承　认　书
SPECIFCATION FOR APPROVAL

客户名称 CUSTOMER: _____

品名 DESCRIPTION: SMH250型条形连接器

料号 CUSERTOMER PART NO: C2507&C2508&A2502

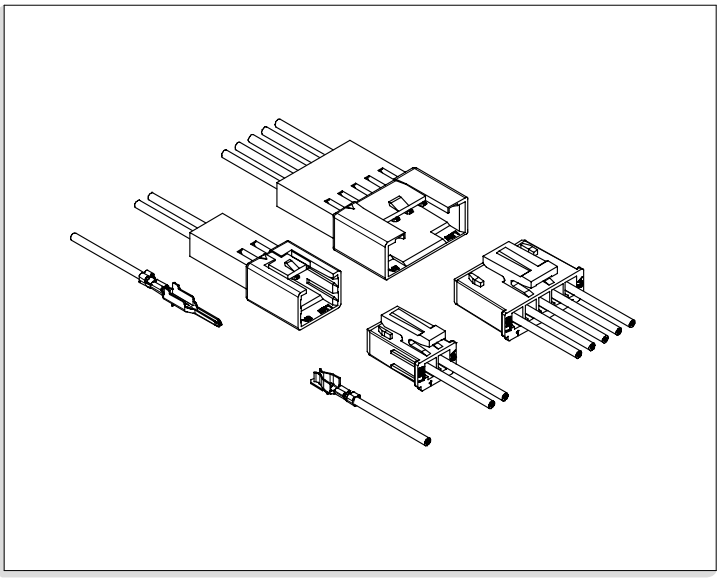
客户确认 APPROVED SIGNATURES

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

1. 极数 Poles: 2 to 15P
2. 额定电流 Current rating: 3.0A AC,DC
3. 额定电压 Voltage rating: 250V AC,DC
4. 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)
5. 接触电阻 Contact resistance: 初期 Initial value / ≤10mΩ
   环境测试后 After environmental testing / ≤20mΩ
6. 绝缘电阻 Insulation resistance: ≥1000MΩ
7. 耐电压 Withstanding voltage: 1000V AC/minute
8. 适用线规 Applicable wire: AWG #28 to #22
9. 适用基板厚度 Applicable PC board thickness: 1.2~1.6mm

浙江联和电子有限公司　地址: 浙江省乐清市乐清港湾区创新路8号
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目录(COVER) 1

料号说明(DESCRIPTION OF ITEM NUMBER) 2

图纸(DRAWING) 5

产品性能测试(PERFORMANCE TEST) 37

实验报告(TEST REPORT) 42

认证(CERTIFICATION) 46

PA66 RoHS报告(PA66 RoHS REPORT) 57

端子 RoHS报告(TERMINAL RoHS REPORT) 68

LCP RoHS 报告(LCP RoHS REPORT) 76

MSDS 87

反馈与建议(FEEDBACK AND SUGGESTIONS) 100

制订 Edit:	王天	日期 DATE:	2024-04-09
审核 Check:	天琴	日期 DATE:	2024-04-09
批准 Approval:	季育文	日期 DATE:	2024-04-09

壳体料号说明 HOUSING

C 2507 - S H B 02 X2 - N* - * - ** - ** - ** - **

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

系列号 Series Number

特征类别(默认空)
Feature Category: S=锁片型

产品类别 H=壳体 Housing
P=密封件 Water Proofing
Product Category: F=配件 Fitting

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)

M为堵孔，*为堵孔序号(例M1.2.5)(无则空)

壳体材料
Housing Material:
1=PA66
2=PA66灼热丝-G
3=PA46
4=PA6T
5=PA9T
6=PBT
7=PPO
8=LCP
9=U=UL
10=PC
11=PA66无卤灼热丝
12=PA66高灼热丝B
13=PA66增强

壳体材料特性
Housing Material Specialty:
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
ZG=灼热丝加玻纤

壳体颜色
Housing Color:
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
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)

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

针座料号说明 WAFER

A 2502 -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 SV=立贴式 V-SMT
Product Category: 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=镀镍氩光锡 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
表面处理 9=镀亮锡局部金 Half Gold-Tin Plating
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 4=PA6T	9=U=UL	
Housing Material: 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,
壳体材料特性 符合GWIT750°C,GWFI960°C
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
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	壳体材料2/3/4/5/8/12默认米色
W=白色 White	壳体材料7默认黑色
壳体颜色 EC=米白 ECRU	壳体材料1/6/9/10/11默认白色
Housing Color: TG=透明绿 Transparent Green	壳体材料13默认透明 (默认可为空)

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

SMH250料号说明 Description of item number

端子料号说明 TERMINAL

C 2507 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=镀镍氩光锡 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
表面处理 9=镀亮锡局部金 Half Gold-Tin Plating
Surface processing: 10=镀镍亮锡 Tin-Nickel Plating

镀层厚度(默认为空)

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 (常规默认为空)

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

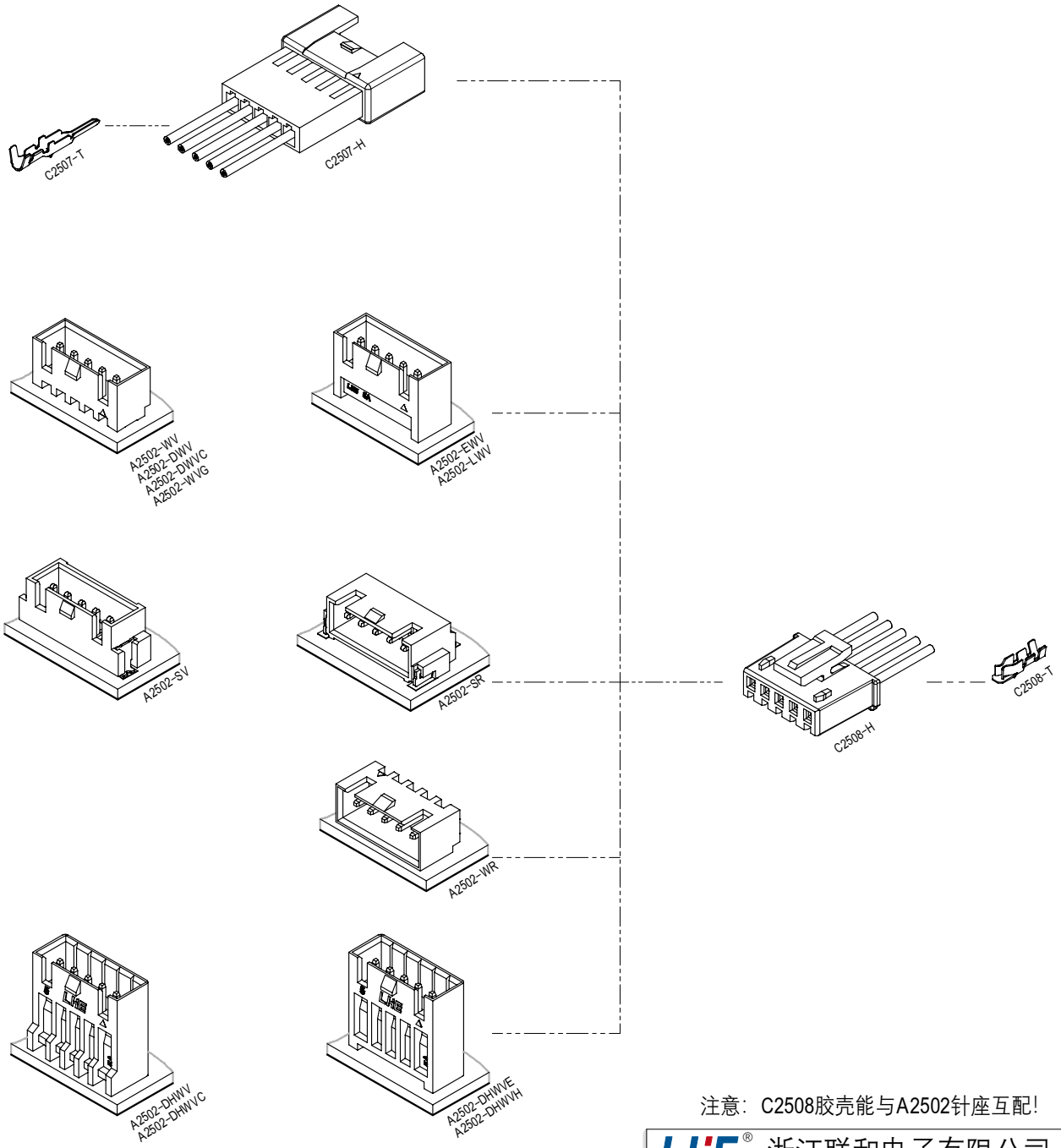
P 0001 - B

P: Other Types

产品序号 Product Number

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

系列说明 Series illustrated

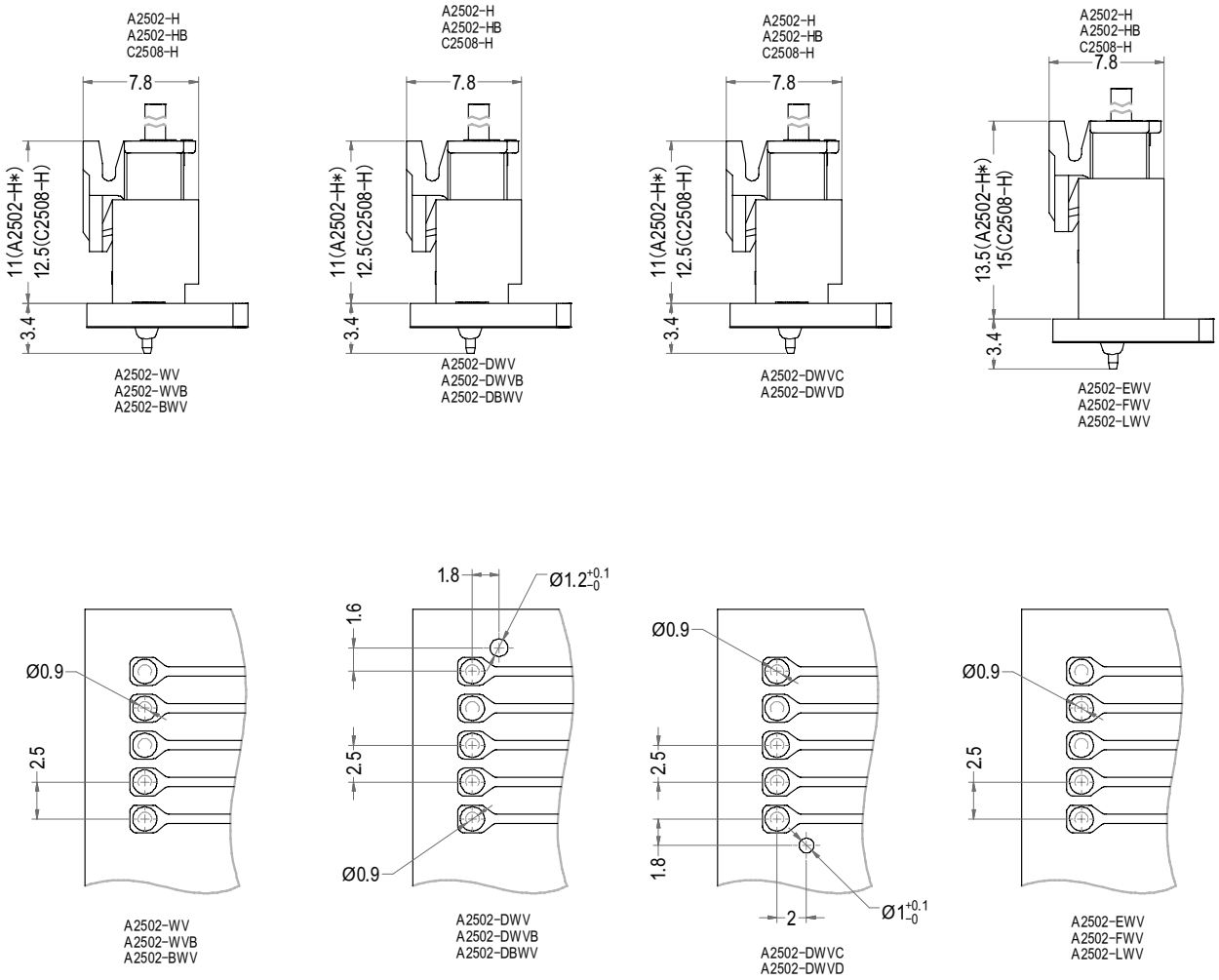


注意：C2508胶壳能与A2502针座互配!

LHE® 浙江联和电子有限公司			
品名	SMH250系列说明	比例	5 : 4
料号	C2507&08系列说明	未注公差(mm)	
图号	LHE\GC-5	>0~3	±0.12
材料	/	>3~18	±0.15
制图	王天2024-04-09	>18~50	±0.3
审核	天琴2024-04-09	>50~120	±0.5
批准	季育文2024-04-09	X°	±3°
视角		X.X°	±0.5°

安装尺寸 Mounting Measurement

立式 Straight Angle(V-Type)

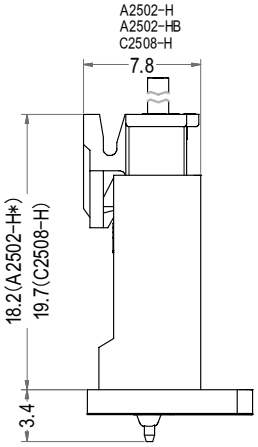


注意:C2508胶壳能与A2502针座互配!

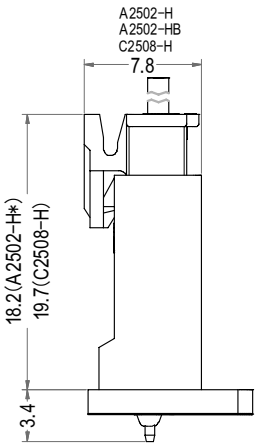
LHE® 浙江联和电子有限公司			
品名	XHB立式安装图示	比例	2:1
料号	A2502立式安装图示	未注公差(mm)	
图号	LHE\GC-6	>0~3	±0.12
材料	/	>3~18	±0.15
制图	王天2024-04-09	>18~50	±0.3
审核	天琴2024-04-09	>50~120	±0.5
批准	季育文2024-04-09	X°	±3°
视角		X.X°	±0.5°

安装尺寸 Mounting Measurement

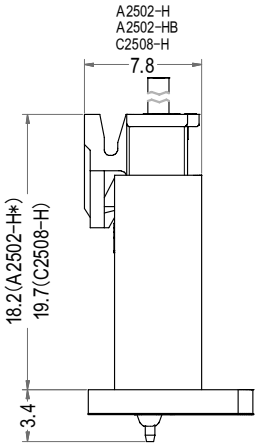
立式 Straight Angle(V-Type)



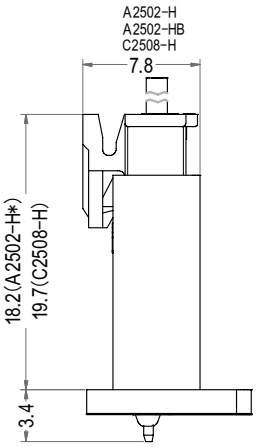
A2502-DHWV
A2502-DHWVB



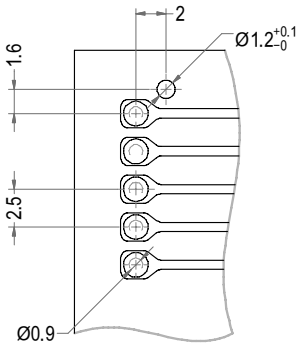
A2502-DHWVC
A2502-DHWVD



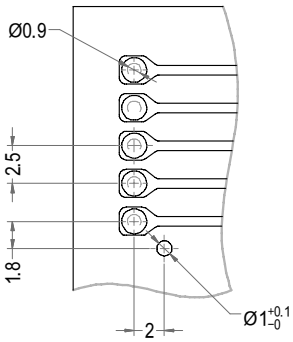
A2502-DHWVE
A2502-DHWVF



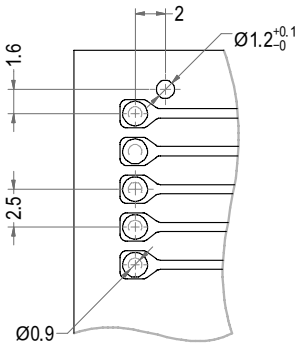
A2502-DHWVH
A2502-DHWVI



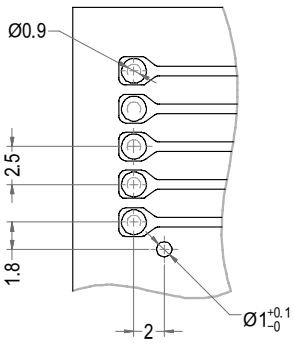
A2502-DHWV
A2502-DHWVB



A2502-DHWVC
A2502-DHWVD



A2502-DHWVE
A2502-DHWVF



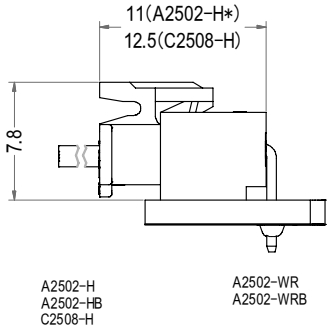
A2502-DHWVH
A2502-DHWVI

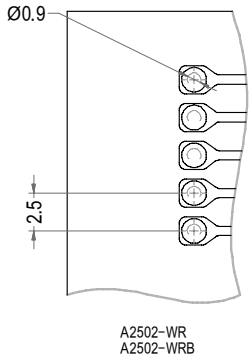
注意:C2508胶壳能与A2502针座互配!

LHE® 浙江联和电子有限公司			
品名	XHB立式安装图示	比例	2 : 1
料号	A2502立式安装图示	未注公差(mm)	
图号	LHE\GC-7	>0~3	±0.12
材料	/	>3~18	±0.15
制图	王天2024-04-09	>18~50	±0.3
审核	天琴2024-04-09	>50~120	±0.5
批准	季育文2024-04-09	X°	±3°
视角		X.X°	±0.5°

安装尺寸 Mounting Measurement

卧式 Right Angle(R-Type)



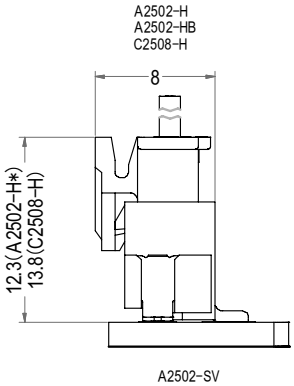


LHE® 浙江联和电子有限公司			
品名	XHB卧式安装图示	比例	2 : 1
料号	A2502卧式安装图示	未注公差(mm)	
图号	LHE\GC-8	>0~3	±0.12
材料	/	>3~18	±0.15
制图	王天2024-04-09	>18~50	±0.3
审核	天琴2024-04-09	>50~120	±0.5
批准	季育文2024-04-09	X°	±3°
视角		X.X°	±0.5°

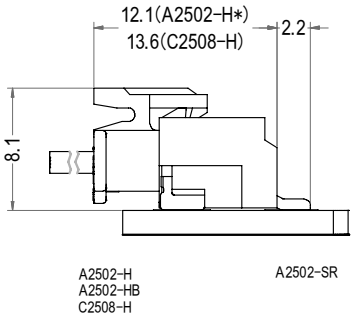
注意:C2508胶壳能与A2502针座互配!

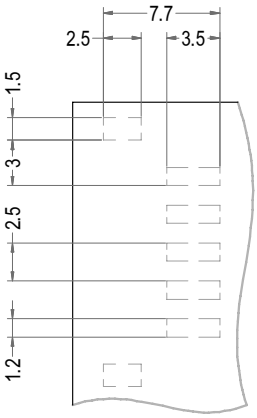
安装尺寸 Mounting Measurement

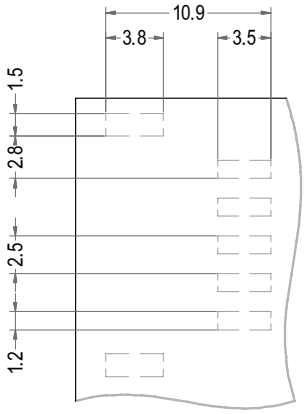
立式 Straight Angle(V-Type)



卧式 Right Angle(R-Type)



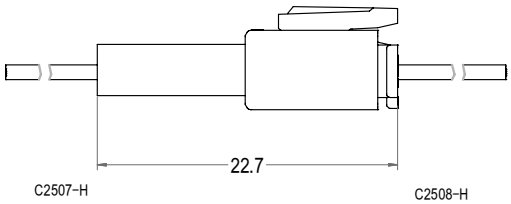




注意:C2508胶壳能与A2502针座互配!

