001.C002	银色金属

备注:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL= 方法检测限
- (3) ND = 未检出(< MDL)
- (4) "-" = 未规定

欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉、六价铬、多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁基酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP)

检测方法: 参考 IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 和 IEC 62321-8:2017, 采用 ICP-OES/AAS, UV-Vis 和 GC-MS 进行分析。

检测项目	限值	单位	MDL	A1
铅 (Pb)	1000	mg/kg	2	ND
汞 (Hg)	1000	mg/kg	2	ND
镉 (Cd)	100	mg/kg	2	ND
六价铬 (Cr(VI))	1000	mg/kg	8	ND
多溴联苯之和 (PBB)	1000	mg/kg	-	ND
一溴联苯 (MonoBB)	-	mg/kg	5	ND
二溴联苯 (DiBB)	-	mg/kg	5	ND
三溴联苯 (TriBB)	-	mg/kg	5	ND
四溴联苯 (TetraBB)	-	mg/kg	5	ND
五溴联苯 (PentaBB)	-	mg/kg	5	ND
六溴联苯 (HexaBB)	-	mg/kg	5	ND
七溴联苯 (HeptaBB)	-	mg/kg	5	ND
八溴联苯 (OctaBB)	-	mg/kg	5	ND
九溴联苯 (NonaBB)	-	mg/kg	5	ND
十溴联苯 (DecaBB)	-	mg/kg	5	ND
多溴二苯醚之和 (PBDE)	1000	mg/kg	-	ND
一溴二苯醚 (MonoBDE)	-	mg/kg	5	ND
二溴二苯醚 (DiBDE)	-	mg/kg	5	ND
三溴二苯醚 (TriBDE)	-	mg/kg	5	ND
四溴二苯醚 (TetraBDE)	-	mg/kg	5	ND
五溴二苯醚 (PentaBDE)	-	mg/kg	5	ND
六溴二苯醚 (HexaBDE)	-	mg/kg	5	ND



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检测报告

编号: SHAEC24005901604

日期: 2024年04月18日

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检测项目	限值	单位	MDL	A1
七溴二苯醚 (HeptaBDE)	-	mg/kg	5	ND
八溴二苯醚 (OctaBDE)	-	mg/kg	5	ND
九溴二苯醚 (NonaBDE)	-	mg/kg	5	ND
十溴二苯醚 (DecaBDE)	-	mg/kg	5	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND

备注:

- (1) 最大允许限值引用自 RoHS 指令(EU) 2015/863。
(2) IEC 62321 系列等同于 EN 62321 系列。
(3) 2021年7月22号开始, DEHP, BBP, DBP 和 DIBP 的限制适用于医疗器械, 包括体外医疗器械, 监控仪表, 包括工业监测和控制仪器。

欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉和六价铬

检测方法: 参考 IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013 和 IEC 62321-7-1:2015, 采用 ICP-OES/AAS 和 UV-Vis 进行分析。

检测项目	限值	单位	MDL	A2
铅 (Pb)	1000	mg/kg	2	21
汞 (Hg)	1000	mg/kg	2	ND
镉 (Cd)	100	mg/kg	2	ND
六价铬 (Cr(VI))▼	-	µg/cm ²	0.10	ND

备注:

- (1) 最大允许限值引用自RoHS指令(EU) 2015/863。
(2) IEC 62321系列等同于 EN 62321系列。
(3) ▼ = a. 当六价铬的浓度高于0.13 µg/cm²时, 样品为阳性, 即含有六价铬;
b. 当六价铬的浓度为ND (低于0.10 µg/cm²) 时, 样品为阴性, 即未检测到六价铬;
c. 当六价铬的浓度介于0.10 µg/cm²与0.13 µg/cm²之间时, 无法直接判定是否检测到六价铬, 因不同个体的样品表面差异可能会影响测定结果。

由于未获知样品的存储条件和生产日期, 样品的六价铬检测结果仅能代表检测时样品含六价铬的状态。

除非另有说明, 参照 ILAC-G8:09/2019, 使用简单接受 (w=0) 的二元判定规则进行符合性判定。

除非另有说明, 此报告结果仅对检测的样品负责。本报告未经本公司书面许可, 不可部分复制。



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编号: SHAEC24005901604

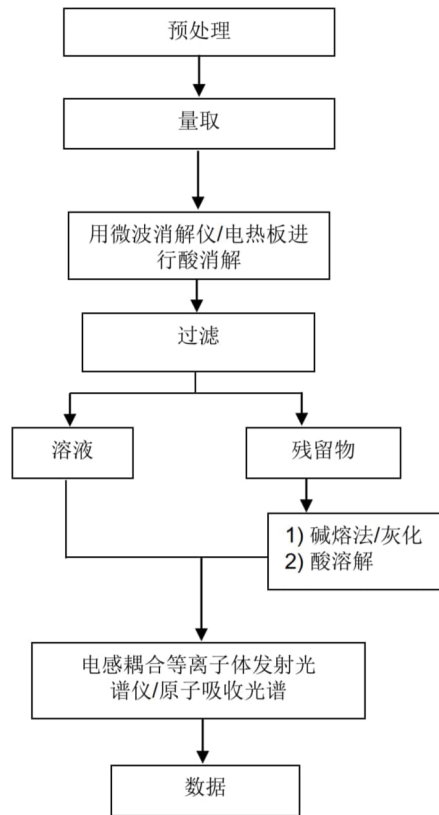
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附件