LHE® 浙江联和电子有限公司			
品名	XHB贴片安装图示	比例	2:1
料号	A2502贴片安装图示	未注公差(mm)	
图号	LHE\GC-9	>0~3	±0.12
材料	/	>3~18	±0.15
制图	王天2024-04-09	>18~50	±0.3
审核	天琴2024-04-09	>50~120	±0.5
批准	季育文2024-04-09	X°	±3°
视角		X.X°	±0.5°

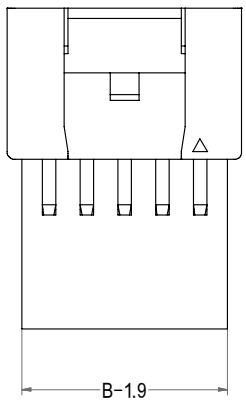
系列说明 Series illustrated



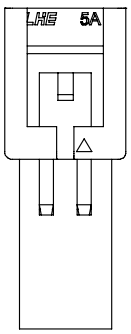
LHE® 浙江联和电子有限公司			
品名	SMH250系列说明	比例	7 : 4
料号	C2507&08系列说明	未注公差(mm)	
图号	LHE\GC-10	>0~3	±0.12
材料	/	>3~18	±0.15
制图	王天2024-04-09	>18~50	±0.3
审核	天琴2024-04-09	>50~120	±0.5
批准	季育文2024-04-09	X°	±3°
视角		X.X°	±0.5°

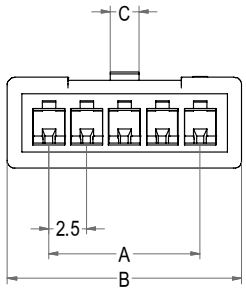
SMH250型连接器承认书图面

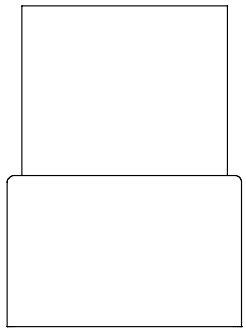
名　　称	材　　料	图　　号	附　　注
基座 Housing	Nylon 66 UL94V-0	LHE\GC-11	White(白色)

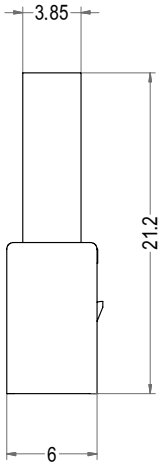


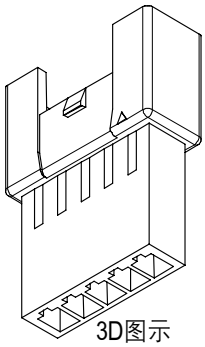
2P~3P











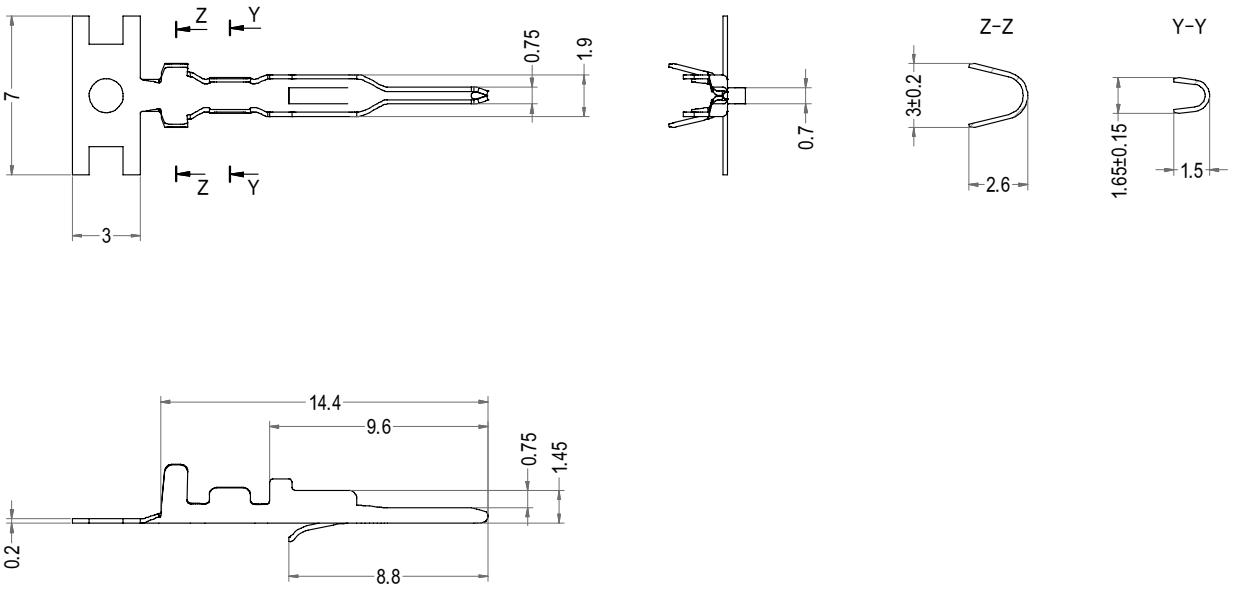
3D图示

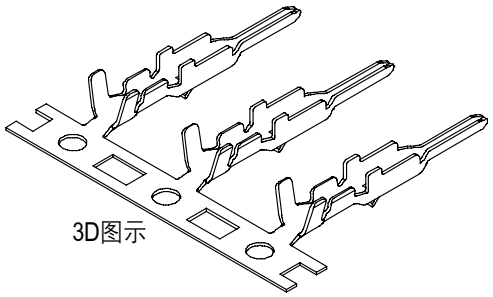
Poles	Part No.	Description	DIM=A	DIM=B	DIM=C
2	C2507-H02	SMH250-2A	2.50	8.00	0.95
3	C2507-H03	SMH250-3A	5.00	10.50	0.95
4	C2507-H04	SMH250-4A	7.50	13.00	1.90
5	C2507-H05	SMH250-5A	10.00	15.50	1.90
6	C2507-H06	SMH250-6A	12.50	18.00	6.90
7	C2507-H07	SMH250-7A	15.00	20.50	9.40
8	C2507-H08	SMH250-8A	17.50	23.00	11.90
9	C2507-H09	SMH250-9A	20.00	25.50	14.40
10	C2507-H10	SMH250-10A	22.50	28.00	16.90
11	C2507-H11	SMH250-11A	25.00	30.50	19.40
12	C2507-H12	SMH250-12A	27.50	33.00	21.90
13	C2507-H13	SMH250-13A	30.00	35.50	24.40
14	C2507-H14	SMH250-14A	32.50	38.00	26.90
15	C2507-H15	SMH250-15A	35.00	40.50	29.40
16	C2507-H16	SMH250-16A	37.50	43.00	31.90

LHE® 浙江联和电子有限公司			
品名	SMH250-A	比例	2 : 1
料号	C2507-H	未注公差(mm)	
图号	LHE\GC-11	>0~3	±0.12
材料	Nylon 66 UL94V-0	>3~18	±0.15
制图	王天2024-04-09	>18~50	±0.3
审核	天琴2024-04-09	>50~120	±0.5
批准	季育文2024-04-09	X°	±3°
视角		X.X°	±0.5°

SMH250型连接器承认书图面

名　　称	材　　料	图　　号	附　　注
端子 Terminal	Phosphor Bronze	LHE\GC-12	



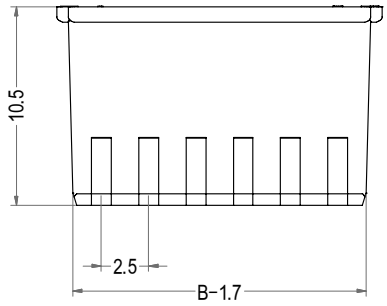


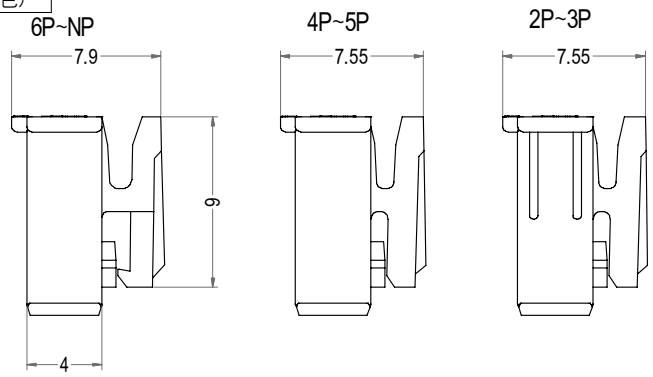
Part No.	Description	Finish	Qty/reel
C2507-TP	SMH250-AT	Tin	9,000pcs

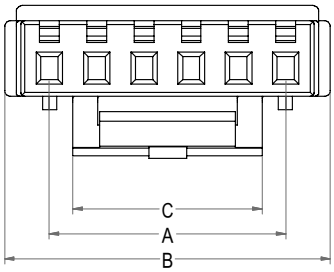
LHE® 浙江联和电子有限公司			
品名	SMH250-AT	比例	3 : 1
料号	C2507-TP	未注公差(mm)	
图号	LHE\GC-12	>0~3	±0.12
材料	Phosphor Bronze	>3~18	±0.15
制图	王天2024-04-09	>18~50	±0.3
审核	天琴2024-04-09	>50~120	±0.5
批准	季育文2024-04-09	X°	±3°
视角		X.X°	±0.5°

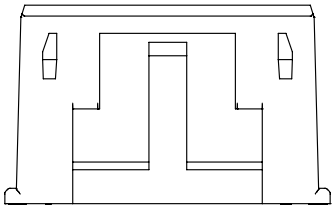
SMH250型连接器承认书图面

名　　称	材　　料	图　　号	附　　注
基座 Housing	Nylon 66 UL94V-0	LHE\GC-13	White(白色)

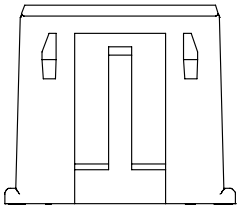




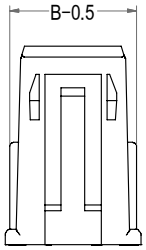




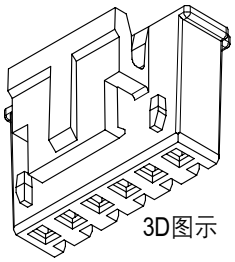
6P~NP



4P~5P



2P~3P



3D图示

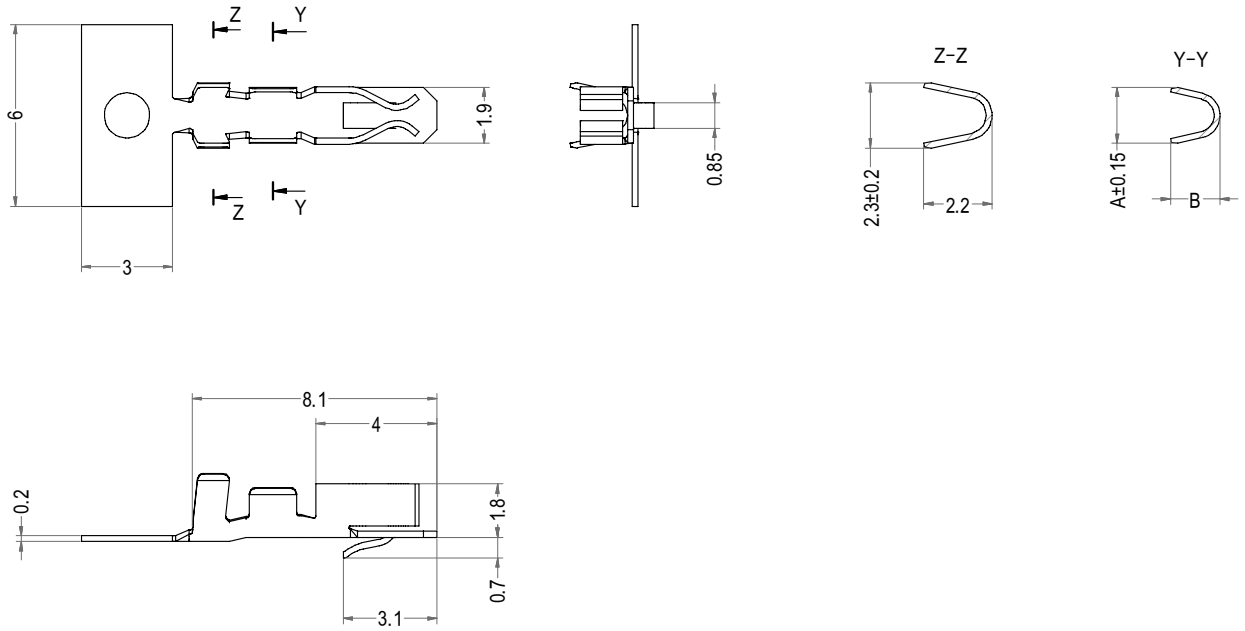
注意:C2508胶壳能与A2502针座互配!

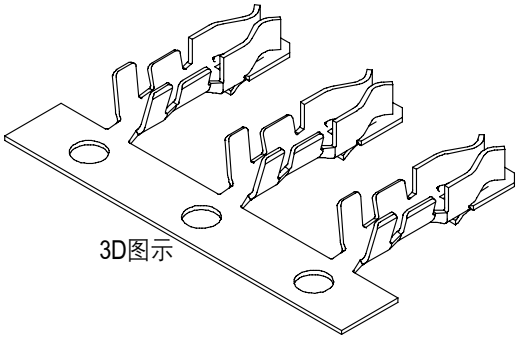
Poles	Part No.	Description	DIM=A	DIM=B	DIM=C
2	C2508-H02	SMH250-2Y	2.50	7.20	3.00
3	C2508-H03	SMH250-3Y	5.00	9.70	3.00
4	C2508-H04	SMH250-4Y	7.50	12.20	4.80
5	C2508-H05	SMH250-5Y	10.00	14.70	4.80
6	C2508-H06	SMH250-6Y	12.50	17.20	10.00
7	C2508-H07	SMH250-7Y	15.00	19.70	10.00
8	C2508-H08	SMH250-8Y	17.50	22.20	12.50
9	C2508-H09	SMH250-9Y	20.00	24.70	12.50
10	C2508-H10	SMH250-10Y	22.50	27.20	15.00
11	C2508-H11	SMH250-11Y	25.00	29.70	15.00
12	C2508-H12	SMH250-12Y	27.50	32.20	17.50
13	C2508-H13	SMH250-13Y	30.00	34.70	17.50
14	C2508-H14	SMH250-14Y	32.50	37.20	17.50
15	C2508-H15	SMH250-15Y	35.00	39.70	17.50

LHE® 浙江联和电子有限公司			
品名	SMH250-Y	比例	5 : 2
料号	C2508-H	未注公差(mm)	
图号	LHE\GC-13	>0~3	±0.12
材料	Nylon 66 UL94V-0	>3~18	±0.15
制图	王天2024-04-09	>18~50	±0.3
审核	天琴2024-04-09	>50~120	±0.5
批准	季育文2024-04-09	X°	±3°
视角		X.X°	±0.5°

SMH250型连接器承认书图面

名　　称	材　　料	图　　号	附　　注
端子 Terminal	Phosphor Bronze	LHE\GC-14	





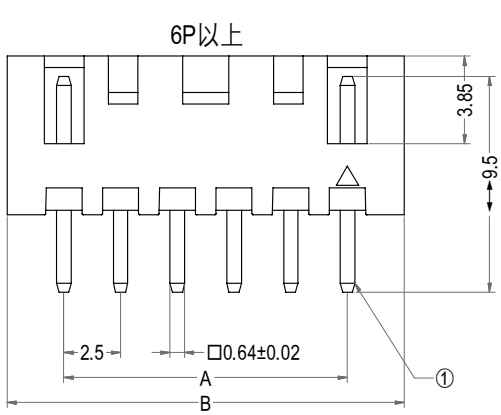
Part No.	Description	DIM=A	DIM=B	Finish	Qty/reel
C2508-TP	SMH250-YT	1.80	1.60	Tin	11,000pcs
C2508-T12P	SMH250-YT12	1.50	1.25	Tin	11,000pcs

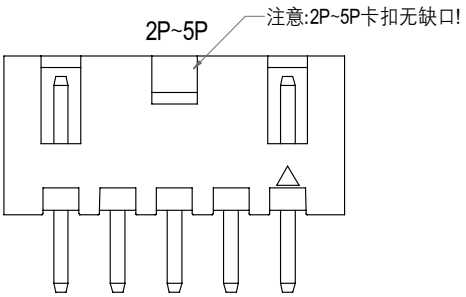
LHE® 浙江联和电子有限公司			
品名	SMH250-YT	比例	4 : 1
料号	C2508-TP	未注公差(mm)	
图号	LHE\GC-14	>0~3	±0.12
材料	Phosphor Bronze	>3~18	±0.15
制图	王天2024-04-09	>18~50	±0.3
审核	天琴2024-04-09	>50~120	±0.5
批准	季育文2024-04-09	X°	±3°
视角		X.X°	±0.5°

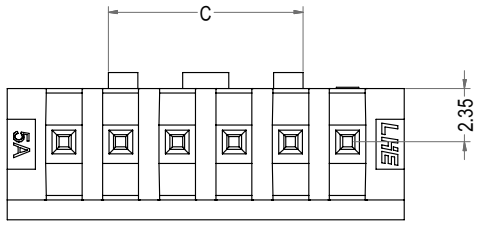
XHB型连接器承认书图面

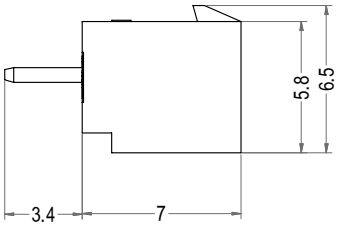
名　　称	材　　料	数量	图　　号	附　　注
基座 Housing	Nylon 66 UL94V-0	1	LHE\GC-15	White(白色)
针 Wafer	黄铜镀锡 Brass Tin	N		

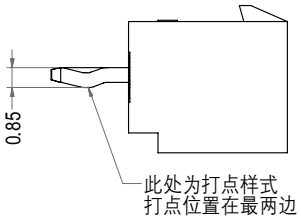
REV	修订记录	修订人	修订日期
A/1	增加四方针尺寸公差	YF	2023/4/13

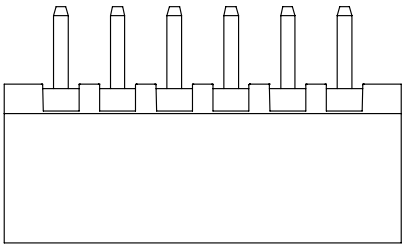


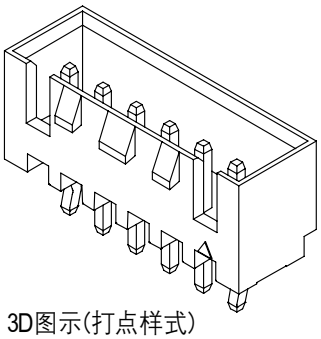












3D图示(打点样式)

注意:C2508胶壳能与A2502针座互配!