元素检测流程图

样品按照下述流程被完全消解



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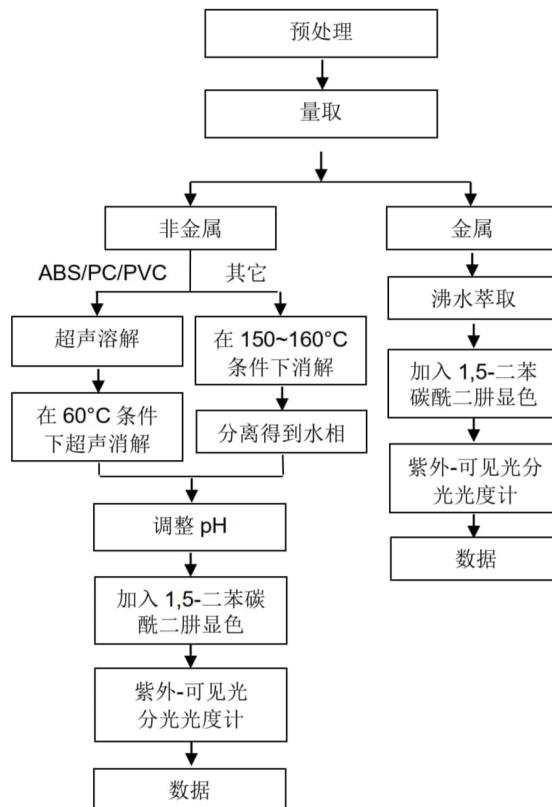
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附件

六价铬检测流程图



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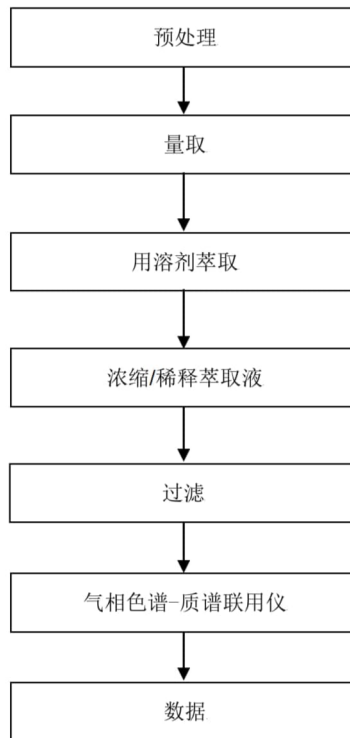
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PBB/PBDE 检测流程图



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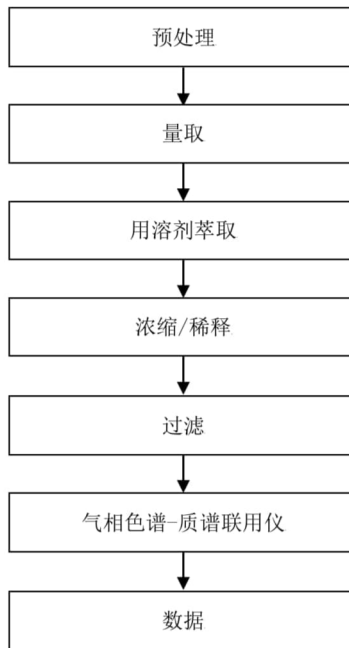
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Phthalates 检测流程图



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编号: SHAEC24005901604

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编号: SHAEC24005901604

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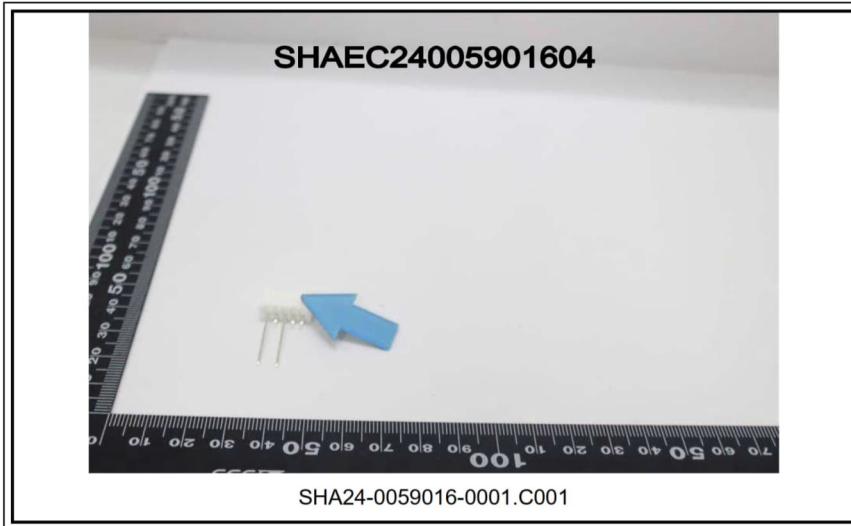
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检测报告

编号: SHAEC24008425816

日期: 2024年05月07日

第1页, 共8页

客户名称: 浙江联和电子有限公司
客户地址: 浙江省乐清市乐清湾港区乐商创业园
浙江省乐清市乐清湾港区电子信息产业园红旗路8号

样品名称: 端子针
客户参考信息: 见附件
以上样品及信息由客户提供。

SGS 工作编号: TIC1020240424174615KLN9
样品接收时间: 2024年04月26日
检测周期: 2024年04月26日~2024年05月07日
检测要求: 根据客户要求检测。
检测方法: 见后续页。
检测结果: 见后续页。

检测要求	结论
欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉和六价格	符合

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检测报告

编号: SHAEC24008425816

日期: 2024年05月07日

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检测结果:

检测部件外观描述:

样品序号	样品编号	SGS 样品 ID	样品描述
SN1	A3	SHA24-0084258-0001.C003	银色金属

备注:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL= 方法检测限
- (3) ND = 未检出 (< MDL)
- (4) "-" = 未规定

欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉和六价铬

检测方法: 参考 IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013 和 IEC 62321-7-1:2015, 采用 ICP-OES/AAS 和 UV-Vis 进行分析。

检测项目	限值	单位	MDL	A3
铅 (Pb)	1000	mg/kg	2	37
汞 (Hg)	1000	mg/kg	2	ND
镉 (Cd)	100	mg/kg	2	ND
六价铬 (Cr(VI)) [▼]	-	µg/cm ²	0.10	ND

备注:

- (1) 最大允许限值引用自RoHS指令(EU) 2015/863。
- (2) IEC 62321系列等同于 EN 62321系列。
- (3) [▼] =
 - a. 当六价铬的浓度高于0.13 µg/cm²时, 样品为阳性, 即含有六价铬;
 - b. 当六价铬的浓度为ND (低于0.10 µg/cm²) 时, 样品为阴性, 即未检测到六价铬;
 - c. 当六价铬的浓度介于0.10 µg/cm²与0.13 µg/cm²之间时, 无法直接判定是否检测到六价铬, 因不同个体的样品表面差异可能会影响测定结果。

由于未获知样品的存储条件和生产日期, 样品的六价铬检测结果仅能代表检测时样品含六价铬的状态。

除非另有说明, 参照 ILAC-G8:09/2019, 使用简单接受 (w=0) 的二元判定规则进行符合性判定。

除非另有说明, 此报告结果仅对检测的样品负责。本报告未经本公司书面许可, 不可部分复制。



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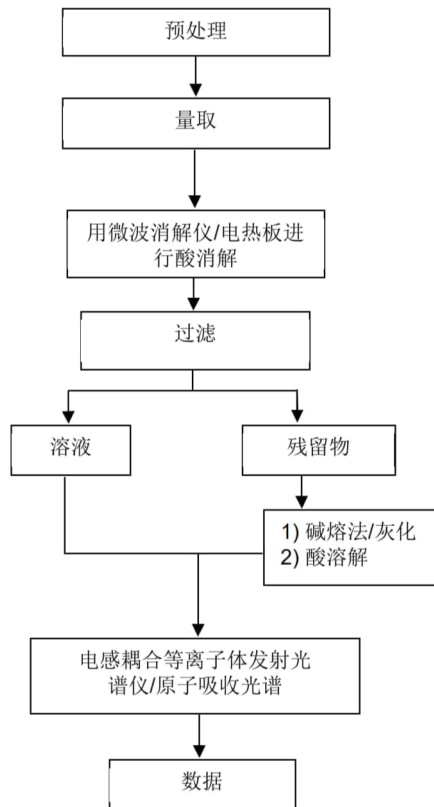
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附件

元素检测流程图

样品按照下述流程被完全消解



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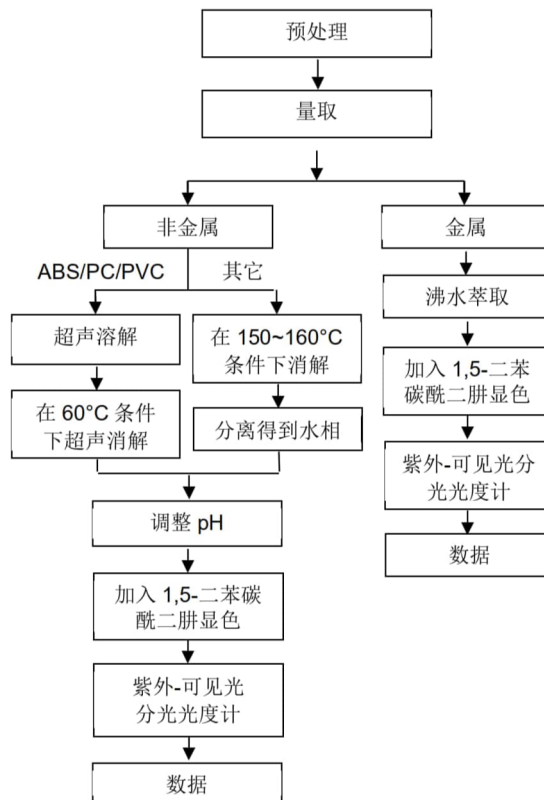
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附件

六价铬检测流程图



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检测报告

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A2010 A2011 A2012 A2013 A2014 A2015 A2016 A2017 A2018
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P0010 P0011 P0012 P0013 P0014 P0015 P0016 P0017 P0018
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编号: SHAEC24008425816

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D2301 D2302 D2303 D2304 D2305 D2306 D2307 D2308 D2309
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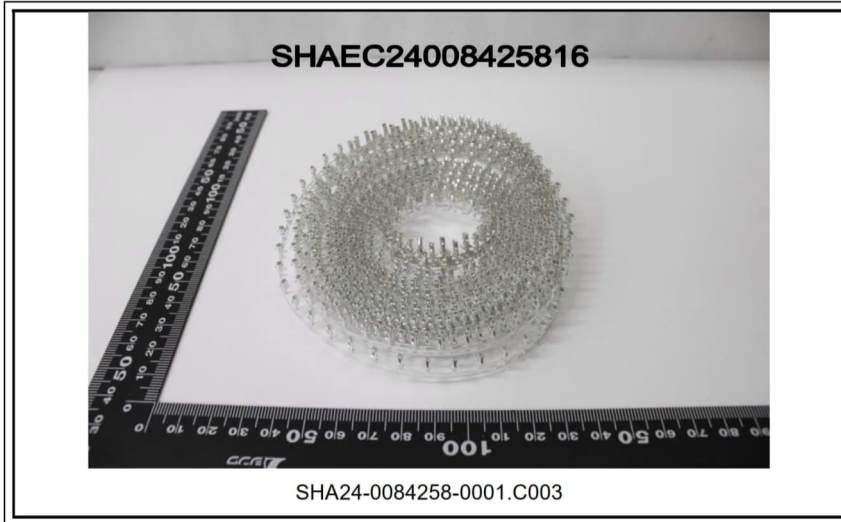
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检测报告