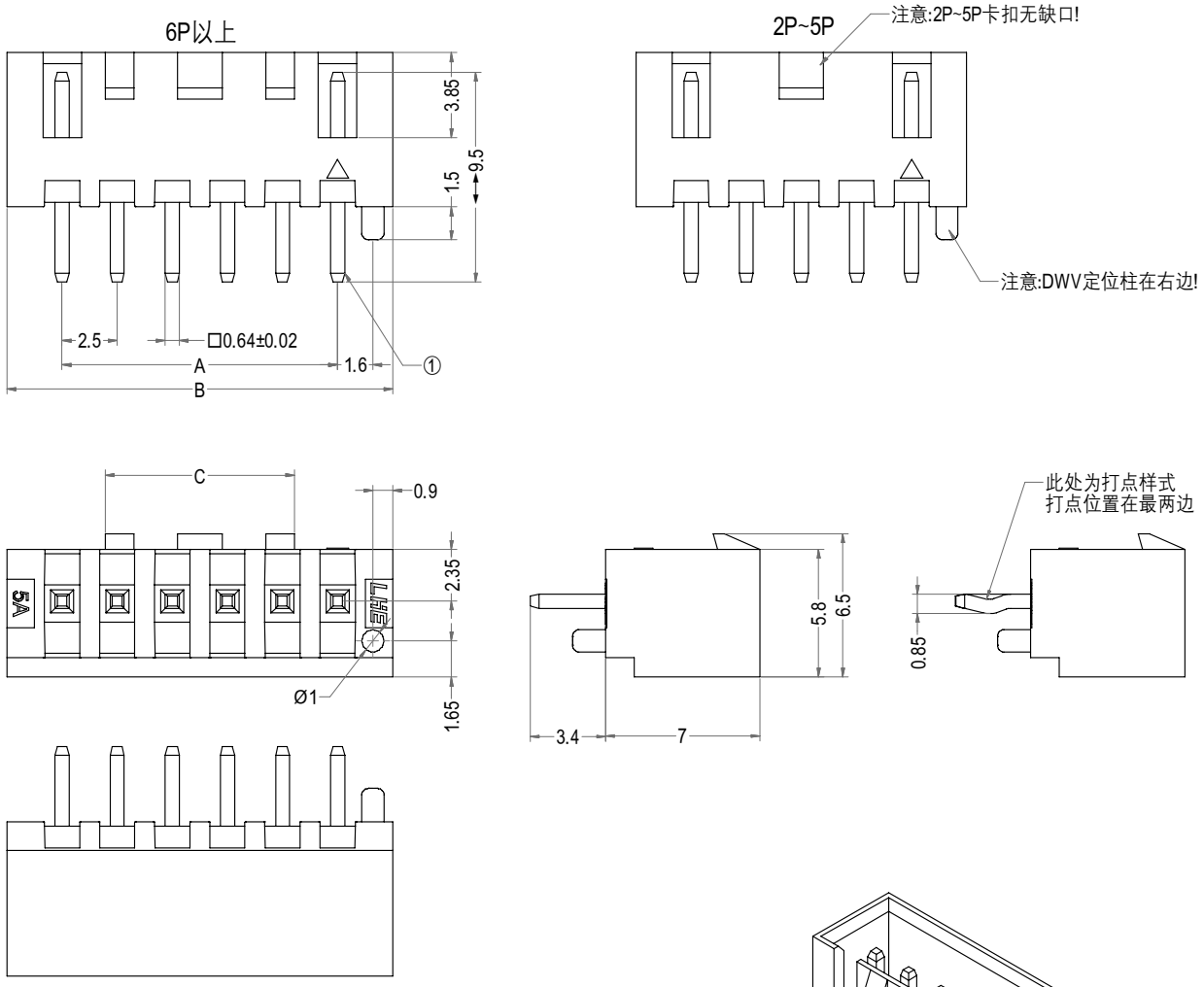
Poles	Part No.1	Description 1	Part No.2	Description 2	DIM=A	DIM=B	DIM=C
2	A2502-WV02-K	XHB-2A打点	A2502-WV02	XHB-2A	2.50	7.50	1.00
3	A2502-WV03-K	XHB-3A打点	A2502-WV03	XHB-3A	5.00	10.00	1.20
4	A2502-WV04-K	XHB-4A打点	A2502-WV04	XHB-4A	7.50	12.50	2.00
5	A2502-WV05-K	XHB-5A打点	A2502-WV05	XHB-5A	10.00	15.00	2.00
6	A2502-WV06-K	XHB-6A打点	A2502-WV06	XHB-6A	12.50	17.50	8.60
7	A2502-WV07-K	XHB-7A打点	A2502-WV07	XHB-7A	15.00	20.00	11.10
8	A2502-WV08-K	XHB-8A打点	A2502-WV08	XHB-8A	17.50	22.50	13.60
9	A2502-WV09-K	XHB-9A打点	A2502-WV09	XHB-9A	20.00	25.00	16.10
10	A2502-WV10-K	XHB-10A打点	A2502-WV10	XHB-10A	22.50	27.50	18.60
11	A2502-WV11-K	XHB-11A打点	A2502-WV11	XHB-11A	25.00	30.00	21.10
12	A2502-WV12-K	XHB-12A打点	A2502-WV12	XHB-12A	27.50	32.50	23.60
13	A2502-WV13-K	XHB-13A打点	A2502-WV13	XHB-13A	30.00	35.00	26.10
14	A2502-WV14-K	XHB-14A打点	A2502-WV14	XHB-14A	32.50	37.50	28.60
15	A2502-WV15-K	XHB-15A打点	A2502-WV15	XHB-15A	35.00	40.00	31.10
16	A2502-WV16-K	XHB-16A打点	A2502-WV16	XHB-16A	37.50	42.50	33.60
17	A2502-WV17-K	XHB-17A打点	A2502-WV17	XHB-17A	40.00	45.00	36.10
18	A2502-WV18-K	XHB-18A打点	A2502-WV18	XHB-18A	42.50	47.50	38.60
19	A2502-WV19-K	XHB-19A打点	A2502-WV19	XHB-19A	45.00	50.00	41.10
20	A2502-WV20-K	XHB-20A打点	A2502-WV20	XHB-20A	47.50	52.50	43.60

浙江联和电子有限公司			
品名	XHB-A	比例	3 : 1
料号	A2502-WV	未注公差(mm)	
图号	LHE\GC-15	>0~3	±0.12
材料	Nylon 66 UL94V-0	>3~18	±0.15
制图	王天2024-04-09	>18~50	±0.3
审核	天琴2024-04-09	>50~120	±0.5
批准	季育文2024-04-09	X°	±3°
视角		X.X°	±0.5°

XHB型连接器承认书图面

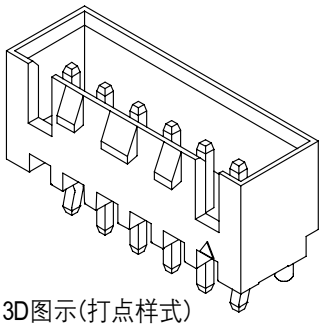
名　　称	材　　料	数量	图　　号	附　　注
基座 Housing	Nylon 66 UL94V-0	1	LHE\GC-16	White(白色)
针 Wafer	黄铜镀锡 Brass Tin	N		

REV	修订记录	修订人	修订日期
A/1	增加四方针尺寸公差	YF	2023/4/13



注意:C2508胶壳能与A2502针座互配!

Poles	Part No.1	Description 1	Part No.2	Description 2	DIM=A	DIM=B	DIM=C
2	A2502-DWV02-K	XHB-2AD打点	A2502-DWV02	XHB-2AD	2.50	7.50	1.00
3	A2502-DWV03-K	XHB-3AD打点	A2502-DWV03	XHB-3AD	5.00	10.00	1.20
4	A2502-DWV04-K	XHB-4AD打点	A2502-DWV04	XHB-4AD	7.50	12.50	2.00
5	A2502-DWV05-K	XHB-5AD打点	A2502-DWV05	XHB-5AD	10.00	15.00	2.00
6	A2502-DWV06-K	XHB-6AD打点	A2502-DWV06	XHB-6AD	12.50	17.50	8.60
7	A2502-DWV07-K	XHB-7AD打点	A2502-DWV07	XHB-7AD	15.00	20.00	11.10
8	A2502-DWV08-K	XHB-8AD打点	A2502-DWV08	XHB-8AD	17.50	22.50	13.60
9	A2502-DWV09-K	XHB-9AD打点	A2502-DWV09	XHB-9AD	20.00	25.00	16.10
10	A2502-DWV10-K	XHB-10AD打点	A2502-DWV10	XHB-10AD	22.50	27.50	18.60
11	A2502-DWV11-K	XHB-11AD打点	A2502-DWV11	XHB-11AD	25.00	30.00	21.10
12	A2502-DWV12-K	XHB-12AD打点	A2502-DWV12	XHB-12AD	27.50	32.50	23.60
13	A2502-DWV13-K	XHB-13AD打点	A2502-DWV13	XHB-13AD	30.00	35.00	26.10
14	A2502-DWV14-K	XHB-14AD打点	A2502-DWV14	XHB-14AD	32.50	37.50	28.60
15	A2502-DWV15-K	XHB-15AD打点	A2502-DWV15	XHB-15AD	35.00	40.00	31.10
16	A2502-DWV16-K	XHB-16AD打点	A2502-DWV16	XHB-16AD	37.50	42.50	33.60
17	A2502-DWV17-K	XHB-17AD打点	A2502-DWV17	XHB-17AD	40.00	45.00	36.10
18	A2502-DWV18-K	XHB-18AD打点	A2502-DWV18	XHB-18AD	42.50	47.50	38.60
19	A2502-DWV19-K	XHB-19AD打点	A2502-DWV19	XHB-19AD	45.00	50.00	41.10
20	A2502-DWV20-K	XHB-20AD打点	A2502-DWV20	XHB-20AD	47.50	52.50	43.60



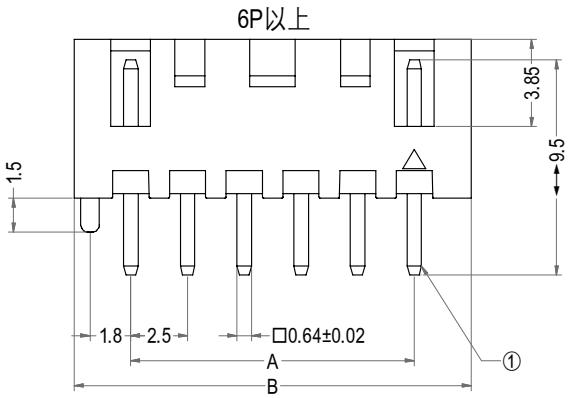
3D图示(打点样式)

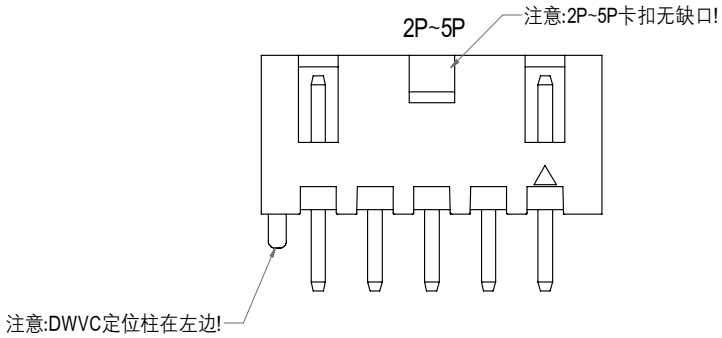
LHE® 浙江联和电子有限公司			
品名	XHB-AD	比例	3 : 1
料号	A2502-DWV	未注公差(mm)	
图号	LHE\GC-16	>0~3	±0.12
材料	Nylon 66 UL94V-0	>3~18	±0.15
制图	王天2024-04-09	>18~50	±0.3
审核	天琴2024-04-09	>50~120	±0.5
批准	季育文2024-04-09	X°	±3°
视角		X.X°	±0.5°

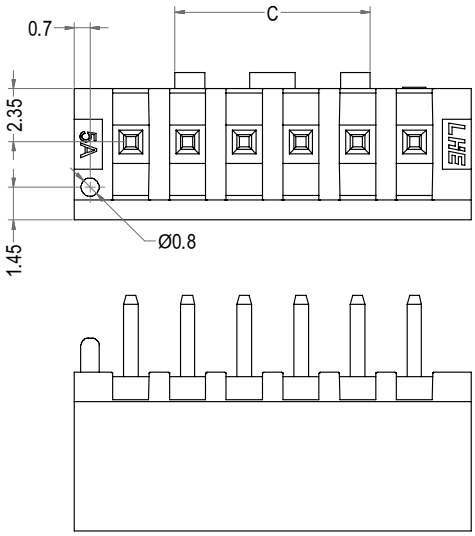
XHB型连接器承认书图面

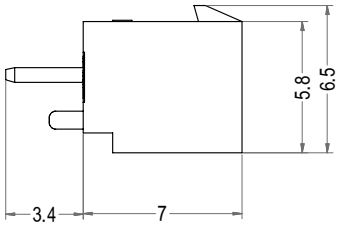
名　　称	材　　料	数量	图　　号	附　　注
基座 Housing	Nylon 66 UL94V-0	1	LHE\GC-17	White(白色)
针 Wafer	黄铜镀锡 Brass Tin	N		

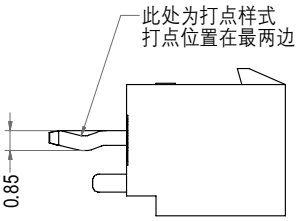
REV	修订记录	修订人	修订日期
A/1	增加四方针尺寸公差	YF	2023/4/13





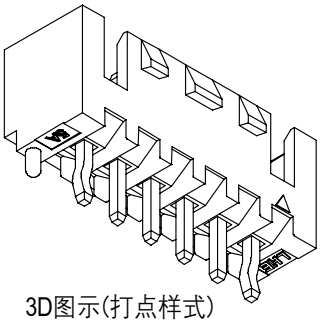






注意:C2508胶壳能与A2502针座互配!

Poles	Part No.1	Description 1	Part No.2	Description 2	DIM=A	DIM=B	DIM=C
2	A2502-DWVC02-K	XHB-2ADB打点	A2502-DWVC02	XHB-2ADB	2.50	7.50	1.00
3	A2502-DWVC03-K	XHB-3ADB打点	A2502-DWVC03	XHB-3ADB	5.00	10.00	1.20
4	A2502-DWVC04-K	XHB-4ADB打点	A2502-DWVC04	XHB-4ADB	7.50	12.50	2.00
5	A2502-DWVC05-K	XHB-5ADB打点	A2502-DWVC05	XHB-5ADB	10.00	15.00	2.00
6	A2502-DWVC06-K	XHB-6ADB打点	A2502-DWVC06	XHB-6ADB	12.50	17.50	8.60
7	A2502-DWVC07-K	XHB-7ADB打点	A2502-DWVC07	XHB-7ADB	15.00	20.00	11.10
8	A2502-DWVC08-K	XHB-8ADB打点	A2502-DWVC08	XHB-8ADB	17.50	22.50	13.60
9	A2502-DWVC09-K	XHB-9ADB打点	A2502-DWVC09	XHB-9ADB	20.00	25.00	16.10
10	A2502-DWVC10-K	XHB-10ADB打点	A2502-DWVC10	XHB-10ADB	22.50	27.50	18.60
11	A2502-DWVC11-K	XHB-11ADB打点	A2502-DWVC11	XHB-11ADB	25.00	30.00	21.10
12	A2502-DWVC12-K	XHB-12ADB打点	A2502-DWVC12	XHB-12ADB	27.50	32.50	23.60
13	A2502-DWVC13-K	XHB-13ADB打点	A2502-DWVC13	XHB-13ADB	30.00	35.00	26.10
14	A2502-DWVC14-K	XHB-14ADB打点	A2502-DWVC14	XHB-14ADB	32.50	37.50	28.60
15	A2502-DWVC15-K	XHB-15ADB打点	A2502-DWVC15	XHB-15ADB	35.00	40.00	31.10
16	A2502-DWVC16-K	XHB-16ADB打点	A2502-DWVC16	XHB-16ADB	37.50	42.50	33.60
17	A2502-DWVC17-K	XHB-17ADB打点	A2502-DWVC17	XHB-17ADB	40.00	45.00	36.10
18	A2502-DWVC18-K	XHB-18ADB打点	A2502-DWVC18	XHB-18ADB	42.50	47.50	38.60
19	A2502-DWVC19-K	XHB-19ADB打点	A2502-DWVC19	XHB-19ADB	45.00	50.00	41.10
20	A2502-DWVC20-K	XHB-20ADB打点	A2502-DWVC20	XHB-20ADB	47.50	52.50	43.60



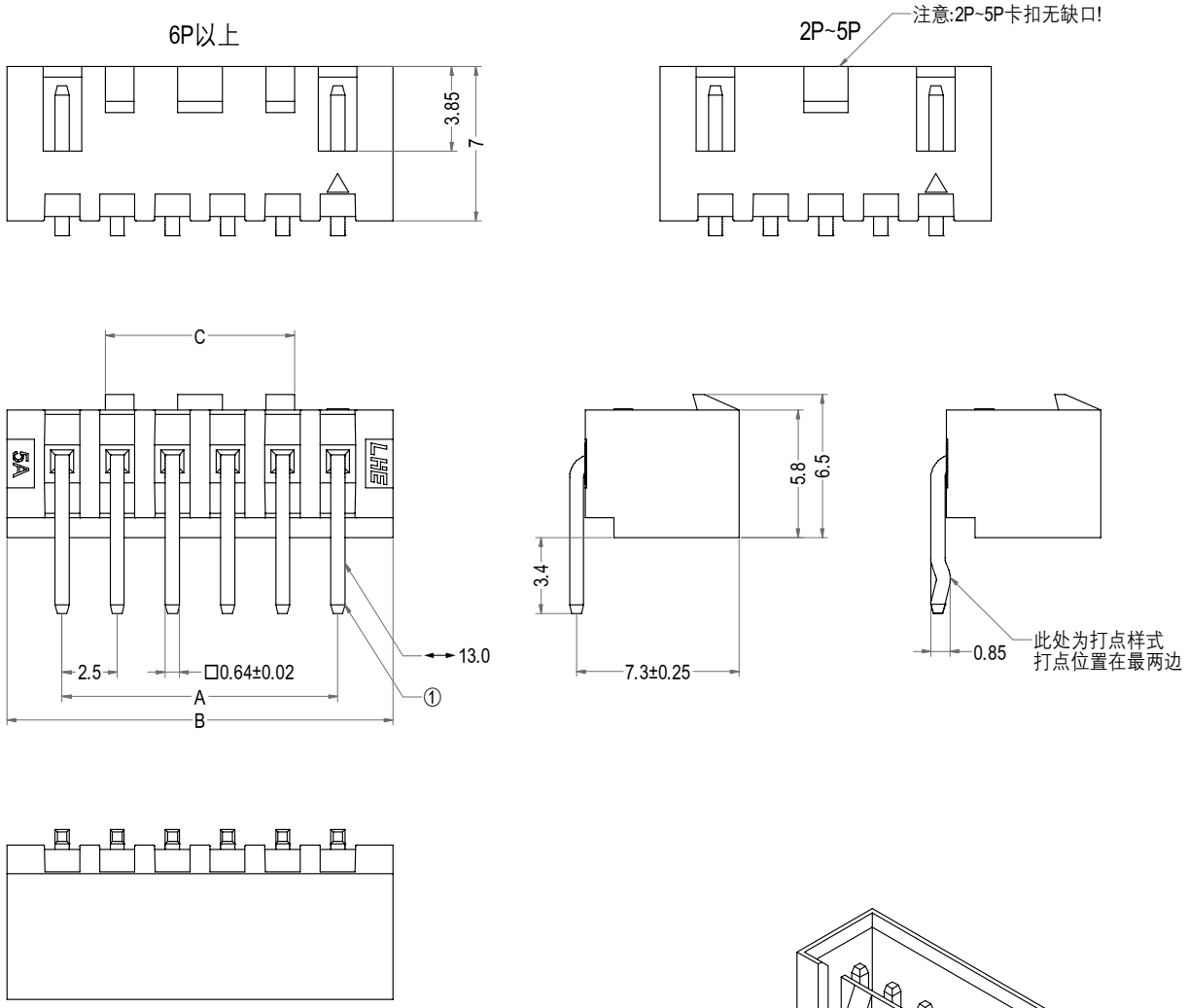
3D图示(打点样式)

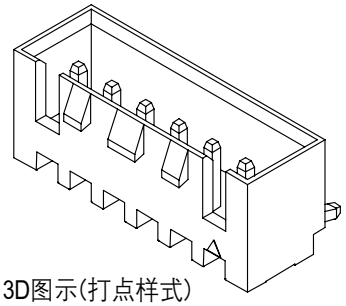
浙江联和电子有限公司			
品名	XHB-ADB	比例	3 : 1
料号	A2502-DWVC	未注公差(mm)	
图号	LHE\GC-17	>0~3	±0.12
材料	Nylon 66 UL94V-0	>3~18	±0.15
制图	王天2024-04-09	>18~50	±0.3
审核	天琴2024-04-09	>50~120	±0.5
批准	季育文2024-04-09	X°	±3°
视角		X.X°	±0.5°

XHB型连接器承认书图面

名　　称	材　　料	数量	图　　号	附　　注
基座 Housing	Nylon 66 UL94V-0	1	LHE\GC-18	White(白色)
针 Wafer	黄铜镀锡 Brass Tin	N		

REV	修订记录	修订人	修订日期
A/1	增加四方针尺寸公差	YF	2023/4/13





3D图示(打点样式)

注意:C2508胶壳能与A2502针座互配!