编号: SHAEC24008219302

日期: 2024年04月29日

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客户名称: 浙江联和电子有限公司
客户地址: 浙江省乐清市乐清湾港区乐商创业园
浙江省乐清市乐清湾港区电子信息产业园红旗路8号

样品名称: LCP 连接器
型号: 1.25-4AB
客户参考信息: 见附件
以上样品及信息由客户提供。

SGS 工作编号: TIC1020240423173125DXY5
样品接收时间: 2024年04月24日
检测周期: 2024年04月24日 ~ 2024年04月29日
检测要求: 根据客户要求检测。
检测方法: 见后续页。
检测结果: 见后续页。

检测要求	结论
欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉、六价铬、多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP)	符合

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Jenny Lan 兰柳珍
批准签署人



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编号: SHAEC24008219302

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检测结果:

检测部件外观描述:

样品序号	样品编号	SGS 样品 ID	样品描述
SN1	A1	SHA24-0082193-0001.C001	米色塑料部分

备注:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL= 方法检测限
- (3) ND = 未检出 (< MDL)
- (4) "-" = 未规定

欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉、六价铬、多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP)

检测方法: 参考 IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 和 IEC 62321-8:2017, 采用 ICP-OES/AAS, UV-Vis 和 GC-MS 进行分析。

检测项目	限值	单位	MDL	A1
铅 (Pb)	1000	mg/kg	2	7
汞 (Hg)	1000	mg/kg	2	ND
镉 (Cd)	100	mg/kg	2	ND
六价铬 (Cr(VI))	1000	mg/kg	8	ND
多溴联苯之和 (PBB)	1000	mg/kg	-	ND
一溴联苯 (MonoBB)	-	mg/kg	5	ND
二溴联苯 (DiBB)	-	mg/kg	5	ND
三溴联苯 (TriBB)	-	mg/kg	5	ND
四溴联苯 (TetraBB)	-	mg/kg	5	ND
五溴联苯 (PentaBB)	-	mg/kg	5	ND
六溴联苯 (HexaBB)	-	mg/kg	5	ND
七溴联苯 (HeptaBB)	-	mg/kg	5	ND
八溴联苯 (OctaBB)	-	mg/kg	5	ND
九溴联苯 (NonaBB)	-	mg/kg	5	ND
十溴联苯 (DecaBB)	-	mg/kg	5	ND
多溴二苯醚之和 (PBDE)	1000	mg/kg	-	ND
一溴二苯醚 (MonoBDE)	-	mg/kg	5	ND
二溴二苯醚 (DiBDE)	-	mg/kg	5	ND
三溴二苯醚 (TriBDE)	-	mg/kg	5	ND
四溴二苯醚 (TetraBDE)	-	mg/kg	5	ND
五溴二苯醚 (PentaBDE)	-	mg/kg	5	ND
六溴二苯醚 (HexaBDE)	-	mg/kg	5	ND
七溴二苯醚 (HeptaBDE)	-	mg/kg	5	ND
八溴二苯醚 (OctaBDE)	-	mg/kg	5	ND

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检测项目	限值	单位	MDL	A1
九溴二苯醚 (NonaBDE)	-	mg/kg	5	ND
十溴二苯醚 (DecaBDE)	-	mg/kg	5	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND
邻苯二甲酸丁基酯 (BBP)	1000	mg/kg	50	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND

备注:

- (1) 最大允许限值引用自 RoHS 指令(EU) 2015/863。
 - (2) IEC 62321 系列等同于 EN 62321 系列。
 - (3) 2021年7月22号开始, DEHP, BBP, DBP 和 DIBP 的限制适用于医疗器械, 包括体外医疗器械, 监控仪表, 包括工业监测和控制仪器。
- 除非另有说明, 参照 ILAC-G8:09/2019, 使用简单接受 (w=0) 的二元判定规则进行符合性判定。
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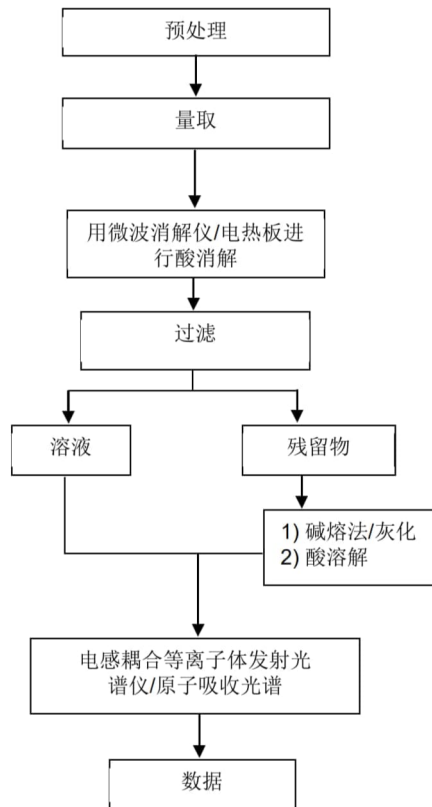
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附件