Poles	Part No.1	Description 1	Part No.2	Description 2	DIM=A	DIM=B	DIM=C
2	A2502-WR02-K	XHB-2AW打点	A2502-WR02	XHB-2AW	2.50	7.50	1.00
3	A2502-WR03-K	XHB-3AW打点	A2502-WR03	XHB-3AW	5.00	10.00	1.20
4	A2502-WR04-K	XHB-4AW打点	A2502-WR04	XHB-4AW	7.50	12.50	2.00
5	A2502-WR05-K	XHB-5AW打点	A2502-WR05	XHB-5AW	10.00	15.00	2.00
6	A2502-WR06-K	XHB-6AW打点	A2502-WR06	XHB-6AW	12.50	17.50	8.60
7	A2502-WR07-K	XHB-7AW打点	A2502-WR07	XHB-7AW	15.00	20.00	11.10
8	A2502-WR08-K	XHB-8AW打点	A2502-WR08	XHB-8AW	17.50	22.50	13.60
9	A2502-WR09-K	XHB-9AW打点	A2502-WR09	XHB-9AW	20.00	25.00	16.10
10	A2502-WR10-K	XHB-10AW打点	A2502-WR10	XHB-10AW	22.50	27.50	18.60
11	A2502-WR11-K	XHB-11AW打点	A2502-WR11	XHB-11AW	25.00	30.00	21.10
12	A2502-WR12-K	XHB-12AW打点	A2502-WR12	XHB-12AW	27.50	32.50	23.60
13	A2502-WR13-K	XHB-13AW打点	A2502-WR13	XHB-13AW	30.00	35.00	26.10
14	A2502-WR14-K	XHB-14AW打点	A2502-WR14	XHB-14AW	32.50	37.50	28.60
15	A2502-WR15-K	XHB-15AW打点	A2502-WR15	XHB-15AW	35.00	40.00	31.10
16	A2502-WR16-K	XHB-16AW打点	A2502-WR16	XHB-16AW	37.50	42.50	33.60
17	A2502-WR17-K	XHB-17AW打点	A2502-WR17	XHB-17AW	40.00	45.00	36.10
18	A2502-WR18-K	XHB-18AW打点	A2502-WR18	XHB-18AW	42.50	47.50	38.60
19	A2502-WR19-K	XHB-19AW打点	A2502-WR19	XHB-19AW	45.00	50.00	41.10
20	A2502-WR20-K	XHB-20AW打点	A2502-WR20	XHB-20AW	47.50	52.50	43.60

浙江联和电子有限公司

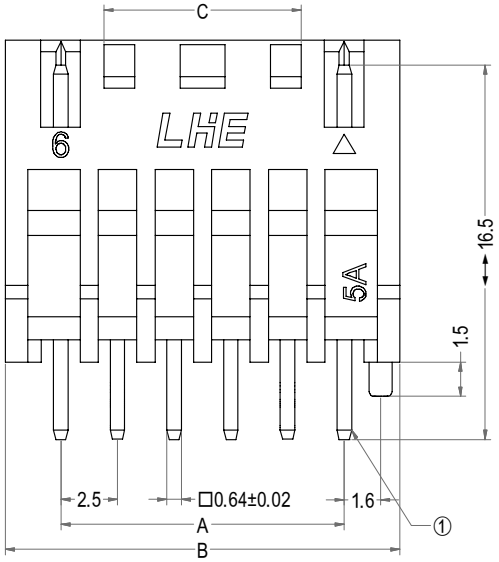
品名	XHB-AW	比例	3 : 1
料号	A2502-WR	未注公差(mm)	
图号	LHE\GC-18	>0~3	±0.12
材料	Nylon 66 UL94V-0	>3~18	±0.15
制图	王天2024-04-09	>18~50	±0.3
审核	天琴2024-04-09	>50~120	±0.5
批准	季育文2024-04-09	X°	±3°
视角		X.X°	±0.5°

XHB型连接器承认书图面

名　　称	材　　料	数量	图　　号	附　　注
基座 Housing	Nylon 66 UL94V-0	1	LHE\GC-19	White(白色)
针 Wafer	黄铜镀锡 Brass Tin	N		

REV	修订记录	修订人	修订日期
A/1	增加四方针尺寸公差	YF	2023/4/13

6P以上



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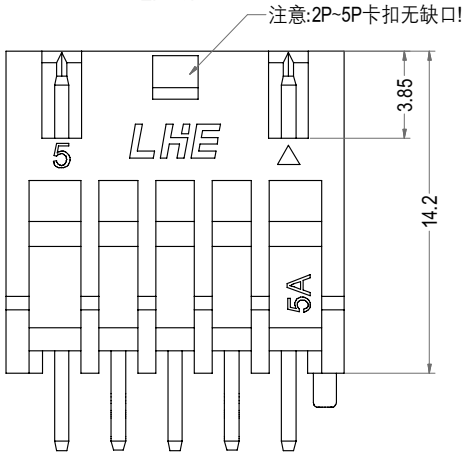
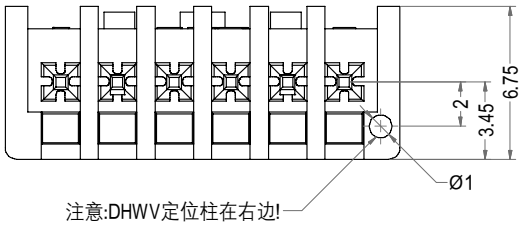
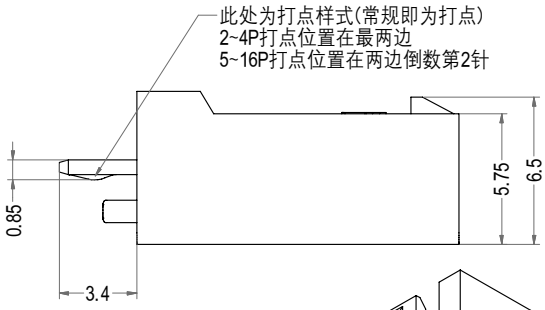
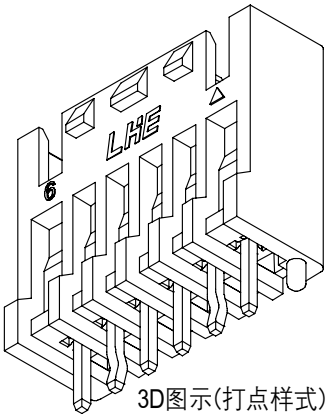








3D图示(打点样式)

注意:C2508胶壳能与A2502针座互配!

Poles	Part No.	Description	DIM=A	DIM=B	DIM=C
2	A2502-DHWV02-K	XHB-2AD(BH)打点	2.50	7.40	1.00
3	A2502-DHWV03-K	XHB-3AD(BH)打点	5.00	9.90	1.20
4	A2502-DHWV04-K	XHB-4AD(BH)打点	7.50	12.40	2.00
5	A2502-DHWV05-K	XHB-5AD(BH)打点	10.00	14.90	2.00
6	A2502-DHWV06-K	XHB-6AD(BH)打点	12.50	17.40	8.70
7	A2502-DHWV07-K	XHB-7AD(BH)打点	15.00	19.90	11.20
8	A2502-DHWV08-K	XHB-8AD(BH)打点	17.50	22.40	13.70
9	A2502-DHWV09-K	XHB-9AD(BH)打点	20.00	24.90	16.20
10	A2502-DHWV10-K	XHB-10AD(BH)打点	22.50	27.40	18.70
11	A2502-DHWV11-K	XHB-11AD(BH)打点	25.00	29.90	21.20
12	A2502-DHWV12-K	XHB-12AD(BH)打点	27.50	32.40	23.70
13	A2502-DHWV13-K	XHB-13AD(BH)打点	30.00	34.90	26.20
14	A2502-DHWV14-K	XHB-14AD(BH)打点	32.50	37.40	28.70
15	A2502-DHWV15-K	XHB-15AD(BH)打点	35.00	39.90	31.20
16	A2502-DHWV16-K	XHB-16AD(BH)打点	37.50	42.40	33.70

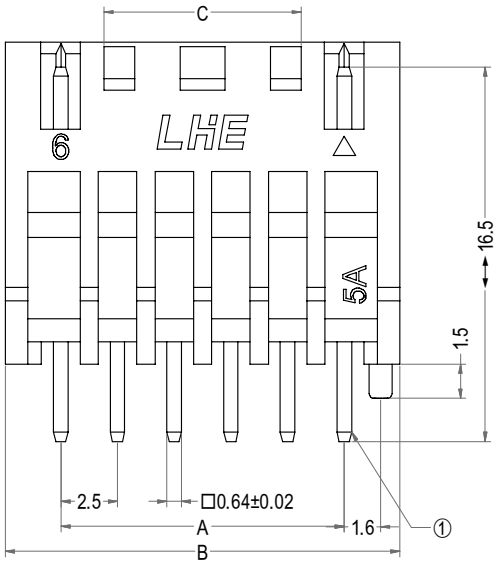
LHE® 浙江联和电子有限公司			
品名	XHB-AD(BH)打点	比例	3 : 1
料号	A2502-DHWV-K	未注公差(mm)	
图号	LHE\GC-19	>0~3	±0.12
材料	Nylon 66 UL94V-0	>3~18	±0.15
制图	王天2024-04-09	>18~50	±0.3
审核	天琴2024-04-09	>50~120	±0.5
批准	季育文2024-04-09	X°	±3°
视角		X.X°	±0.5°

XHB型连接器承认书图面

名　　称	材　　料	数量	图　　号	附　　注
基座 Housing	Nylon 66 UL94V-0	1	LHE\GC-20	White(白色)
针 Wafer	黄铜镀锡 Brass Tin	N		

REV	修订记录	修订人	修订日期
A/1	增加四方针尺寸公差	YF	2023/4/13

6P以上



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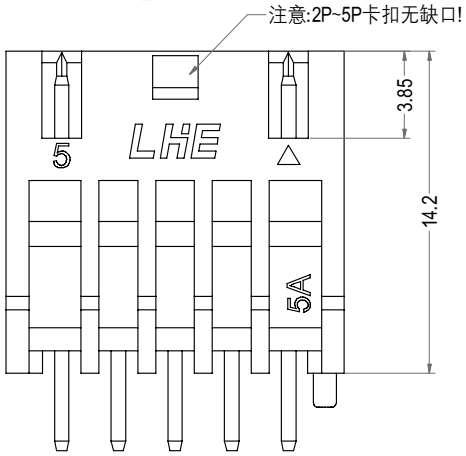
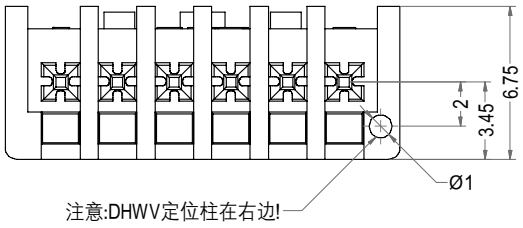
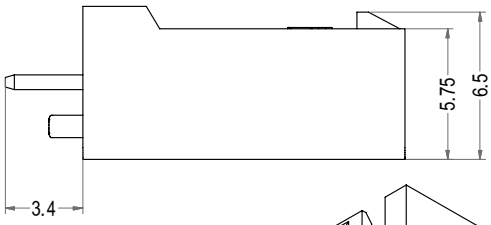
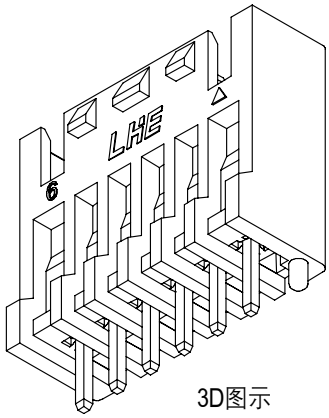








3D图示

注意:C2508胶壳能与A2502针座互配!

Poles	Part No.	Description	DIM=A	DIM=B	DIM=C
2	A2502-DHWV02	XHB-2AD(BH)	2.50	7.40	1.00
3	A2502-DHWV03	XHB-3AD(BH)	5.00	9.90	1.20
4	A2502-DHWV04	XHB-4AD(BH)	7.50	12.40	2.00
5	A2502-DHWV05	XHB-5AD(BH)	10.00	14.90	2.00
6	A2502-DHWV06	XHB-6AD(BH)	12.50	17.40	8.70
7	A2502-DHWV07	XHB-7AD(BH)	15.00	19.90	11.20
8	A2502-DHWV08	XHB-8AD(BH)	17.50	22.40	13.70
9	A2502-DHWV09	XHB-9AD(BH)	20.00	24.90	16.20
10	A2502-DHWV10	XHB-10AD(BH)	22.50	27.40	18.70
11	A2502-DHWV11	XHB-11AD(BH)	25.00	29.90	21.20
12	A2502-DHWV12	XHB-12AD(BH)	27.50	32.40	23.70
13	A2502-DHWV13	XHB-13AD(BH)	30.00	34.90	26.20
14	A2502-DHWV14	XHB-14AD(BH)	32.50	37.40	28.70
15	A2502-DHWV15	XHB-15AD(BH)	35.00	39.90	31.20
16	A2502-DHWV16	XHB-16AD(BH)	37.50	42.40	33.70

LHE® 浙江联和电子有限公司

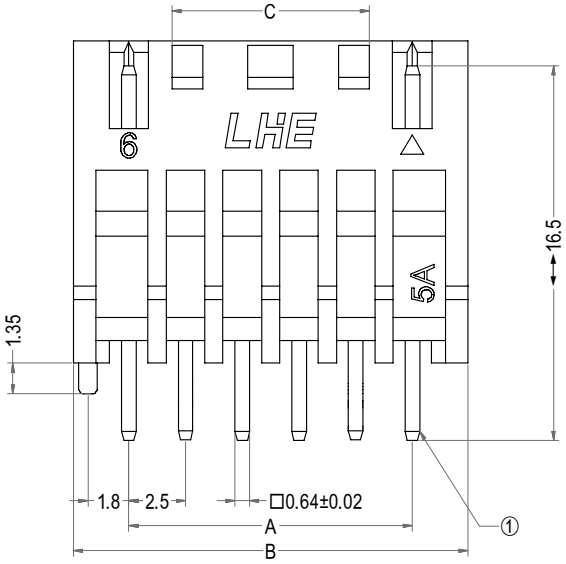
品名	XHB-AD(BH)	比例	3 : 1
料号	A2502-DHWV	未注公差(mm)	
图号	LHE\GC-20	>0~3	±0.12
材料	Nylon 66 UL94V-0	>3~18	±0.15
制图	王天2024-04-09	>18~50	±0.3
审核	天琴2024-04-09	>50~120	±0.5
批准	季育文2024-04-09	X°	±3°
视角		X.X°	±0.5°

XHB型连接器承认书图面

名　　称	材　　料	数量	图　　号	附　　注
基座 Housing	Nylon 66 UL94V-0	1	LHE\GC-21	White(白色)
针 Wafer	黄铜镀锡 Brass Tin	N		

REV	修订记录	修订人	修订日期
A/1	增加四方针尺寸公差	YF	2023/4/13

6P以上



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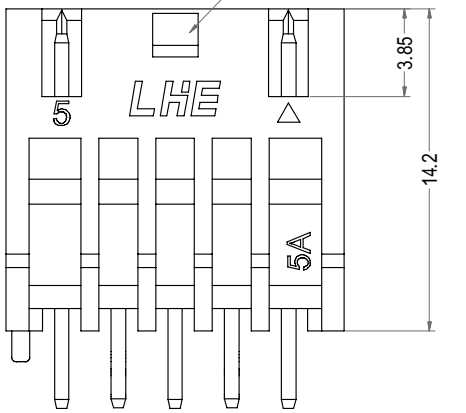
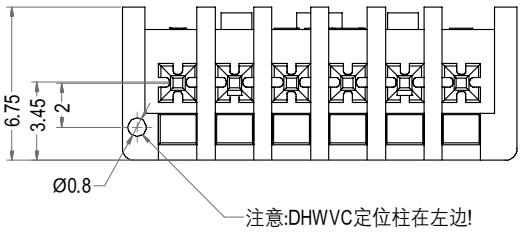
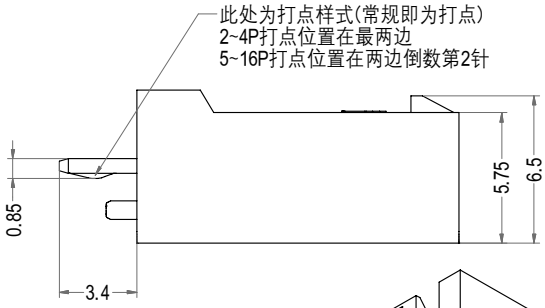
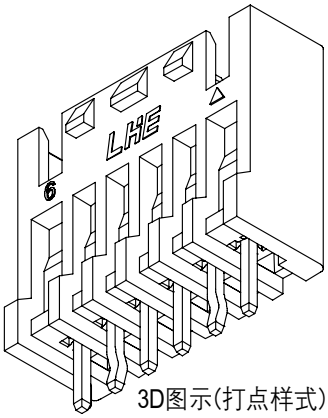








3D图示(打点样式)

注意:C2508胶壳能与A2502针座互配!

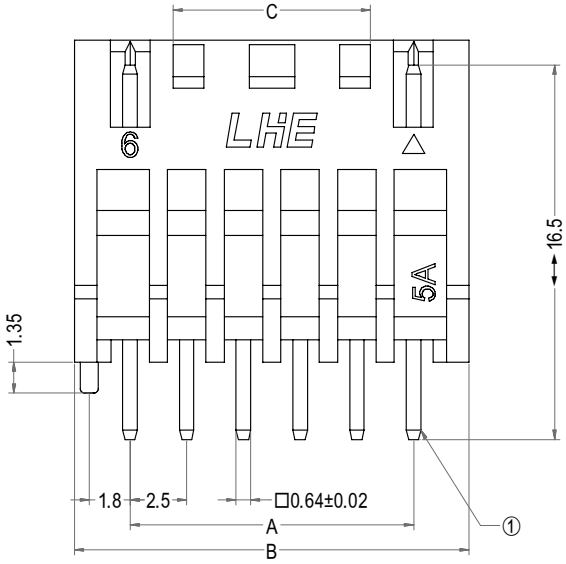
Poles	Part No.	Description	DIM=A	DIM=B	DIM=C
2	A2502-DHWVC02-K	XHB-2ADB(BH)打点	2.50	7.40	1.00
3	A2502-DHWVC03-K	XHB-3ADB(BH)打点	5.00	9.90	1.20
4	A2502-DHWVC04-K	XHB-4ADB(BH)打点	7.50	12.40	2.00
5	A2502-DHWVC05-K	XHB-5ADB(BH)打点	10.00	14.90	2.00
6	A2502-DHWVC06-K	XHB-6ADB(BH)打点	12.50	17.40	8.70
7	A2502-DHWVC07-K	XHB-7ADB(BH)打点	15.00	19.90	11.20
8	A2502-DHWVC08-K	XHB-8ADB(BH)打点	17.50	22.40	13.70
9	A2502-DHWVC09-K	XHB-9ADB(BH)打点	20.00	24.90	16.20
10	A2502-DHWVC10-K	XHB-10ADB(BH)打点	22.50	27.40	18.70
11	A2502-DHWVC11-K	XHB-11ADB(BH)打点	25.00	29.90	21.20
12	A2502-DHWVC12-K	XHB-12ADB(BH)打点	27.50	32.40	23.70
13	A2502-DHWVC13-K	XHB-13ADB(BH)打点	30.00	34.90	26.20
14	A2502-DHWVC14-K	XHB-14ADB(BH)打点	32.50	37.40	28.70
15	A2502-DHWVC15-K	XHB-15ADB(BH)打点	35.00	39.90	31.20
16	A2502-DHWVC16-K	XHB-16ADB(BH)打点	37.50	42.40	33.70

LHE® 浙江联和电子有限公司			
品名	XHB-ADB(BH)打点	比例	3 : 1
料号	A2502-DHWVC-K	未注公差(mm)	
图号	LHE\GC-21	>0~3	±0.12
材料	Nylon 66 UL94V-0	>3~18	±0.15
制图	王天2024-04-09	>18~50	±0.3
审核	天琴2024-04-09	>50~120	±0.5
批准	季育文2024-04-09	X°	±3°
视角		X.X°	±0.5°

名　　称	材　　料	数量	图　　号	附　　注
基座 Housing	Nylon 66 UL94V-0	1	LHE\GC-22	White(白色)
针 Wafer	黄铜镀锡 Brass Tin	N		

REV	修订记录	修订人	修订日期
A/1	增加四方针尺寸公差	YF	2023/4/13

6P以上



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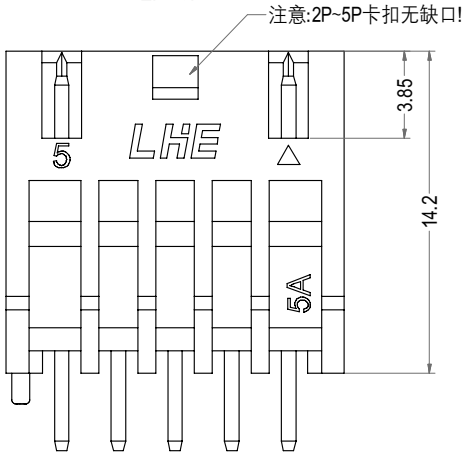

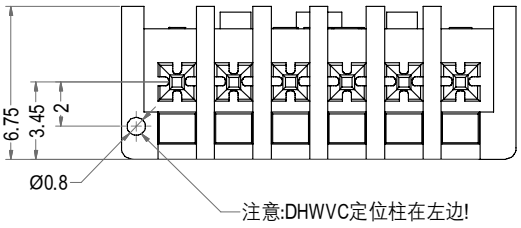

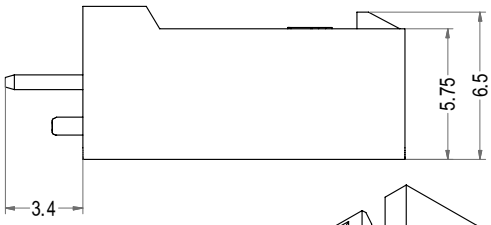

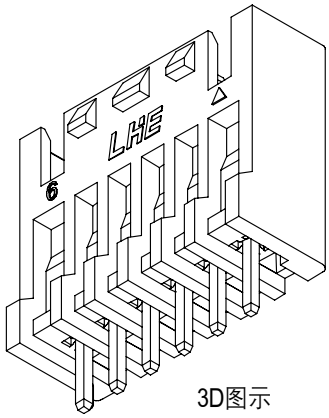

3D图示

注意:C2508胶壳能与A2502针座互配!