元素检测流程图

样品按照下述流程被完全消解



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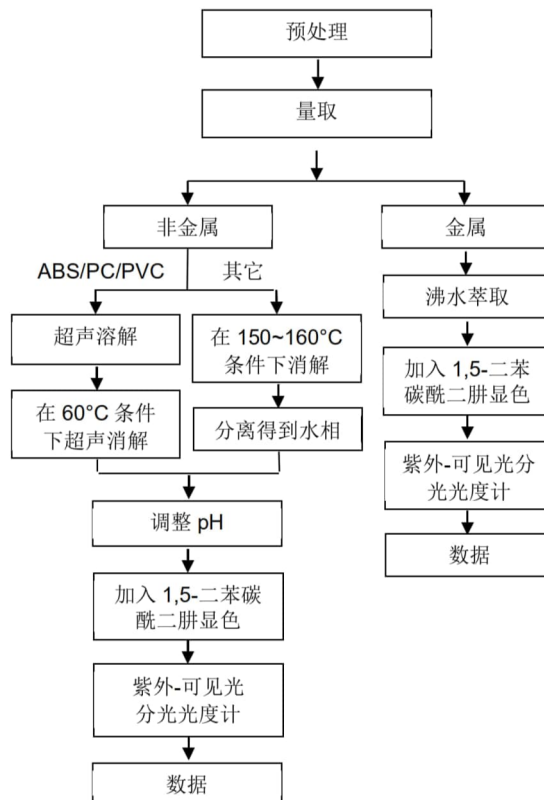
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六价铬检测流程图



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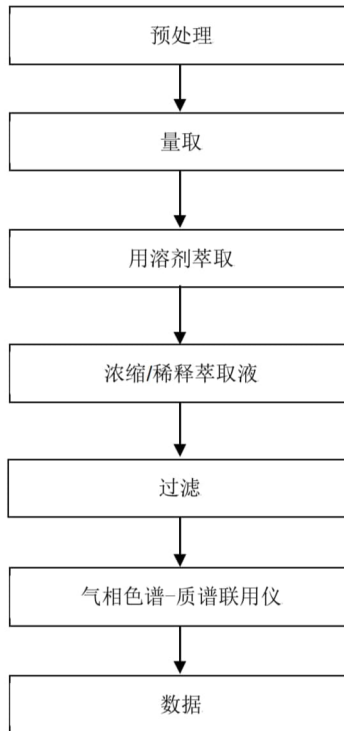
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附件

PBB/PBDE 检测流程图



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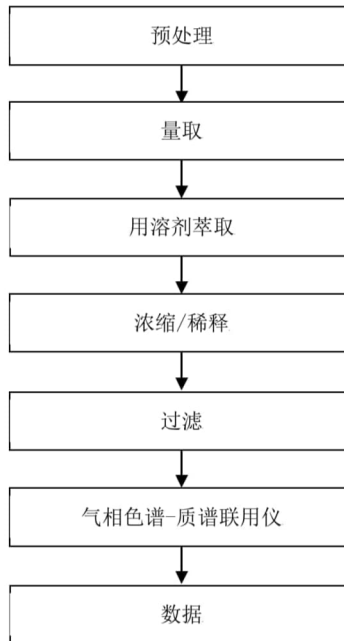
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附件

Phthalates 检测流程图



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1.0, SH, SHD, 1.25, 51021, DF14, DF13, GH, ZH, PH, PHB, PA, PHSD, DF11, C1251, 51047, 51146, FI-S, PHD, YHD200, PA, SMP, SMW, SMH, SMH200, SMH200-H, YH200, 20039WR, 杜邦 2.0, XH/TJC3, XA, HA, XHB, XHD, XHE, EH, EI, 小四 P, 5263, 5264, 5267, 5268, SZN, SAN, SCN, SCND, JC15, JC20, JC25, 5102, 5240, SMH250, SMP250, SMW250, 25048HS, 25045HP, SM, TJC8, 杜邦 2.54, TJC8A, 杜邦带锁, TJC8B, TJC8H, 5051, 2510, 美尚美, 43640, 43645, 43020, 43025, 5500, 5600, VH, VHRR, YH396, VHR, 35156, 2139, 3.96, 90331, 5195, 5196, 39612, FL, 5557, 5559, 5566, 5569, SL, RV42, EL, YL, 小 EL, 8981, 大四 P, 5058, 5.08, L6.2, VL, VLP/VLR, TJC2, TJC2A, TJC2B, TJC4, TJC1, 1806, MX3.0, 1.58, 51005, 51006, BH3.5, BH4.0, 63080, 51004, TJC15, A4203, CL014, OTP, MKH, SA, Cy-X201, 35108, 35150, 35151, 35152, 35180, 35965, 42021, 42022, 42002, 35955, SA, SCS, 35189, 35196, CH10, CH2.5, 543, SLP, SLR, YHL500, YWL500, FFC, FPC, 20030, 250, LGC, S11, YH025, 35155, 25415, 5197, 5198, 110, 2.8, 6.3, SCS

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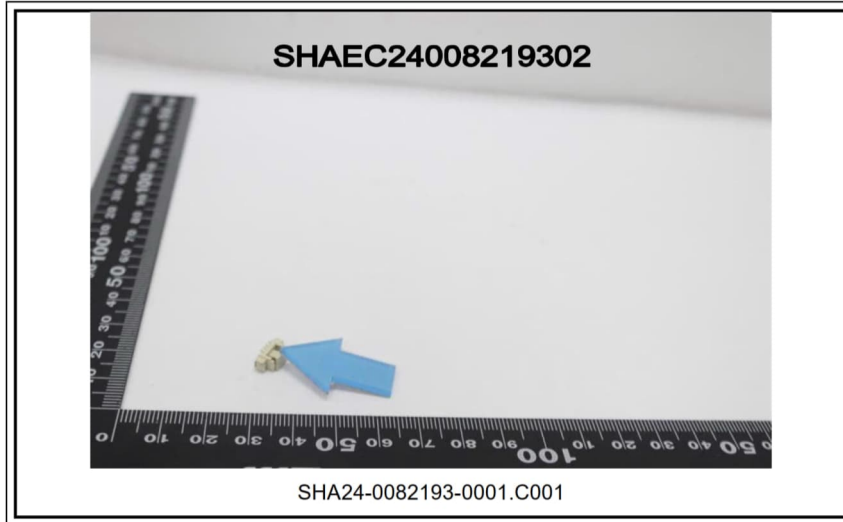
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产品名称: PA66