Poles	Part No.	Description	DIM=A	DIM=B	DIM=C
2	A2502-DHWVC02	XHB-2ADB(BH)	2.50	7.40	1.00
3	A2502-DHWVC03	XHB-3ADB(BH)	5.00	9.90	1.20
4	A2502-DHWVC04	XHB-4ADB(BH)	7.50	12.40	2.00
5	A2502-DHWVC05	XHB-5ADB(BH)	10.00	14.90	2.00
6	A2502-DHWVC06	XHB-6ADB(BH)	12.50	17.40	8.70
7	A2502-DHWVC07	XHB-7ADB(BH)	15.00	19.90	11.20
8	A2502-DHWVC08	XHB-8ADB(BH)	17.50	22.40	13.70
9	A2502-DHWVC09	XHB-9ADB(BH)	20.00	24.90	16.20
10	A2502-DHWVC10	XHB-10ADB(BH)	22.50	27.40	18.70
11	A2502-DHWVC11	XHB-11ADB(BH)	25.00	29.90	21.20
12	A2502-DHWVC12	XHB-12ADB(BH)	27.50	32.40	23.70
13	A2502-DHWVC13	XHB-13ADB(BH)	30.00	34.90	26.20
14	A2502-DHWVC14	XHB-14ADB(BH)	32.50	37.40	28.70
15	A2502-DHWVC15	XHB-15ADB(BH)	35.00	39.90	31.20
16	A2502-DHWVC16	XHB-16ADB(BH)	37.50	42.40	33.70

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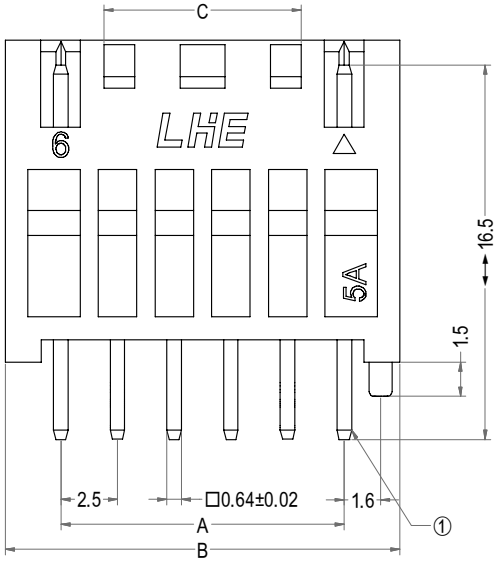
品名	XHB-ADB(BH)	比例	3 : 1
料号	A2502-DHWVC	未注公差(mm)	
图号	LHE\GC-22	>0~3	±0.12
材料	Nylon 66 UL94V-0	>3~18	±0.15
制图	王天2024-04-09	>18~50	±0.3
审核	天琴2024-04-09	>50~120	±0.5
批准	季育文2024-04-09	X°	±3°
视角		X.X°	±0.5°

XHB型连接器承认书图面

名　　称	材　　料	数量	图　　号	附　　注
基座 Housing	Nylon 66 UL94V-0	1	LHE\GC-23	White(白色)
针 Wafer	黄铜镀锡 Brass Tin	N		

REV	修订记录	修订人	修订日期
A/1	增加四方针尺寸公差	YF	2023/4/13

6P以上



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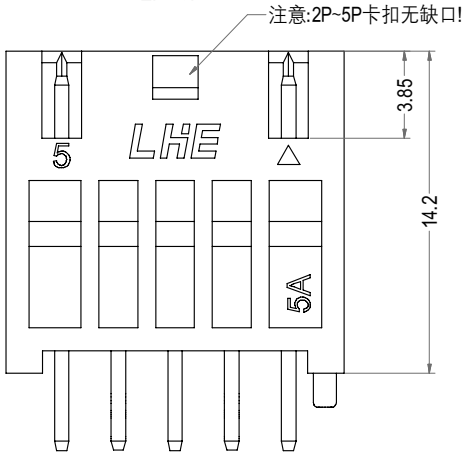
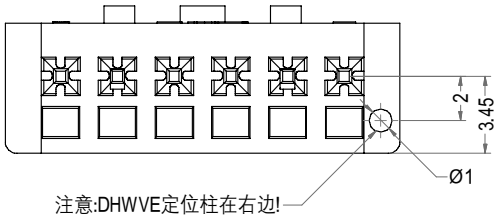
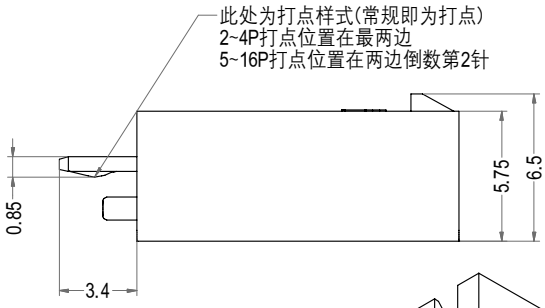
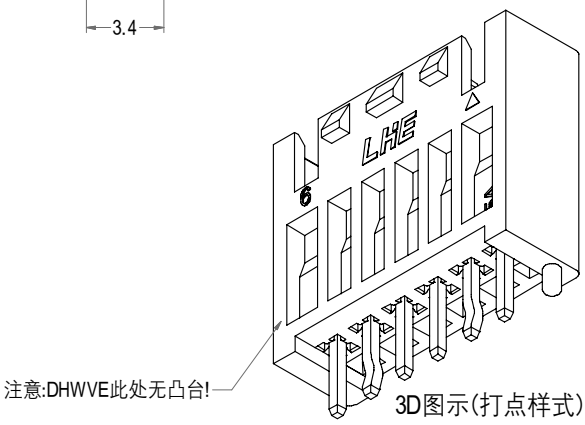








3D图示(打点样式)

注意:C2508胶壳能与A2502针座互配!

Poles	Part No.	Description	DIM=A	DIM=B	DIM=C
2	A2502-DHWVE02-K	XHB-2ADC(BH)打点	2.50	7.40	1.00
3	A2502-DHWVE03-K	XHB-3ADC(BH)打点	5.00	9.90	1.20
4	A2502-DHWVE04-K	XHB-4ADC(BH)打点	7.50	12.40	2.00
5	A2502-DHWVE05-K	XHB-5ADC(BH)打点	10.00	14.90	2.00
6	A2502-DHWVE06-K	XHB-6ADC(BH)打点	12.50	17.40	8.70
7	A2502-DHWVE07-K	XHB-7ADC(BH)打点	15.00	19.90	11.20
8	A2502-DHWVE08-K	XHB-8ADC(BH)打点	17.50	22.40	13.70
9	A2502-DHWVE09-K	XHB-9ADC(BH)打点	20.00	24.90	16.20
10	A2502-DHWVE10-K	XHB-10ADC(BH)打点	22.50	27.40	18.70
11	A2502-DHWVE11-K	XHB-11ADC(BH)打点	25.00	29.90	21.20
12	A2502-DHWVE12-K	XHB-12ADC(BH)打点	27.50	32.40	23.70
13	A2502-DHWVE13-K	XHB-13ADC(BH)打点	30.00	34.90	26.20
14	A2502-DHWVE14-K	XHB-14ADC(BH)打点	32.50	37.40	28.70
15	A2502-DHWVE15-K	XHB-15ADC(BH)打点	35.00	39.90	31.20
16	A2502-DHWVE16-K	XHB-16ADC(BH)打点	37.50	42.40	33.70

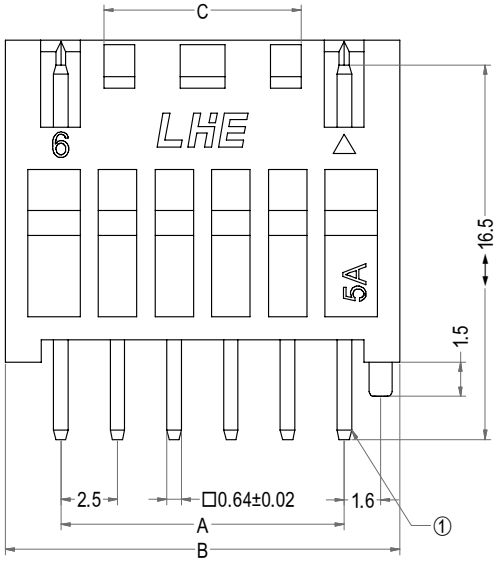
LHE® 浙江联和电子有限公司			
品名	XHB-ADC(BH)打点	比例	3 : 1
料号	A2502-DHWVE-K	未注公差(mm)	
图号	LHE\GC-23	>0~3	±0.12
材料	Nylon 66 UL94V-0	>3~18	±0.15
制图	王天2024-04-09	>18~50	±0.3
审核	天琴2024-04-09	>50~120	±0.5
批准	季育文2024-04-09	X°	±3°
视角		X.X°	±0.5°

XHB型连接器承认书图面

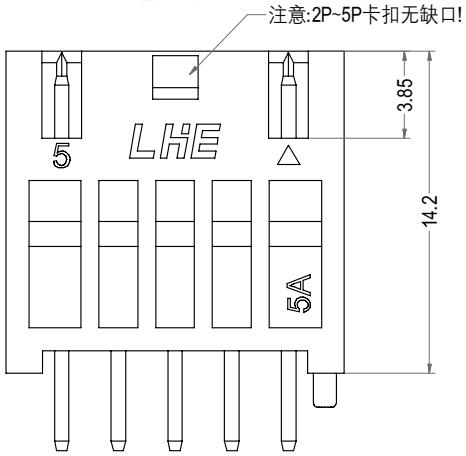
名　　称	材　　料	数量	图　　号	附　　注
基座 Housing	Nylon 66 UL94V-0	1	LHE\GC-24	White(白色)
针 Wafer	黄铜镀锡 Brass Tin	N		

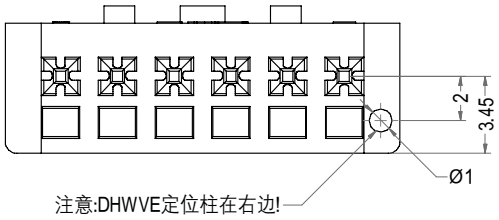
REV	修订记录	修订人	修订日期
A/1	增加四方针尺寸公差	YF	2023/4/13

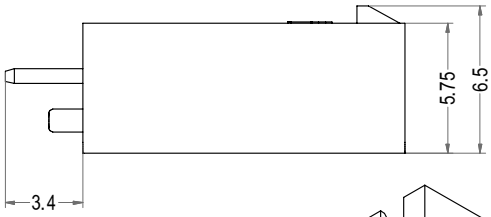
6P以上

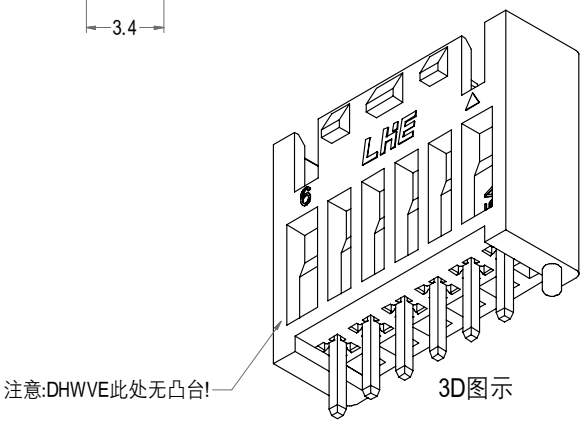


2P~5P









注意:C2508胶壳能与A2502针座互配!

Poles	Part No.	Description	DIM=A	DIM=B	DIM=C
2	A2502-DHWVE02	XHB-2ADC(BH)	2.50	7.40	1.00
3	A2502-DHWVE03	XHB-3ADC(BH)	5.00	9.90	1.20
4	A2502-DHWVE04	XHB-4ADC(BH)	7.50	12.40	2.00
5	A2502-DHWVE05	XHB-5ADC(BH)	10.00	14.90	2.00
6	A2502-DHWVE06	XHB-6ADC(BH)	12.50	17.40	8.70
7	A2502-DHWVE07	XHB-7ADC(BH)	15.00	19.90	11.20
8	A2502-DHWVE08	XHB-8ADC(BH)	17.50	22.40	13.70
9	A2502-DHWVE09	XHB-9ADC(BH)	20.00	24.90	16.20
10	A2502-DHWVE10	XHB-10ADC(BH)	22.50	27.40	18.70
11	A2502-DHWVE11	XHB-11ADC(BH)	25.00	29.90	21.20
12	A2502-DHWVE12	XHB-12ADC(BH)	27.50	32.40	23.70
13	A2502-DHWVE13	XHB-13ADC(BH)	30.00	34.90	26.20
14	A2502-DHWVE14	XHB-14ADC(BH)	32.50	37.40	28.70
15	A2502-DHWVE15	XHB-15ADC(BH)	35.00	39.90	31.20
16	A2502-DHWVE16	XHB-16ADC(BH)	37.50	42.40	33.70

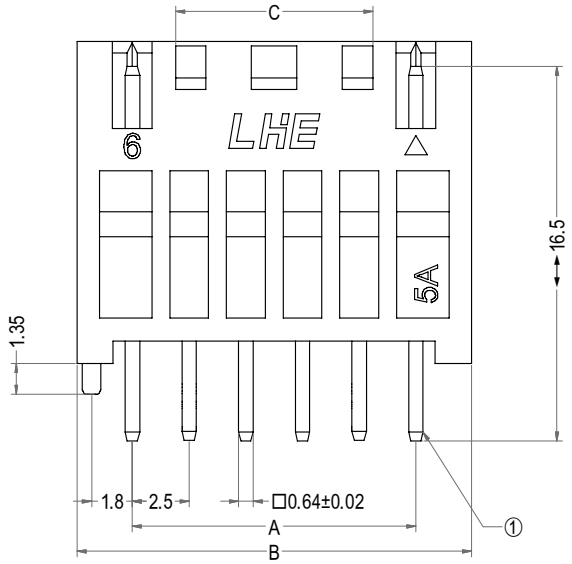
LHE® 浙江联和电子有限公司			
品名	XHB-ADC(BH)	比例	3 : 1
料号	A2502-DHWVE	未注公差(mm)	
图号	LHE\GC-24	>0~3	±0.12
材料	Nylon 66 UL94V-0	>3~18	±0.15
制图	王天2024-04-09	>18~50	±0.3
审核	天琴2024-04-09	>50~120	±0.5
批准	季育文2024-04-09	X°	±3°
视角		X.X°	±0.5°

XHB型连接器承认书图面

名　　称	材　　料	数量	图　　号	附　　注
基座 Housing	Nylon 66 UL94V-0	1	LHE\GC-25	White(白色)
针 Wafer	黄铜镀锡 Brass Tin	N		

REV	修订记录	修订人	修订日期
A/1	增加四方针尺寸公差	YF	2023/4/13

6P以上



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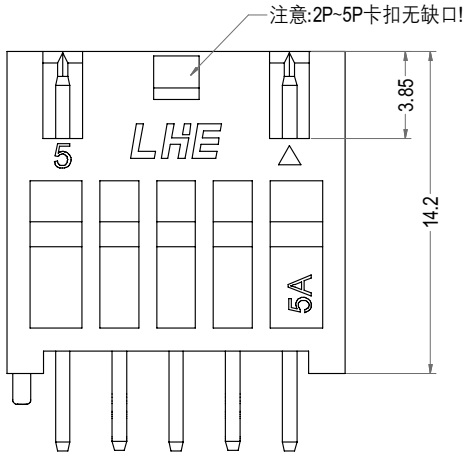
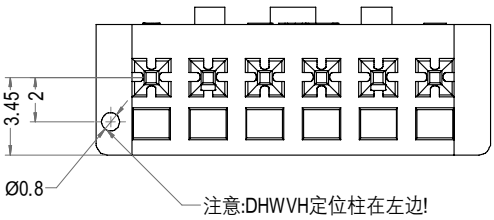
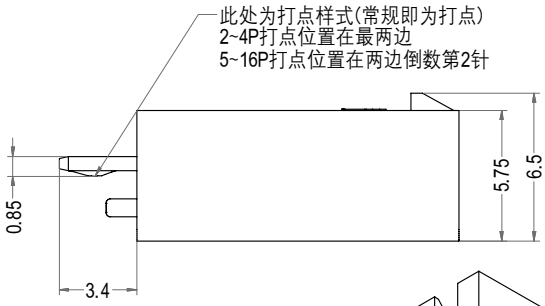
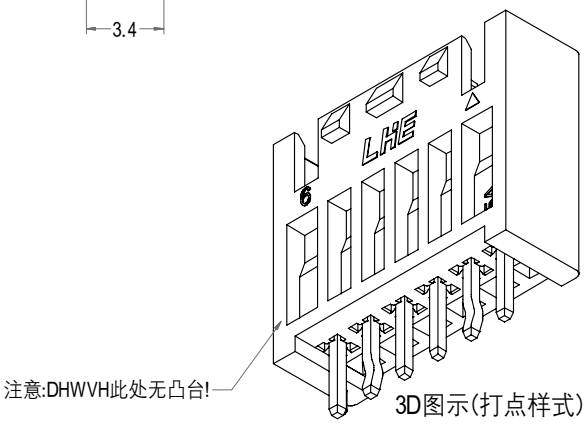








3D图示(打点样式)

注意:C2508胶壳能与A2502针座互配!

Poles	Part No.	Description	DIM=A	DIM=B	DIM=C
2	A2502-DHWVH02-K	XHB-2ADD(BH)打点	2.50	7.40	1.00
3	A2502-DHWVH03-K	XHB-3ADD(BH)打点	5.00	9.90	1.20
4	A2502-DHWVH04-K	XHB-4ADD(BH)打点	7.50	12.40	2.00
5	A2502-DHWVH05-K	XHB-5ADD(BH)打点	10.00	14.90	2.00
6	A2502-DHWVH06-K	XHB-6ADD(BH)打点	12.50	17.40	8.70
7	A2502-DHWVH07-K	XHB-7ADD(BH)打点	15.00	19.90	11.20
8	A2502-DHWVH08-K	XHB-8ADD(BH)打点	17.50	22.40	13.70
9	A2502-DHWVH09-K	XHB-9ADD(BH)打点	20.00	24.90	16.20
10	A2502-DHWVH10-K	XHB-10ADD(BH)打点	22.50	27.40	18.70
11	A2502-DHWVH11-K	XHB-11ADD(BH)打点	25.00	29.90	21.20
12	A2502-DHWVH12-K	XHB-12ADD(BH)打点	27.50	32.40	23.70
13	A2502-DHWVH13-K	XHB-13ADD(BH)打点	30.00	34.90	26.20
14	A2502-DHWVH14-K	XHB-14ADD(BH)打点	32.50	37.40	28.70
15	A2502-DHWVH15-K	XHB-15ADD(BH)打点	35.00	39.90	31.20
16	A2502-DHWVH16-K	XHB-16ADD(BH)打点	37.50	42.40	33.70

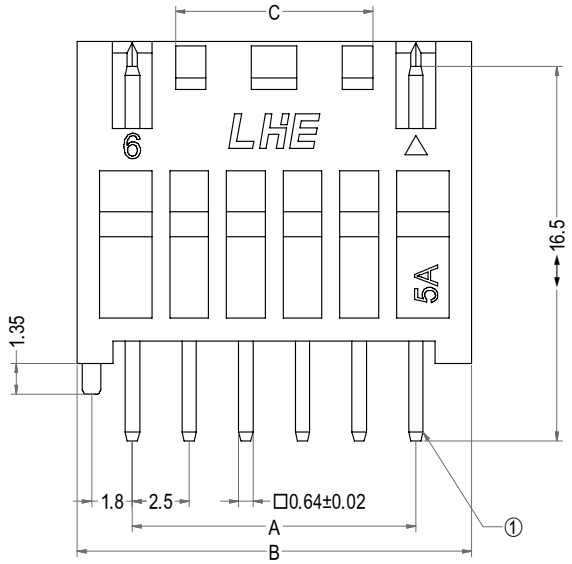
LHE® 浙江联和电子有限公司			
品名	XHB-ADD(BH)打点	比例	3 : 1
料号	A2502-DHWVH-K	未注公差(mm)	
图号	LHE\GC-25	>0~3	±0.12
材料	Nylon 66 UL94V-0	>3~18	±0.15
制图	王天2024-04-09	>18~50	±0.3
审核	天琴2024-04-09	>50~120	±0.5
批准	季育文2024-04-09	X°	±3°
视角		X.X°	±0.5°

XHB型连接器承认书图面

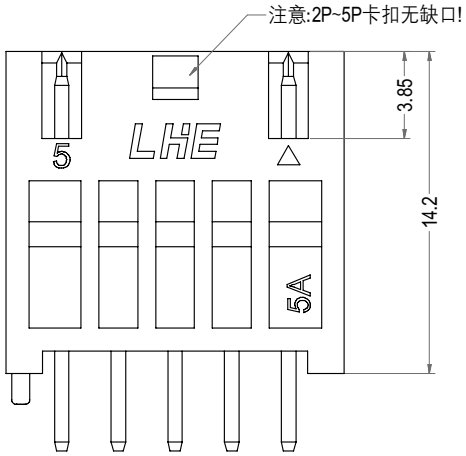
名　　称	材　　料	数量	图　　号	附　　注
基座 Housing	Nylon 66 UL94V-0	1	LHE\GC-26	White(白色)
针 Wafer	黄铜镀锡 Brass Tin	N		

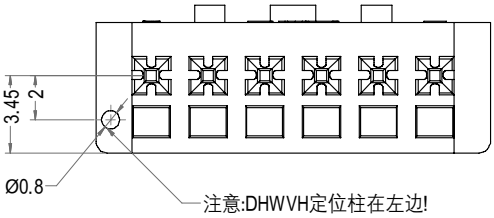
REV	修订记录	修订人	修订日期
A/1	增加四方针尺寸公差	YF	2023/4/13

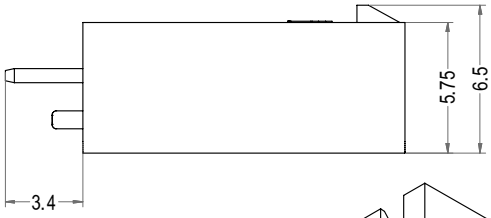
6P以上

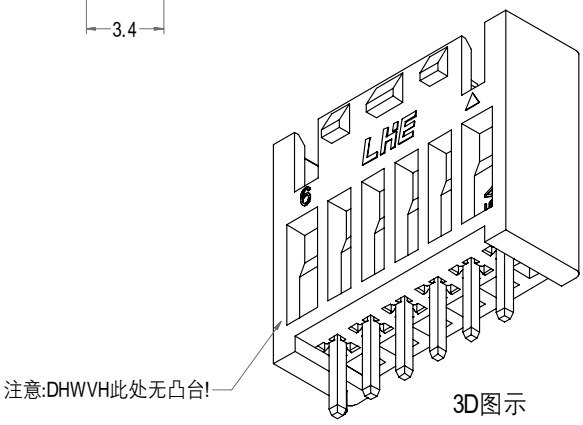


2P~5P









3D图示

注意:C2508胶壳能与A2502针座互配!