版本日期: 15/03/2017

化学品安全说明书

MSDS

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产品名称: PA66

产品别名: 聚酰胺

责任方: 浙江联和电子有限公司

一般用途: 工程热塑性塑料

MSDS编号: PA66



第二部分: 合成物或成分信息

组成部分: 成分 CAS号码基础树脂 32131-17-2这是一种聚合物材料。所有成分和聚合物系统紧密结合, 因此, 目前正常的加工和处理情况下没有存在接触的可能性。本产品可能含有专利成分。根据美国《职业安全与卫生条例》, 本产品没有被归类为危险品, 此化学品安全说明书包含关于安全处理和合理使用本产品的有价值的信息。该说明书应妥善保管以便员工或其他使用该产品的用户使用。本产品不受加拿大《工作场所危险物质信息系统》管制。

第三部分: 危险鉴定

紧急情况概述: 轻微的不规则颗粒状。燃烧分解可能会产生有危害性的气体基础树脂粉尘或粉末在美国矿务局相关粉尘爆炸的危害等级为低级。熔料可能会导致皮肤或眼睛接触性的热灼伤。此外, 溢出的固体硬颗粒可能会造成滑倒的危险。

潜在健康影响: 接触方式: 皮肤和眼睛接触; 气体吸入, 如果温度过热的话。征兆症状: 没有相关的具体资料。

即刻健康影响:

皮肤: 本产品没有相关的具体资料。产品中可能含有的聚合物颗粒和纤维增强也可能造成机械性的伤害。热性或熔化材料有潜在的可能导致热灼伤。

眼睛: 本产品没有相关的具体资料。产品中可能含有的聚合物颗粒和纤维增强也可能造成机械性的伤害。

吸入:

本产品没有相关的具体资料。从供应的形式来看, 本产品不存在被吸入的危险; 然而聚合物颗粒可能被认为一种惰性的微害颗粒。加热过程中可能会有产生刺激性气体的危险。

摄入:

本产品没有相关的具体资料。但是, 基于高分子聚合物的生物活性, 摄取本产品预计会造成轻微的毒性。

长期或滞后影响:

没有相关的具体资料。

致癌性:

国际癌症研究机构 (IARC) 曾评估过本产品中可能含有的碳黑, 并发现它可能对人类有致癌性 (2B组)。本产品中的任何碳黑成分都被聚合物体系紧密结合, 因此, 目前正常的加工和处理情况下致癌的几率很小。

医疗条件

风险加剧:

本产品没有相关的具体资料。废气可能会被释放, 如果过热的话, 会影响那些有呼吸系统慢性疾病的人。

第四部分：急救措施

皮肤：如果烫的或熔化的聚合物或者热气接触皮肤，迅速用冷水降温。如果聚合物被粘在皮肤上，不要擅自去除，但是允许粘附的聚合物自然脱落，应寻求医学处理。相比聚合物随着时间推移自行脱落而言，擅自去除粘在皮肤上的聚合物，可能会造成更多的组织损伤。

眼睛：用大量的水冲洗。如果仍旧不舒适，应寻求医疗处理，去除异物。

吸入：转移到空气新鲜之处。如果呼吸困难的情况仍然发生，应寻求医学处理。

摄入：如果相当数量的本产品被吞咽，应饮用两杯水来稀释，并寻求医学处理。

医生注意事项：本产品本质上是惰性和无毒的。然而，如果被加热到高温或被燃烧，可能会有气体排放出来（见第五和第十部分的气体排放）。在这些排放的气体中，一氧化碳和一氧化氮均有可能具有显著的临床毒性。那些曾暴露在有毒气体中的患者需要检查碳氧血红蛋白水平和动脉血气。如果一个酸中毒患者的碳氧血红蛋白水平是正常的，考虑氰化物毒性。如果患者与气体的接触发生在密闭空间内，则存在窒息（二氧化碳逐渐替代氧气）发生的可能性。一氧化氮对呼吸道有着强烈的刺激性。如果患者可能已经吸入高浓度和刺激性的烟雾，应考虑监测肺水肿病延后发生的可能。

第五部分：救火措施

闪点：不适用

危险燃烧产物：一氧化碳、二氧化碳和氮氧化物

灭火介质：水、泡沫材料、二氧化碳或干化学制

剂灭火指南：消防人员应携带自给式呼吸器和全套防护服。消防人员避免逆风救火。水应该用来给火灾中各种容器的降温。水、泡沫和干化学制剂可能会对电器设备造成损伤。

第六部分：意外泄漏对策

泄漏处理程序：用适当工具清扫泄漏场所，收集泄漏物料，以便恢复和处理。

第七部分：处理和储藏

处理：没有合适的器械，不要处理烫的或者熔化的物料。工作场所应保持整洁有序。不要超过推荐的温度，使分解产物的释放最小化。不要在有聚合物粉尘存在的场所抽烟。在传输和加工的过程中，应采取恰当的措施控制粉尘的产生和积累。

储藏：储藏在阴凉干燥的场所，保证树脂的干燥度。

第八部分：接触控制 / 个人防护

工程控制：局部排气：建议在适当的时候以控制员工接触粉尘或蒸汽。总体而言，作为控制员工暴露在粉尘或者蒸汽中的唯一手段，此办法恐怕不能满足需要。

装备推荐：

皮肤：加热或熔化过程中，有机会接触物料时应穿着长裤、长袖、隔热手套和面罩。

眼睛：推荐安全眼罩。

吸入：如果粉尘或分解气体的产生有可能高于所允许接触的上限值，推荐使用经国家职业安全与健康研究所认证的防毒面罩 / 口罩。

接触指导方针：本产品中可能含有的任何玻璃颗粒被聚合物系统紧密结合。残留的玻璃颗粒（<1%）可能存在，导致机械性的眼部、皮肤和呼吸刺激。包括机械加工或磨削在内的操作或部分应加以审查，以确保颗粒水平低于推荐的标准，本产品可能含有炭黑。见下列的接触极限值。

成分	机构	参数
炭黑	美国职业安全与健康条例 -允许接触极限 美国政府工业卫生专家会议 -临界值限定	3.5 mg/cu m 3.5 mg/cu m
微害惰性粉尘	美国职业安全与健康条例 -允许接触极限	15 mg/cu m (全部) 5 mg/cu m (可吸入)
微害颗粒/微粒	美国政府工业卫生专家会议 -临界值限定	10 mg/cu m (全部) 3 mg/cu m (可吸入)

第九部分：物理和化学特性

外观：颗粒状物
 气味：轻微的典型气味
 物理状态：固态
 气压：不适用
 熔点（树脂）： 265°C（509°F）
 溶解性：可忽略不计 <0.1%（水）
 比重： 1.40~1.50
 挥发率：<0.5按重量计

第十部分：稳定性和反应性

化学稳定性：在通常使用和储存条件下保持稳定
 避免条件：燃烧：不要加热超过 650°F（ 343°C）。避免长时间暴露在温度高于 600°F（316°C）的环境。
 不能共存性：强酸和氧化剂
 危险分解物：一氧化碳、氨 /氨水、脂族胺、氨基化合物/酰胺、酮、腈和氢氰酸。
 危险聚合反应：不会发生。

第十一部分：毒理学信息

本产品没有相关的具体资料。

第十二部分：生态学信息

生物毒性：对于树脂颗粒可能被野生动物摄入所造成的影响，我们还不是很清楚。如果是海鸟，一些海洋生物学家认为，鸟类消化道可能无法让塑料颗粒通过。因此，大量摄入颗粒可能会导致肠堵塞，饱食的错觉或营养吸收的减少，从而导致营养不良和饥饿。由塑料工业协会的发起的‘彻底清除行动’（OCS）的目标就是实现塑料颗粒零损失，防止其输入环境。
 环境结果/信息：此材料被认为是不可生物降解的。

第十三部分：处置条件

处置：鼓励回收。按照当地政策法规处置本产品。

第十四部分：运输信息

不适用

第十五部分：法规信息

<美国>《有毒物质管理法》：
 本产品的所有成分符合有毒物质管理法目录条例。
 <美国>《超级基金增补和再授权法案》： 本产品不包含任何受限于《紧急规划和社区知权法》（1986）第 313章和《联邦法规汇编》第 40标题第 372部分中的报告规定的有毒化学物质。

第十六部分：其它信息

危害等级：	健康	可燃性	反应性	其它
国家防火协会	1	1	0	
危险物质鉴别系统	1	1	0	

否认声明： 本产品不适用于作为医学或牙科植入物的使用。为获取详细的工艺指导和良好的生产实践（净化、工艺参数、停炉等），请参阅相应的大赛璐公告。据我们所知，这里所含的信息是正确的。我们没有暗示或者保证此文件所列出的危险已经包含全部危险。大赛璐不做任何关于在你方工艺或与其他物质结合过程中安全使用本产品的明示或暗示性的保证。本产品的使用效果可能会因为其他材料的使用而恶化；或者说本产品可能增强，也可能恶化其他材料的使用效果。用户有其责任对任何使用或者使用方式加以仔细考虑并确定物料的适用性。用户必须符合所有适用的安全和健康标准。

编号: LHES006		
MSDS		
1. 物品成分与厂商资料		
厂商名称: 浙江联和电子有限公司	物品编号: QSN6.5-0.1	
	物品名称: 磷铜端子	
	纯物质:	
	危害物质成分 (%) 无	
2. 成份辨识资料		
成份名称	化学文摘社登记号码(CAS No.)	浓度范围 (成分百分比 Percentage (%))
铜(Cu)	7440-50-8	余量
磷(P)	7723-14-0	0.0026-0.005%
锌(Zn)	7440-66-6	0.03-0.04%
镍(Ni)	7440-02-0	0.054-0.063%
锑(Sb)	7440-36-0	0.00015%
铅(Pb)	7439-92-1	<0.005%
铁(Fe)	7439-89-6	0.005-0.0059%
纯镍(Ni)	7440-02-0	0.054-0.063%
纯锡(Sn)	7440-31-5	6.2 %
2. 危害辨认资料		
严重危害效应	健康危害效应: 本产品 在固体时不具健康危害及危害	
	环境影响: 本产品 在固体时对环境不具影响	
	物理性及化学性危害: 固体/无味/多色	
	特殊危害: 固体时 (防火或高温) 无特殊危害	
主要症状: 无		
3. 急救措施		
急救方法	吸入: 无吸入	
	皮肤接触: 接触无危害	
	食入: 无食入	
主要症状及危害效应: 无		
4. 灭火措施		
通用灭火器: 二氧化碳, 泡沫, 干粉化学灭火器, 水雾等		
灭火时可能遭遇之特殊危害: 会引起火灾		
消防人员之特殊防护装备: 使用从氧式吸防护具		
5. 泄漏处理方法		
个人应注意事项: 注意工作台面清洁, 作业时及时清洗手		
环境注意事项: 将泄漏之物料以容器盛装以便回收或废弃		
清理方式: 工作台面每天作业前/后须擦拭干净, 建议可以戴手套或手指套作业		
6. 安全处置与储存方法		
处置: 废弃物可送到政府许可的废弃物处理中心进行处理		