Poles	Part No.	Description	DIM=A	DIM=B	DIM=C
2	A2502-DHWVH02	XHB-2ADD(BH)	2.50	7.40	1.00
3	A2502-DHWVH03	XHB-3ADD(BH)	5.00	9.90	1.20
4	A2502-DHWVH04	XHB-4ADD(BH)	7.50	12.40	2.00
5	A2502-DHWVH05	XHB-5ADD(BH)	10.00	14.90	2.00
6	A2502-DHWVH06	XHB-6ADD(BH)	12.50	17.40	8.70
7	A2502-DHWVH07	XHB-7ADD(BH)	15.00	19.90	11.20
8	A2502-DHWVH08	XHB-8ADD(BH)	17.50	22.40	13.70
9	A2502-DHWVH09	XHB-9ADD(BH)	20.00	24.90	16.20
10	A2502-DHWVH10	XHB-10ADD(BH)	22.50	27.40	18.70
11	A2502-DHWVH11	XHB-11ADD(BH)	25.00	29.90	21.20
12	A2502-DHWVH12	XHB-12ADD(BH)	27.50	32.40	23.70
13	A2502-DHWVH13	XHB-13ADD(BH)	30.00	34.90	26.20
14	A2502-DHWVH14	XHB-14ADD(BH)	32.50	37.40	28.70
15	A2502-DHWVH15	XHB-15ADD(BH)	35.00	39.90	31.20
16	A2502-DHWVH16	XHB-16ADD(BH)	37.50	42.40	33.70

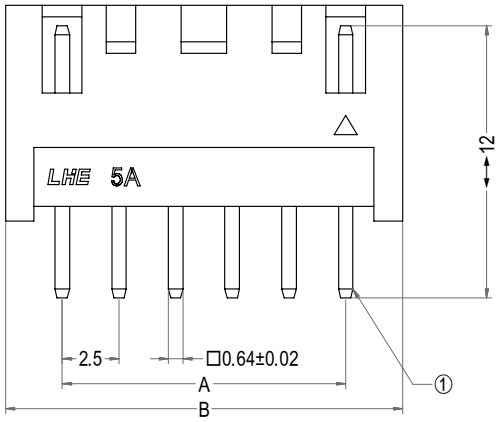
LHE® 浙江联和电子有限公司			
品名	XHB-ADD(BH)	比例	3 : 1
料号	A2502-DHWVH	未注公差(mm)	
图号	LHE\GC-26	>0~3	±0.12
材料	Nylon 66 UL94V-0	>3~18	±0.15
制图	王天2024-04-09	>18~50	±0.3
审核	天琴2024-04-09	>50~120	±0.5
批准	季育文2024-04-09	X°	±3°
视角		X.X°	±0.5°

XHB型连接器承认书图面

名　　称	材　　料	数量	图　　号	附　　注
基座 Housing	Nylon 66 UL94V-0	1	LHE\GC-27	White(白色)
针 Wafer	黄铜镀锡 Brass Tin	N		

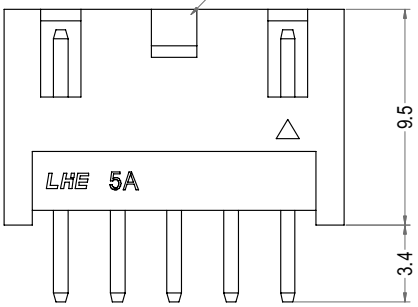
REV	修订记录	修订人	修订日期
A/1	增加四方针尺寸公差	YF	2023/4/13

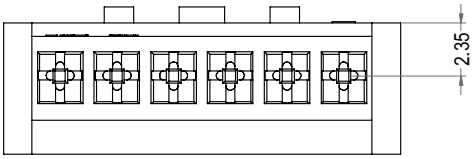
6P以上

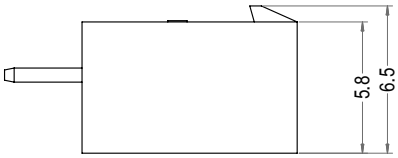


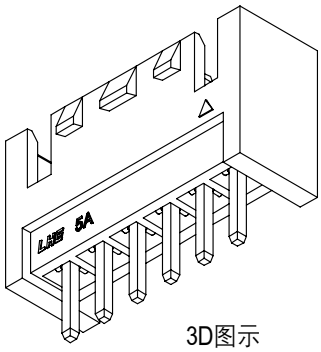
2P~5P

注意:2P~5P卡扣无缺口!









3D图示

注意:C2508胶壳能与A2502针座互配!

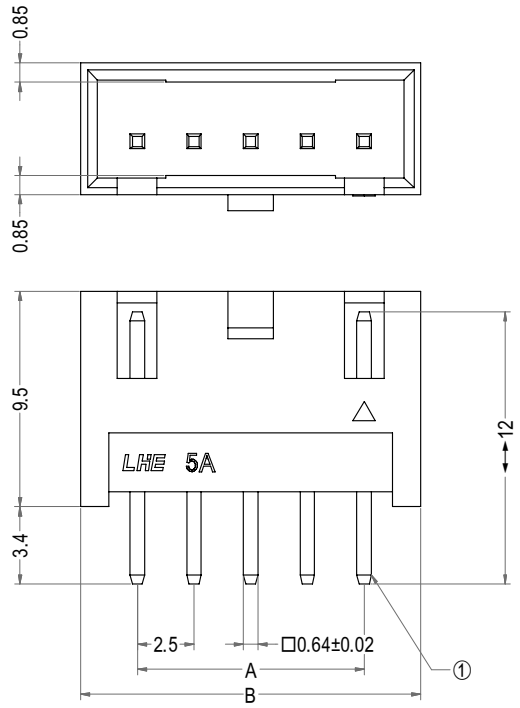
Poles	Part No.	Description	DIM=A	DIM=B
2	A2502-EWV02	XHB-2A(CH)	2.50	7.50
3	A2502-EWV03	XHB-3A(CH)	5.00	10.00
4	A2502-EWV04	XHB-4A(CH)	7.50	12.50
5	A2502-EWV05	XHB-5A(CH)	10.00	15.00
6	A2502-EWV06	XHB-6A(CH)	12.50	17.50
7	A2502-EWV07	XHB-7A(CH)	15.00	20.00
8	A2502-EWV08	XHB-8A(CH)	17.50	22.50
9	A2502-EWV09	XHB-9A(CH)	20.00	25.00
10	A2502-EWV10	XHB-10A(CH)	22.50	27.50
11	A2502-EWV11	XHB-11A(CH)	25.00	30.00
12	A2502-EWV12	XHB-12A(CH)	27.50	32.50
13	A2502-EWV13	XHB-13A(CH)	30.00	35.00
14	A2502-EWV14	XHB-14A(CH)	32.50	37.50
15	A2502-EWV15	XHB-15A(CH)	35.00	40.00
16	A2502-EWV16	XHB-16A(CH)	37.50	42.50
17	A2502-EWV17	XHB-17A(CH)	40.00	45.00
18	A2502-EWV18	XHB-18A(CH)	42.50	47.50
19	A2502-EWV19	XHB-19A(CH)	45.00	50.00
20	A2502-EWV20	XHB-20A(CH)	47.50	52.50

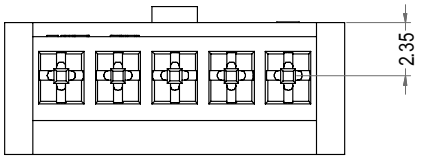
LHE® 浙江联和电子有限公司			
品名	XHB-A(CH)	比例	3 : 1
料号	A2502-EWV	未注公差(mm)	
图号	LHE\GC-27	>0~3	±0.12
材料	Nylon 66 UL94V-0	>3~18	±0.15
制图	王天2024-04-09	>18~50	±0.3
审核	天琴2024-04-09	>50~120	±0.5
批准	季育文2024-04-09	X°	±3°
视角		X.X°	±0.5°

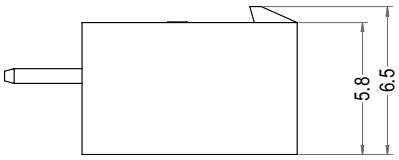
XHB型连接器承认书图面

名　　称	材　　料	数量	图　　号	附　　注
基座 Housing	Nylon 66 UL94V-0	1	LHE\GC-28	White(白色)
针 Wafer	黄铜镀锡 Brass Tin	N		

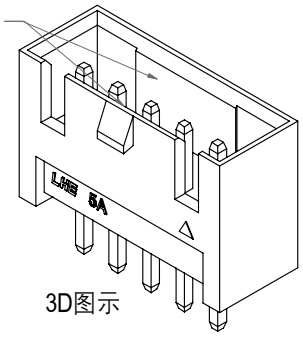
REV	修订记录	修订人	修订日期
A/1	增加四方针尺寸公差	YF	2023/4/13







注意: 仅LWV05中间凸面面壁厚+0.1!



3D图示

LHE® 浙江联和电子有限公司			
品名	XHB-A(CH)加厚	比例	3 : 1
料号	A2502-LWV	未注公差(mm)	
图号	LHE\GC-28	>0~3	±0.12
材料	Nylon 66 UL94V-0	>3~18	±0.15
制图	王天2024-04-09	>18~50	±0.3
审核	天琴2024-04-09	>50~120	±0.5
批准	季育文2024-04-09	X°	±3°
视角		X.X°	±0.5°

注意:C2508胶壳能与A2502针座互配!

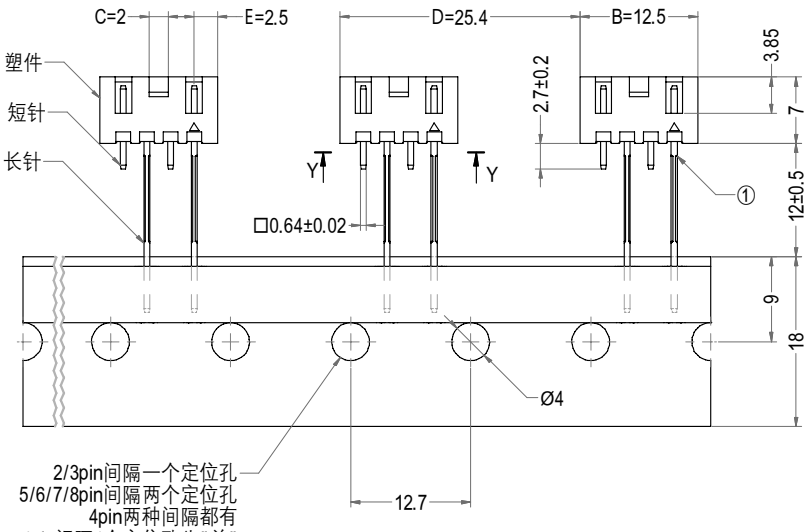
Poles	Part No.	Description	DIM=A	DIM=B
5	A2502-LWV05	XHB-5A(CH)加厚	10.00	15.00

XHB型连接器承认书图面

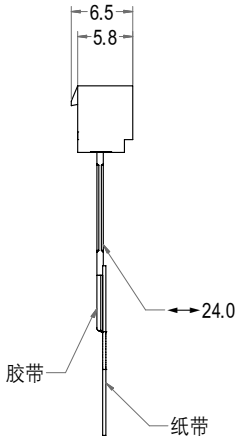
名　　称	材　　料	数量	图　　号	附　　注
基座 Housing	Nylon 66 UL94V-0	1	LHE\GC-29	White(白色)
长针 Long needle	黄铜镀锡 Brass Tin	2		
短针 Short needle	黄铜镀锡 Brass Tin	N-2		
纸带 Paper tape				
胶带 Adhesive tape				

REV	修订记录	修订人	修订日期
A/1	增加四方针尺寸公差	YF	2023/4/13

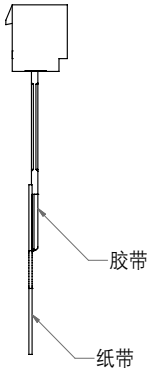
XHB-4A(1.3长针)编带装(空)

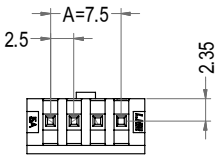


常规编带

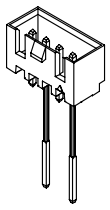


编带反





Y-Y



针座3D图示

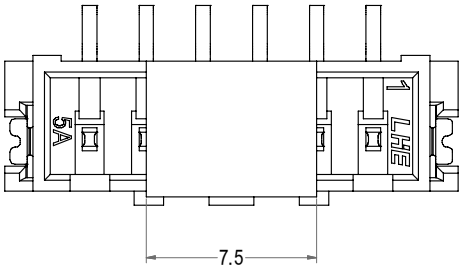
Poles	Part No.	Description	DIM=A	DIM=B	DIM=C	DIM=D	DIM=E
2	A2502-BWVG02	XHB-2A全包编带装	2.50	7.50	2.50	12.70	2.50
2	A2502-WVG02	XHB-2A编带装	2.50	7.50	1.00	12.70	2.50
3	A2502-WVG03	XHB-3A编带装	5.00	10.00	1.20	12.70	2.50
4	A2502-WVG04	XHB-4A(1.3长针)编带装	7.50	12.50	2.00	25.40	2.50
5	A2502-WVG05	XHB-5A(2.4长针)编带装	10.00	15.00	2.00	25.40	5.00
6	A2502-WVG06	XHB-6A(2.4长针)编带装	12.50	17.50	8.60	25.40	5.00
7	A2502-WVG07	XHB-7A(3.5长针)编带装	15.00	20.00	11.10	25.40	7.50
8	A2502-WVG08	XHB-8A(3.5长针)编带装	17.50	22.50	13.60	25.40	7.50
2	A2502-BWVG02-F	XHB-2A全包编带装(反)	2.50	7.50	2.50	12.70	2.50
2	A2502-WVG02-F	XHB-2A编带装(反)	2.50	7.50	1.00	12.70	2.50
3	A2502-WVG03-F	XHB-3A编带装(反)	5.00	10.00	1.20	12.70	2.50
4	A2502-WVG04-F	XHB-4A(1.3长针)编带装(反)	7.50	12.50	2.00	25.40	2.50
5	A2502-WVG05-F	XHB-5A(2.4长针)编带装(反)	10.00	15.00	2.00	25.40	5.00
6	A2502-WVG06-F	XHB-6A(2.4长针)编带装(反)	12.50	17.50	8.60	25.40	5.00
7	A2502-WVG07-F	XHB-7A(3.5长针)编带装(反)	15.00	20.00	11.10	25.40	7.50
8	A2502-WVG08-F	XHB-8A(3.5长针)编带装(反)	17.50	22.50	13.60	25.40	7.50

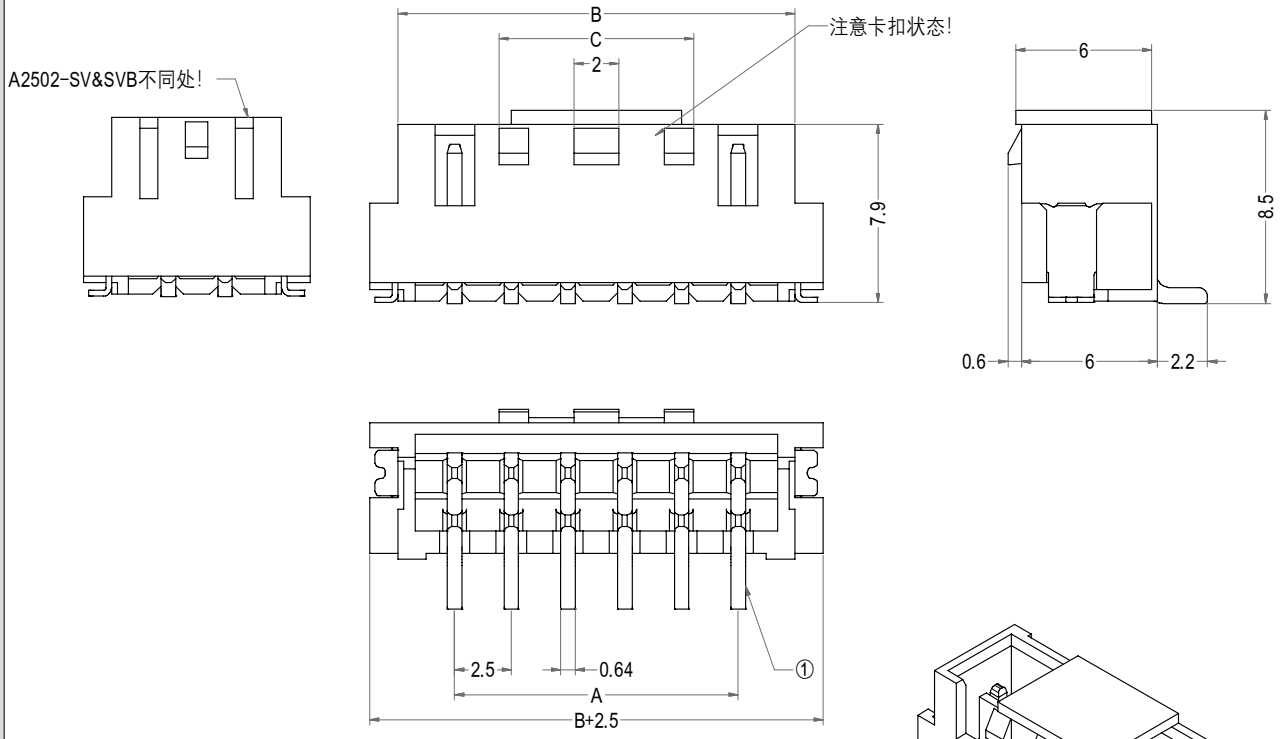
浙江联和电子有限公司

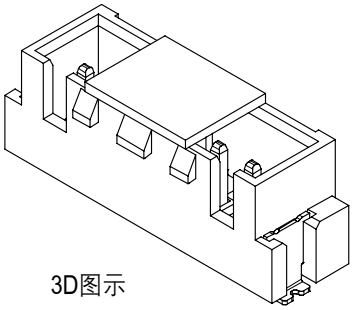
品名	XHB-WVG	比例	5 : 4
料号	A2502-A编带装	未注公差(mm)	
图号	LHE\GC-29	>0~3	±0.12
材料	Nylon 66 UL94V-0	>3~18	±0.15
制图	王天2024-04-09	>18~50	±0.3
审核	天琴2024-04-09	>50~120	±0.5
批准	季育文2024-04-09	X°	±3°
视角		X.X°	±0.5°

XHB型连接器承认书图面

名　　称	材　　料	数量	图　　号	附　　注
基座 Housing	LCP	1	LHE\GC-30	Beige(米黄色)
针 Wafer	黄铜镀锡 Brass Tn	N		
焊片 Solder pad	黄铜镀锡 Brass Tn	2		
CAP	LCP	1		Beige(米黄色)







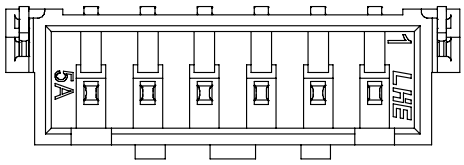
3D图示

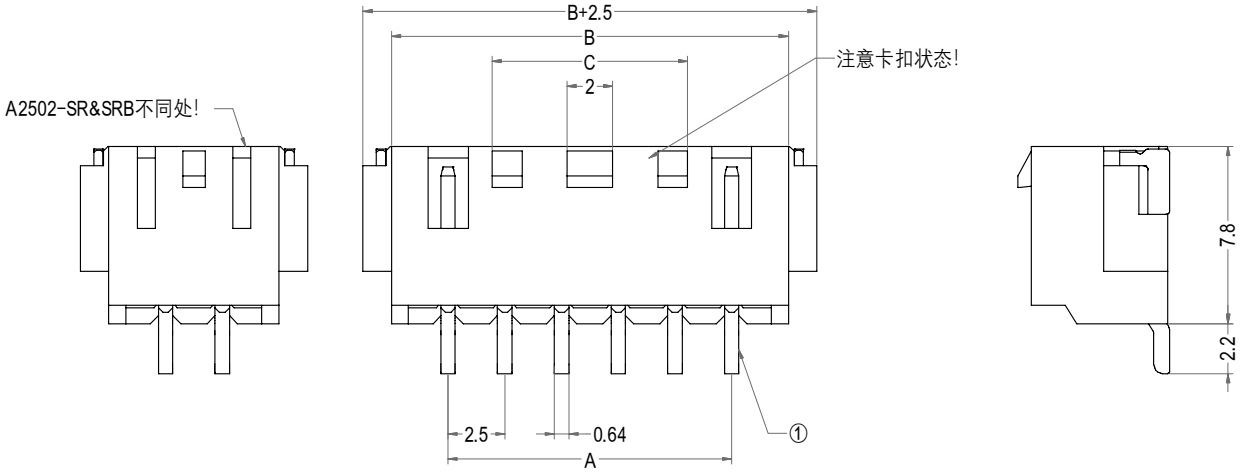
Poles	Part No.	Description	DIM=A	DIM=B	DIM=C
2	A2502-SV02	XHB-2AB	2.50	7.50	1.00
3	A2502-SV03	XHB-3AB	5.00	10.00	1.20
4	A2502-SV04	XHB-4AB	7.50	12.50	2.00
5	A2502-SV05	XHB-5AB	10.00	15.00	2.00
6	A2502-SV06	XHB-6AB	12.50	17.50	8.60
7	A2502-SV07	XHB-7AB	15.00	20.00	11.10
8	A2502-SV08	XHB-8AB	17.50	22.50	13.60
9	A2502-SV09	XHB-9AB	20.00	25.00	16.10
10	A2502-SV10	XHB-10AB	22.50	27.50	18.60
11	A2502-SV11	XHB-11AB	25.00	30.00	21.10
12	A2502-SV12	XHB-12AB	27.50	32.50	23.60
13	A2502-SV13	XHB-13AB	30.00	35.00	26.10
14	A2502-SV14	XHB-14AB	32.50	37.50	28.60
15	A2502-SV15	XHB-15AB	35.00	40.00	31.10
16	A2502-SV16	XHB-16AB	37.50	42.50	33.60
17	A2502-SV17	XHB-17AB	40.00	45.00	36.10
18	A2502-SV18	XHB-18AB	42.50	47.50	38.60
19	A2502-SV19	XHB-19AB	45.00	50.00	41.10
20	A2502-SV20	XHB-20AB	47.50	52.50	43.60