储存: 空调仓, 23±5℃, 湿度 65%以下, 仓库里面安装灭火器	
7. 暴露预防措施	
个人防护设备	呼吸防护: 口罩, 一般无此要求, 可以建议采用
	手部防护设备: 手套火手指套, 一般无此要求, 可以建议采用
	眼睛防护: 安全目镜或眼镜
	皮肤及身体防护: 穿工作服, 经常勤洗
卫生措施: 建议使用安全目镜, 进食前应洗手及脸部, 平时多运动, 保持健康体力	
8. 材料及化学性质	
物质状态: 固体	形状: 连接器
颜色: 多色	气味: 无味
PH 值: 未测定	沸点: 未测定
分解温度: 未测定	爆炸界限: 无
自然温度: 固体无	溶解度: 固体无
9. 安全性及反应性	
安全性: 正常状态下安全	
特殊状况下可能之危害反应: 无	
应避免之状况: 避免接触火源和太阳光直照射	
应避免之物质: 火和酸碱性物质	
危害分解物: 无	
10. 毒性资料	
急毒性	吸入: 无
	皮肤接触: 无
	眼睛: 无
局部效应: 无	特殊效应: 无
11. 废弃物处理方法: 废弃物可送到政府许可的废弃物处理中心进行处理	
12. 运送资料	
联合国编号: 无	运输规定: 并无危险分类
运送方法及注意事项: 勿重压, 轻拿轻放	
13. 适用法规: 1.劳工安全卫生设施规划; 2.危害物及有害物通讯规划; 3.索尼环境通用规定; 4.劳工用业环境空气中有害物容许溶度标准; 5.道路交通安全规划	
14. 其他资料:	
15. 法规资料	
适用法规	1.劳工安全卫生设施规则 2.RoHS 法规及有害物通识规则
16. 其它资料	
参考文献	有害化学物质中文资料库, 环保局
制表单位	浙江联和电子有限公司
制造商及供应商地址	浙江省温州乐清市乐清湾港区创新路8号
电话	0577-62383699
制表者	季育文
制表日期	2022-3-23

编号: LHE-S006		
成品 MSDS		
1. 物品成分与厂商资料		
厂商名称: 浙江联和电子有限公司	物品编号: LHE-WF1001	
	物品名称: 黄铜镀锡针	
地址: 浙江省温州市乐清市乐清湾港区创新路8号	纯物质:	
联系电话: 0577-62383699	危害物质成分 (%) 无	
2. 成份辨识资料		
成份名称	化学文摘社登记号码(CAS No.)	浓度范围 (成分百分比 Percentage (%))
铜(Cu)	7440-50-8	64.9%
磷(P)	7723-14-0	0.001%
锌(Zn)	7440-66-6	余量
镍(Ni)	7440-02-0	0.01%
锑(Sb)	7440-36-0	0.001%
铅(Pb)	7439-92-1	<0.009%
铁(Fe)	7439-89-6	<0.1%
纯镍(Ni)	7440-02-0	0.05%
纯锡(Sn)	7440-31-5	0.1%
2. 危害辨认资料		
严重危害效应	健康危害效应: 本产品 在固体时不具健康危害及危害	
	环境影响: 本产品 在固体时对环境不具影响	
	物理性及化学性危害: 固体/无味/多色	
	特殊危害: 固体时 (防火或高温) 无特殊危害	
主要症状: 无		
3. 急救措施		
急救方法	吸入: 无吸入	
	皮肤接触: 接触无危害	
	食入: 无食入	
主要症状及危害效应: 无		
4. 灭火措施		
通用灭火器: 二氧化碳, 泡沫, 干粉化学灭火器, 水雾等		
灭火时可能遭遇之特殊危害: 会引起火灾		
消防人员之特殊防护装备: 使用从氧式吸防护具		
5. 泄漏处理方法		
个人应注意事项: 注意工作台面清洁, 作业时及时清洗手		
环境注意事项: 将泄漏之物料以容器盛装以便回收或废弃		
清理方式: 工作台面每天作业前/后须擦拭干净, 建议可以戴手套或手指套作业		
6. 安全处置与储存方法		
处置: 废弃物可送到政府许可的废弃物处理中心进行处理		

储存：空调仓，23±5℃，湿度 65%以下，仓库里面安装灭火器	
7. 暴露预防措施	
个人防护设备	呼吸防护：口罩，一般无此要求，可以建议采用
	手部防护设备：手套火手指套，一般无此要求，可以建议采用
	眼睛防护：安全目镜或眼镜
	皮肤及身体防护：穿工作服，经常勤洗
卫生措施：建议使用安全目镜，进食前应洗手及脸部，平时多运动，保持健康体力	
8. 物料及化学性质	
物质状态：固体	形状：连接器
颜色：多色	气味：无味
PH 值：未测定	沸点：未测定
分解温度：未测定	爆炸介限：无
自然温度：固体无	溶解度：固体无
9. 安全性及反应性	
安全性：正常状态下安全	
特殊状况下可能之危害反应：无	
应避免之状况：避免接触火源和太阳光直照射	
应避免之物质：火和酸碱性质物质	
危害分解物：无	
10. 毒性资料	
急毒性	吸入：无
	皮肤接触：无
	眼睛：无
局部效应：无	特殊效应：无
11. 废弃物处理方法：废弃物可送到政府许可的废弃物处理中心进行处理	
12. 运送资料	
联合国编号：无	运输规定：并无危险分类
运送方法及注意事项：勿重压，轻拿轻放	
13. 适用法规：1.劳工安全卫生设施规划；2.危害物及有害物通讯规划；3.索尼环境通用规定；4 劳工工业环境空气中有害物容许溶度标准；5 道路交通安全规划	
14. 其他资料：	
15.法规资料	
适用法规	1.劳工安全卫生设施规则 2.RoHS 法规及有害物通识规则
16.其它资料	
参考文献	有害化学物质中文资料库，环保局
制表单位	浙江联和电子有限公司
制造商及供应商地址	浙江省温州乐清市乐清湾港区创新路8号
电话	0577-62383699
制表者	陈浙海
制表日期	2022-3-23