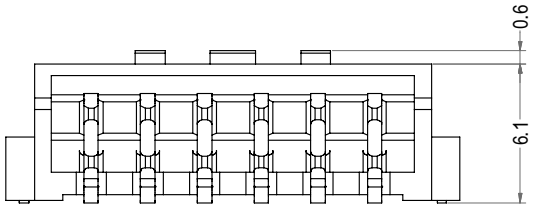
浙江联和电子有限公司			
品名	XHB-AB	比例	3 : 1
料号	A2502-SV	未注公差(mm)	
图号	LHE\GC-30	>0~3	±0.12
材料	LCP	>3~18	±0.15
制图	王天 2024-04-09	>18~50	±0.3
审核	天琴 2024-04-09	>50~120	±0.5
批准	季育文 2024-04-09	X°	±3°
视角		X.X°	±0.5°

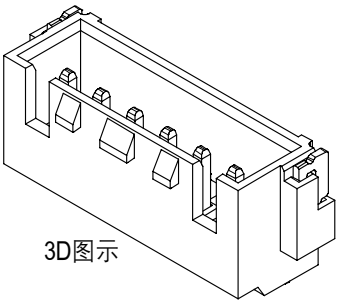
XHB型连接器承认书图面

名　　称	材　　料	数量	图　　号	附　　注
基座 Housing	LCP	1	LHE\GC-31	Beige(米黄色)
针 Wafer	黄铜镀锡 Brass Tn	N		
焊片 Solder pad	黄铜镀锡 Brass Tn	2		









3D图示

Poles	Part No.	Description	DIM=A	DIM=B	DIM=C
2	A2502-SR02	XHB-2AWB	2.50	7.50	1.00
3	A2502-SR03	XHB-3AWB	5.00	10.00	1.20
4	A2502-SR04	XHB-4AWB	7.50	12.50	2.00
5	A2502-SR05	XHB-5AWB	10.00	15.00	2.00
6	A2502-SR06	XHB-6AWB	12.50	17.50	8.60
7	A2502-SR07	XHB-7AWB	15.00	20.00	11.10
8	A2502-SR08	XHB-8AWB	17.50	22.50	13.60
9	A2502-SR09	XHB-9AWB	20.00	25.00	16.10
10	A2502-SR10	XHB-10AWB	22.50	27.50	18.60
11	A2502-SR11	XHB-11AWB	25.00	30.00	21.10
12	A2502-SR12	XHB-12AWB	27.50	32.50	23.60
13	A2502-SR13	XHB-13AWB	30.00	35.00	26.10
14	A2502-SR14	XHB-14AWB	32.50	37.50	28.60
15	A2502-SR15	XHB-15AWB	35.00	40.00	31.10
16	A2502-SR16	XHB-16AWB	37.50	42.50	33.60
17	A2502-SR17	XHB-17AWB	40.00	45.00	36.10
18	A2502-SR18	XHB-18AWB	42.50	47.50	38.60
19	A2502-SR19	XHB-19AWB	45.00	50.00	41.10
20	A2502-SR20	XHB-20AWB	47.50	52.50	43.60

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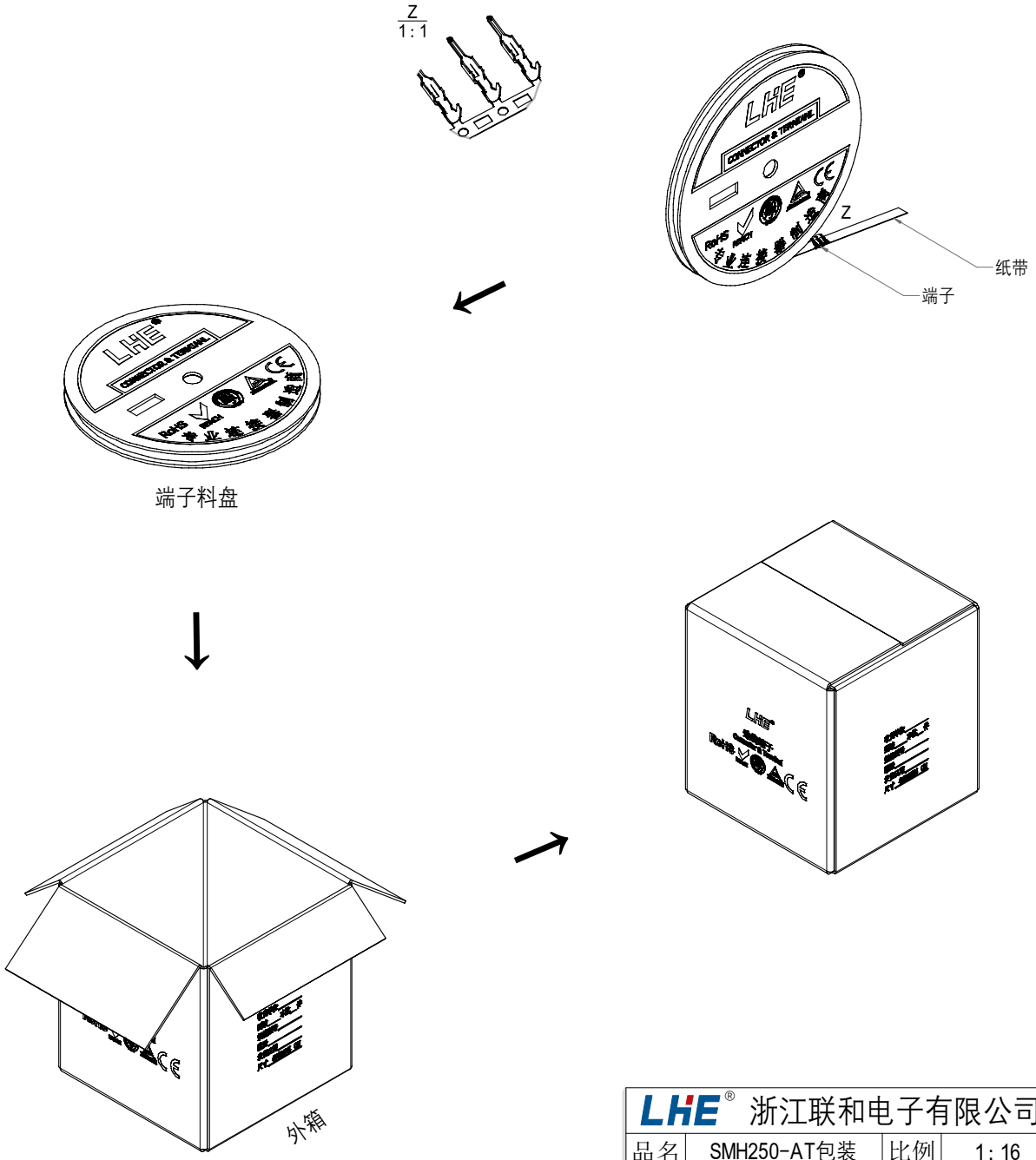
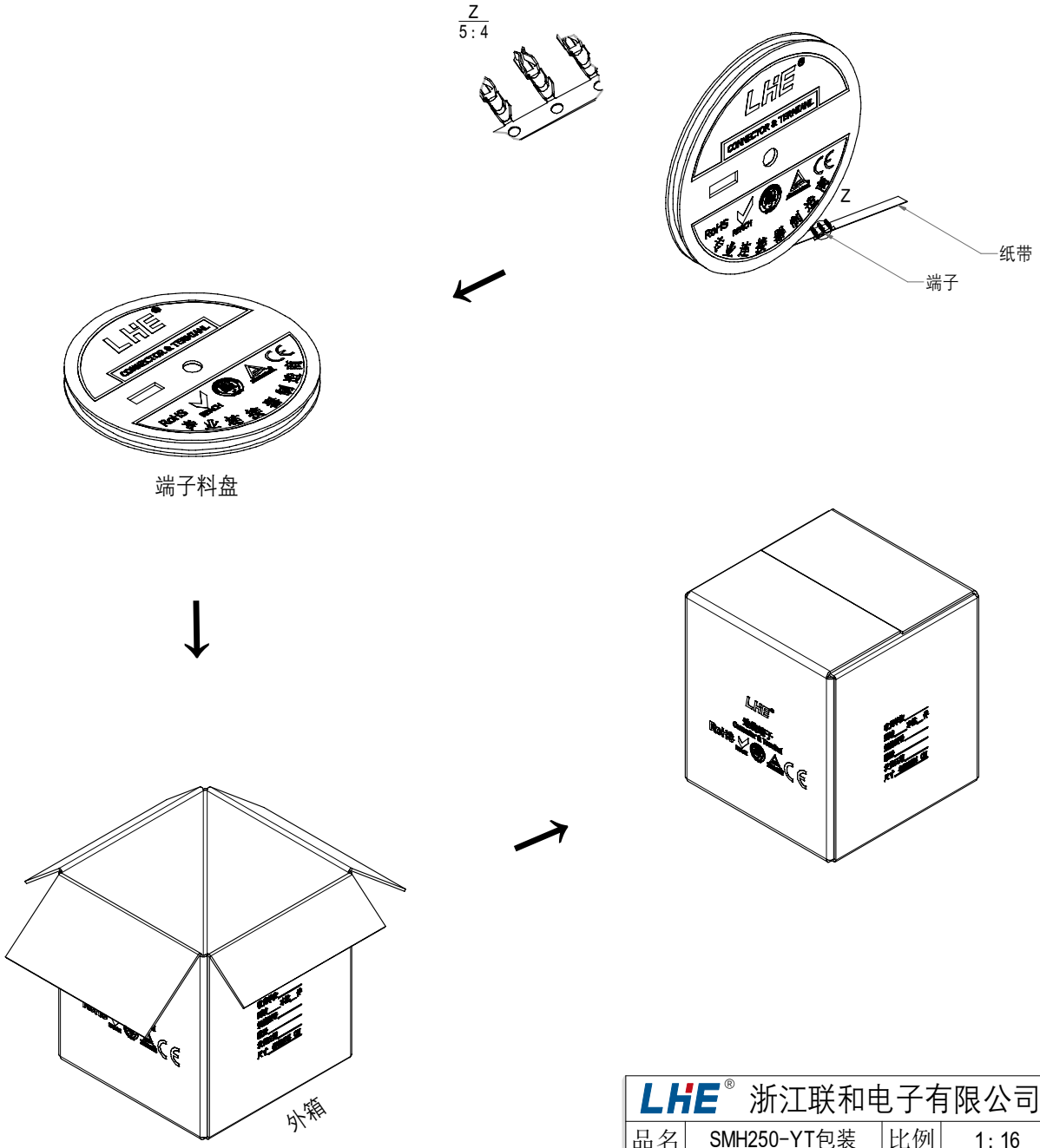
品名	XHB-AWB	比例	3 : 1
料号	A2502-SR	未注公差(mm)	
图号	LHE\GC-31	>0~3	±0.12
材料	LCP	>3~18	±0.15
制图	王天 2024-04-09	>18~50	±0.3
审核	天琴 2024-04-09	>50~120	±0.5
批准	季育文 2024-04-09	X°	±3°
视角		X.X°	±0.5°



注释:
1. 产品尺寸请参照SMH250-AT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.

Part No.	Description	Qty/reel	Reel/caton
C2507-T	SMH250-AT	8000pcs	18/Reel

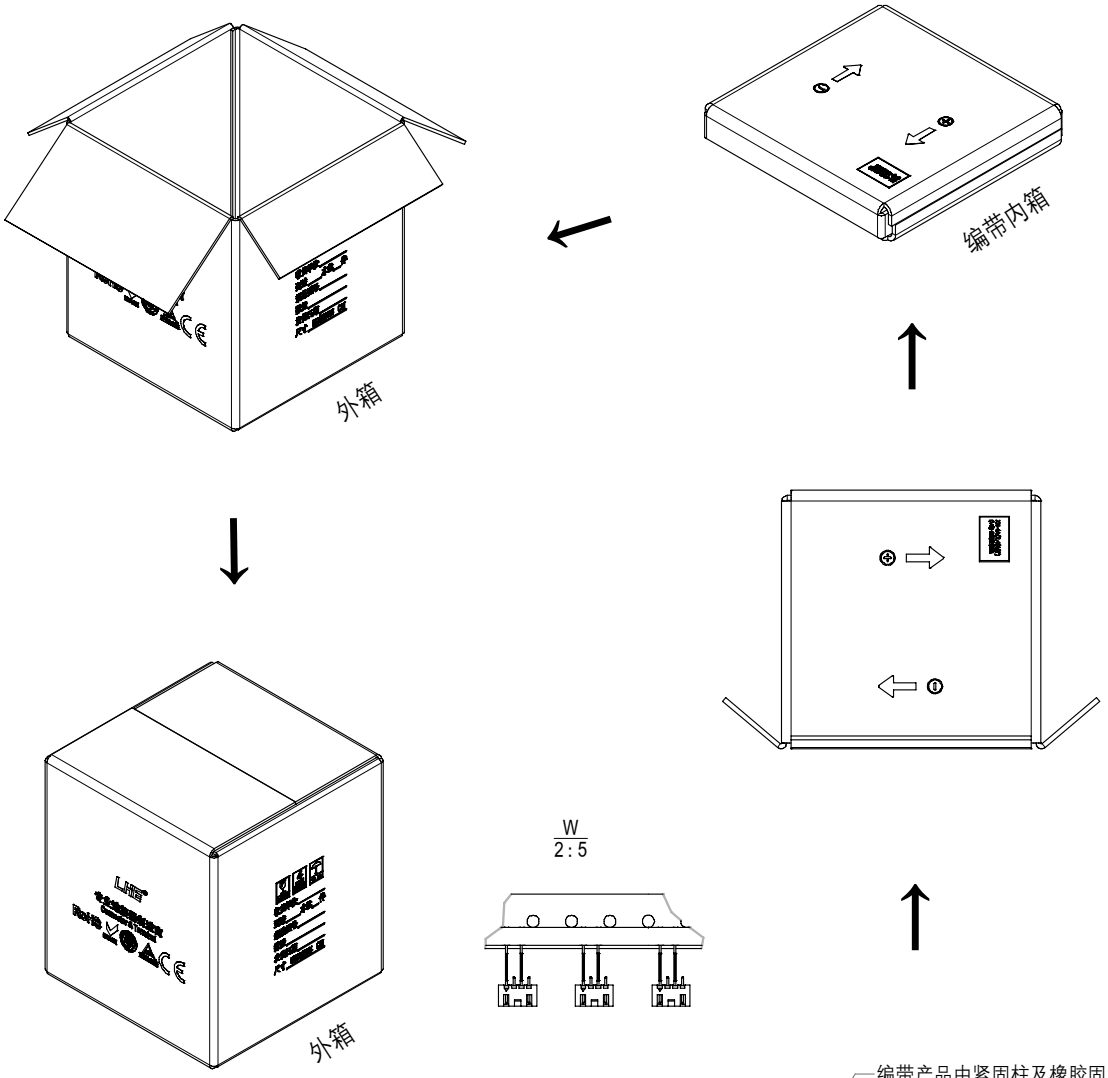
LHE® 浙江联和电子有限公司			
品名	SMH250-AT包装	比例	1:16
料号	C2507-TP包装	未注公差(mm)	
图号	LHE\GC-32	>0~3	±0.12
材料	/	>3~18	±0.15
制图	王天2024-04-09	>18~50	±0.3
审核	天琴2024-04-09	>50~120	±0.5
批准	季育文2024-04-09	X°	±3°
视角		X.X°	±0.5°

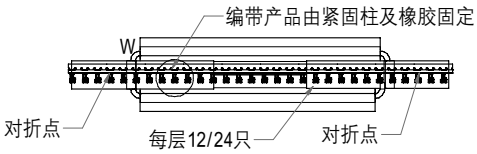


注释:
1. 产品尺寸请参照SMH250-YT图纸.
2. 此示意图为产品出料方式进行说明.
3. 胶带、PE袋未在图纸中体现,请以实物为准.

Part No.	Description	Qty/reel	Reel/caton
C2508-T	SMH250-YT	11000pcs	24/Reel

LHE® 浙江联和电子有限公司			
品名	SMH250-YT包装	比例	1 : 16
料号	C2508-TP包装	未注公差(mm)	
图号	LHE\GC-33	>0~3	±0.12
材料	/	>3~18	±0.15
制图	王天2024-04-09	>18~50	±0.3
审核	天琴2024-04-09	>50~120	±0.5
批准	季育文2024-04-09	X°	±3°
视角		X.X°	±0.5°

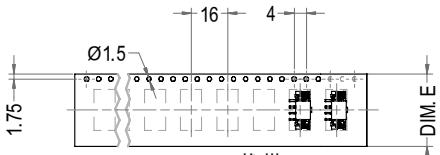




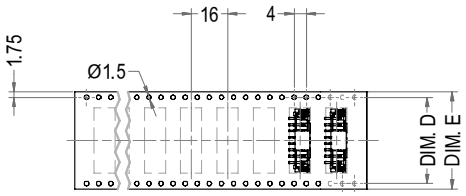
注释:
1. 产品尺寸请参照XHB-NA编带图纸.
2. 此示意图为取出产品后,以一层为例进行说明.
3. 2~3孔/4孔(并)每层固定数量24PCS,一盒标准数量1000PCS,
   4孔(空)/5~8孔每层固定12PCS,一盒标准数量500PCS.
4. 胶带未在图纸中体现,请以实物为准.
5. 此包装规范同样适用于编带装(反)及宽扣的产品.

Part No.	Description	Qty/reel	Reel/caton
A2502-WVG02	XHB-2A编带装	1000pcs	10/Reel
A250-WVG03	XHB-3A编带装	1000pcs	10/Reel
A2502-WVG04-B	XHB-4A(1.3长针)编带装(并)	1000pcs	10/Reel
A2502-WVG04	XHB-4A(1.3长针)编带装(空)	500pcs	10/Reel
A2502-WVG05	XHB-5A(2.4长针)编带装	500pcs	10/Reel
A2502-WVG06	XHB-6A(2.4长针)编带装	500pcs	10/Reel
A2502-WVG07	XHB-7A(2.4长针)编带装	500pcs	10/Reel
A2502-WVG08	XHB-8A(2.4长针)编带装	500pcs	10/Reel

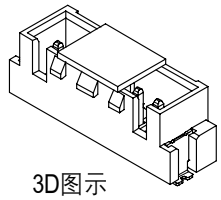
LHE® 浙江联和电子有限公司			
品名	XHB-A编带装包装	比例	1:10
料号	A2502-WVG包装	未注公差(mm)	
图号	LHE\GC-34	>0~3	±0.12
材料	/	>3~18	±0.15
制图	王天2024-04-09	>18~50	±0.3
审核	天琴2024-04-09	>50~120	±0.5
批准	季育文2024-04-09	X°	±3°
视角		X.X°	±0.5°



02~04P载带

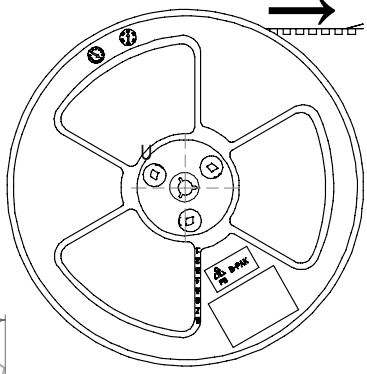


05~14P载带

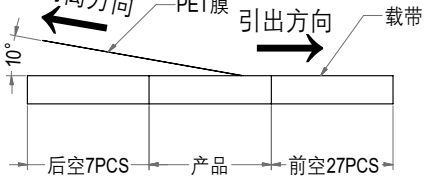


3D图示

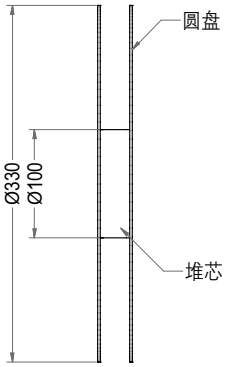
注释:

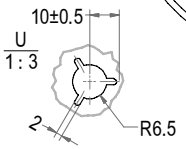


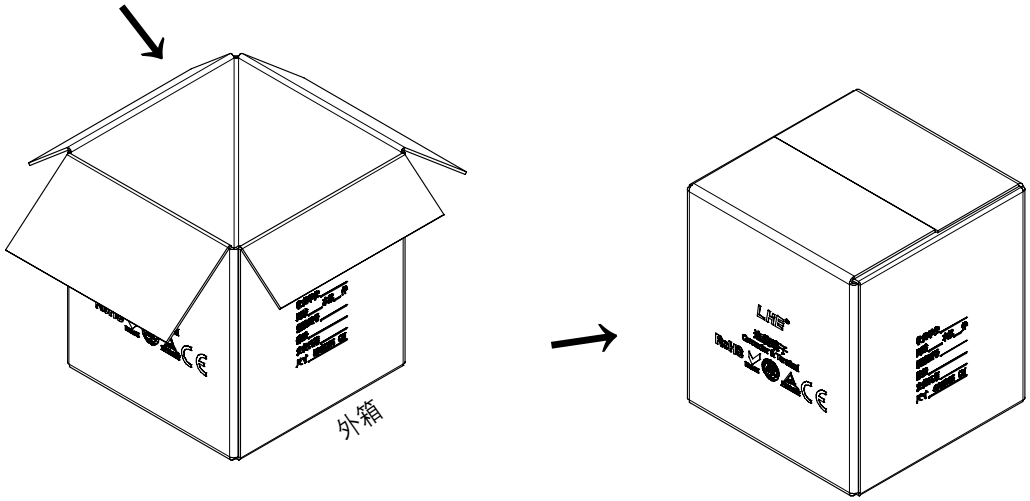
塑料胶盘



(PET膜剥离示意图)



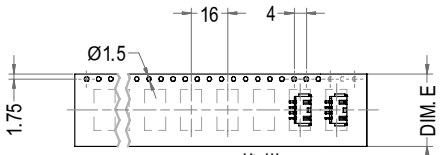




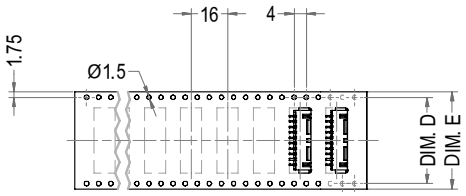
注释:
1.把成品包入卷盘中,每盘装501PCS,
卷盘上贴上合格证,将装好产品的卷盘放进外箱中,
外箱内先套一个大PE袋,外箱上贴上合格证。
2.此示意图为产品出料方式进行说明。
3.胶带、PE袋未在图纸中体现,请以实物为准。
4.包装方式同样适用于ABB。

Poles	DIM. D	DIM.E	Q'ty/Reel	Packing(Reel/Caton)
02-04P	-	24	700PCS	15/Reel
05-06P	28.4	32	700PCS	11/Reel
07-10P	40.4	44	700PCS	8/Reel
11-14P	52.4	56	700PCS	7/Reel

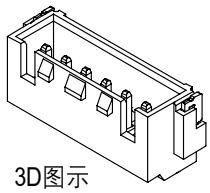
LHE® 浙江联和电子有限公司			
品名	XHB-AB包装	比例	1:16
料号	A2502-SV包装	未注公差(mm)	
图号	LHE\GC-35	>0~3	±0.12
材料	/	>3~18	±0.15
制图	王天2024-04-09	>18~50	±0.3
审核	天琴2024-04-09	>50~120	±0.5
批准	季育文2024-04-09	X°	±3°
视角		X.X°	±0.5°



02~04P载带

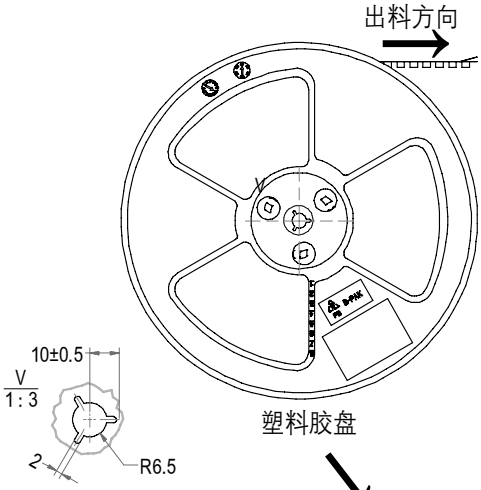


05~14P载带

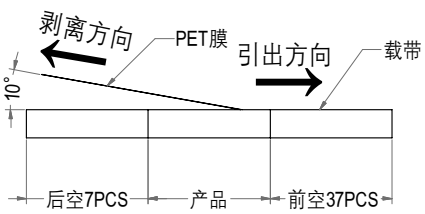


3D图示

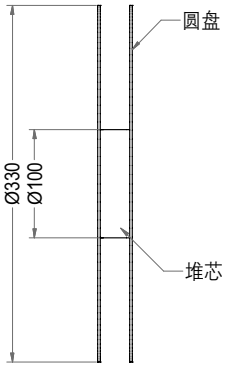
注释:

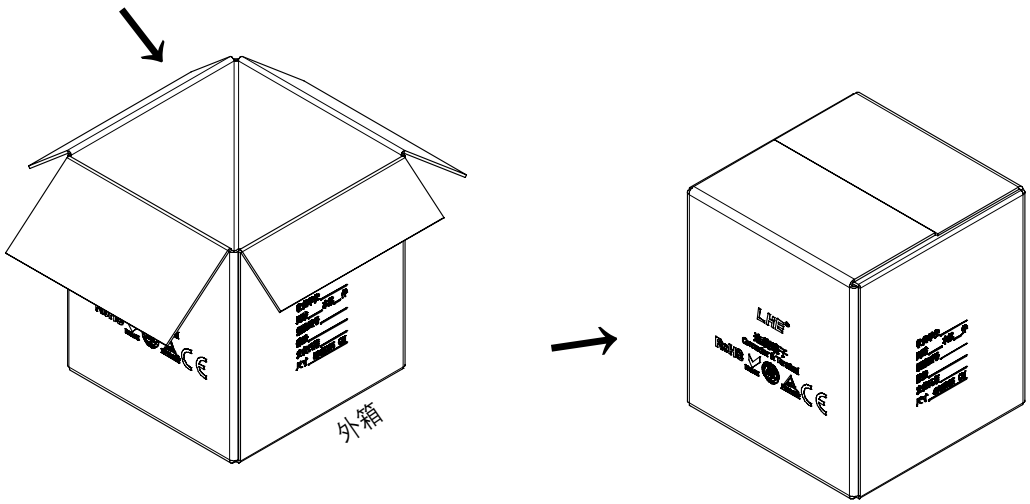


塑料胶盘



(PET膜剥离示意图)

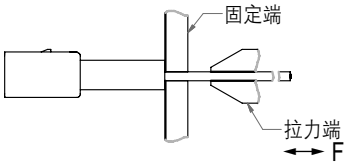
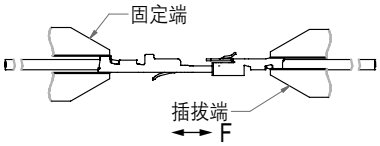
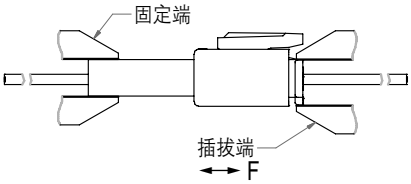
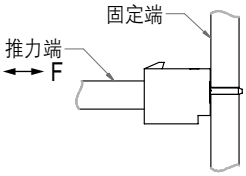
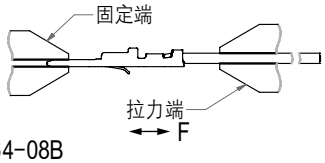




注释:
1.把成品包入卷盘中,每盘装700PCS,
卷盘上贴上合格证,将装好产品的卷盘放进外箱中,
外箱内先套一个大PE袋,外箱上贴上合格证。
2.此示意图为产品出料方式进行说明。
3.胶带、PE袋未在图纸中体现,请以实物为准。
4.包装方式同样适用于AWBB。

Poles	DIM. D	DIM.E	Q'ty/Reel	Packing(Reel/Caton)
02-04P	-	24	700PCS	15/Reel
05-06P	28.4	32	700PCS	11/Reel
07-10P	40.4	44	700PCS	8/Reel
11-14P	52.4	56	700PCS	7/Reel

LHE® 浙江联和电子有限公司			
品名	XHB-AWB包装	比例	1:16
料号	A2502-SR包装	未注公差(mm)	
图号	LHE\GC-36	>0~3	±0.12
材料	/	>3~18	±0.15
制图	王天2024-04-09	>18~50	±0.3
审核	天琴2024-04-09	>50~120	±0.5
批准	季育文2024-04-09	X°	±3°
视角		X.X°	±0.5°

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  	≥15N
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  	极数 Poles / 插入力(最大值N) Insertion(N Max) / 拔出力(最小值N) Withdrawal(N Min) 1st / 1st 1 / 10.0 / 2.0
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  	≥20N
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  	AWG.22# ≥30N AWG.24# ≥20N AWG.26# ≥15N AWG.28# ≥10N

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: ±1.5mm 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
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/s² 持续时间:11ms Mated connectors and subject to the following shock conditions,3times 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/s² Duration:11ms GB/T 5095.4 Method 6c/EIA-364-27B	接触电阻 Contact Resistance LLCR	≤20mΩ
		中断 Intermittence	≤1μ sec
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	≤20mΩ
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	≤10mΩ	
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	≥1000MΩ	
11. 耐电压 Dielectric Strength	相邻接触件之间或地线之间施加50Hz 1000V AC(有效值), 漏电流1mA的电压作用, 时间1min。 Mate connectors, apply 1000V 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	≤30℃
13. 耐高温 Heat Resistance	连接器配合后, 于+105℃±2℃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℃±2℃ 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℃±2℃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℃±2℃ for 96 hours. GB/T 5095.6 Method 11i /EIA-364-17B	接触电阻 Contact Resistance LLCR	≤20mΩ

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	1000V
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°Cproducts)	750C灼热丝顶部接触试验样品, 接触时间:(30士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士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士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: 2024-04-09

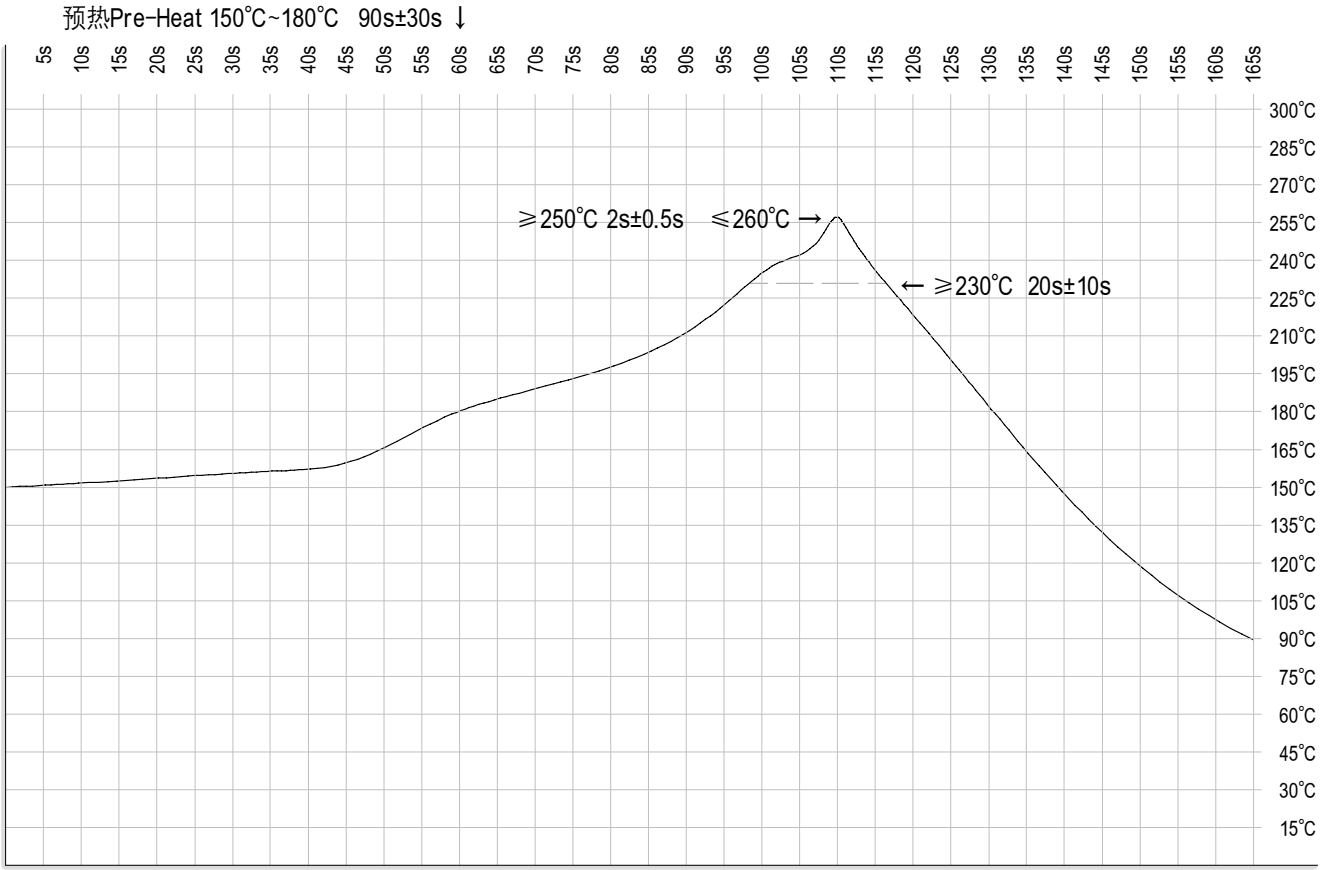
审核 Check: 天琴　　日期 DATE: 2024-04-09

批准 Approval: 季育文　　日期 DATE: 2024-04-09

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℃/s
浸泡时间 Soak time	tsoak 2-3	minutes
150℃以上时间 Time above 150℃	T1	60s
180℃以上时间 Time above 180℃	T2	50s
250℃以上时间 Time above 250℃	T3	2±0.5s
焊接温度 Peak temperature in reflow	Tpeak	255℃(-0/+5℃)
温度梯度的冷却 Temperature gradient in cooling		Max -5℃/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 reflux device.

浙江联和电子有限公司

产品性能测试报告

品名 (DESCRIPTION)	SMH250&XHB	测定者 (Inspector)	吴智原	测定条件 (Test Condition)	温度: 22℃ (Temperature)
料号 (MODEL NO.)	C2508&A2502	日期 (Date)	2022. 09. 17		湿度: 65% (Humidity)

试验项目 (Test Title)	规格 (Specification)		测定值(Data) X1	X2	X3	X4	X5	COM
带线胶壳与针座插拔力 <不带锁扣> Insertion and extraction force of rubber shell with thread and needle base<without lock>	2 pin Unit: N Mating force 20 max. Unmating force 4min.	插入(Mating)	8.44	7.39	8.61	7.77	8.04	OK
		拔出(Unmating)	5.08	5.32	6.13	5.11	5.60	OK
	3 pin Unit: N Mating force 30 max. Unmating force 6min.	插入(Mating)	10.38	9.12	11.53	10.13	10.75	OK
		拔出(Unmating)	7.19	6.98	7.49	7.72	8.16	OK
	4 pin Unit: N Mating force 40 max. Unmating force 8min.	插入(Mating)	13.95	13.66	12.46	14.41	13.74	OK
		拔出(Unmating)	8.63	9.05	8.08	8.66	9.11	OK
	5 pin Unit: N Mating force 50 max. Unmating force 10min.	插入(Mating)	17.40	17.01	16.43	17.58	18.05	OK
		拔出(Unmating)	10.11	11.05	10.98	10.56	11.23	OK
	6 pin Unit: N Mating force 60 max. Unmating force 12min.	插入(Mating)	19.45	18.79	20.34	19.70	19.51	OK
		拔出(Unmating)	13.19	12.98	13.17	13.40	14.01	OK
	7 pin Unit: N Mating force 70 max. Unmating force 14min.	插入(Mating)	21.43	21.25	20.79	20.76	21.56	OK
		拔出(Unmating)	15.15	15.23	15.65	14.98	15.33	OK
	8 pin Unit: N Mating force 80 max. Unmating force 16 min.	插入(Mating)	22.56	22.05	21.58	22.33	21.47	OK
		拔出(Unmating)	18.54	18.15	19.52	18.72	19.31	OK
	9 pin Unit: N Mating force 90 max. Unmating force 18 min.	插入(Mating)	24.22	23.38	24.83	24.57	24.88	OK
		拔出(Unmating)	19.79	19.52	20.05	20.41	19.97	OK
	10 pin Unit: N Mating force 100 max. Unmating force 20 min.	插入(Mating)	26.44	26.81	27.08	26.77	27.16	OK
		拔出(Unmating)	21.65	22.18	21.82	22.31	21.94	OK
	11 pin Unit: N Mating force 110 max. Unmating force 22 min.	插入(Mating)	27.09	27.88	28.05	28.43	27.66	OK
		拔出(Unmating)	22.33	23.05	22.41	22.58	22.67	OK
	12 pin Unit: N Mating force 120 max. Unmating force 24 min.	插入(Mating)	39.36	40.02	39.63	39.28	40.11	OK
		拔出(Unmating)	44.02	44.09	44.43	43.64	43.92	OK

浙江联和电子有限公司

产品性能测试报告

品名 (DESCRIPTION)	SMH250&XHB	测定者 (Inspector)	吴智原	测定条件 (Test Condition)	温度: 22℃ (Temperature)
料号 (MODEL NO.)	C2508&A2502	日期 (Date)	2022. 09. 17		湿度: 65% (Humidity)

带线胶壳与针座插拔力 <不带锁扣> Insertion and extraction force of rubber shell with thread and needle base<without lock>	13 pin Unit: N Mating force 130 max. Unmating force 26 min.	插入(Mating)	43.14	43.56	42.40	42.43	43.32	OK
		拔出(Unmating)	45.31	44.62	44.98	44.75	44.36	OK
	14 pin Unit: N Mating force 140 max. Unmating force 28 min.	插入(Mating)	50.37	49.83	50.27	50.91	49.33	OK
		拔出(Unmating)	69.89	69.01	68.81	67.78	69.07	OK
	15 pin Unit: N Mating force 150 max. Unmating force 30 min.	插入(Mating)	55.13	54.37	55.87	55.19	55.52	OK
		拔出(Unmating)	72.08	72.74	71.28	72.63	72.52	OK
端子和胶壳的固定力 (Terminal Retention in housing)	15N Min		30.42	32.30	29.61	33.15	31.70	OK
端子和插针单独插入力 (Single terminal and PIN withdrawal force)	10N Max		2.78	3.11	2.92	3.24	3.60	OK
端子和插针单独拔出力 (Single terminal and PIN withdrawal force)	2N Min		4.13	5.01	4.65	5.11	4.27	OK
插针和壳体的固定力 (PIN Retention in insulator)	20N Min		26.35	33.22	29.17	30.61	27.82	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)	20mΩ Max	9.8	11.3	10.6	9.4	12.6	OK
盐雾试验 (Salt spray)	雾化16小时，插针不能有腐蚀现象 (Spray time:16 hours，PINs must not corrode)		PASS	PASS	PASS	PASS	PASS	OK
	接触电阻 (Contact Resistance)	20mΩ Max	12.1	9.7	11.5	13.3	10.5	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)	20mΩ Max	11.7	12.5	10.9	13.2	12.8	OK
	绝缘电阻 (Insulation Resistance)	1000MΩ Min	PASS	PASS	PASS	PASS	PASS	OK
	耐电压 (Dielectric Withstanding Voltage)	1000V,AC/minute	PASS	PASS	PASS	PASS	PASS	OK

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

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

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 ℃
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）	灼热丝试验仪 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

测试图片Test Picture

测试结果(The test results)

材料规格	试片尺寸(长 X 宽 X 厚) 单位:mm	起始温度(℃)	样品	起燃时间(Ti) 单位:秒	熄灭时间(Te) 单位:秒	现象记录	GWIT 判定:PASS 或 FAIL	GWFI 判定:PASS 或 FAIL
A66V0 002	60X60X2.5	750	第 1 个	不起燃	/	不起燃,无滴落	PASS (GWIT:775/2.5)	PASS (GWFI:750/2.5)
			第 2 个	不起燃	/	不起燃,无滴落		
			第 3 个	不起燃	/	不起燃,无滴落		
A66V0 002	60X60X2.5	775	第 1 个	不起燃	/	不起燃,无滴落	FALL	PASS (GWFI:775/2.5)
			第 2 个	不起燃	/	不起燃,无滴落		
			第 3 个	8	26	接触后很快就起燃,熔融但无滴落,起燃后 26S 熄灭		
A66V0 002	60X60X2.5	800	第 1 个	6	32	接触后很快就起燃,熔融但无滴落,起燃后 32S 熄灭	FALL	PASS (GWFI:800/2.5)
			第 2 个	5	31	接触后很快就起燃,熔融但无滴落,起燃后 28S 熄灭		
			第 3 个	6	33	接触后很快就起燃,熔融但无滴落,起燃后 33S 熄灭		

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，并且包装娟纸没有起燃，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 IEC 60695-11-10, -20
0.25 mm, ALL	V-0	
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

Form Number: E331274-103610472

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Report Date: 6/22/2009
Last Revised: 2018-02-12

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.

Component - Plastics

File Number: E331274

Thermal	Value	Test Method
RTI Elec		UL 746
0.25 mm	65.0 °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	65.0 °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	65.0 °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 UL Certification

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The information presented on the UL Prospector datasheet was acquired by UL Prospector from the producer of the material. UL Prospector makes substantial efforts to assure the accuracy of this data. However, UL Prospector assumes no responsibility for the data values and strongly encourages that upon final material selection, data points are validated with the material producer.

Component - Plastics

E106764

Guide Information

POLYPLASTICS CO LTD

18-1 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	HAI	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

Inclined Plane Tracking (IPT) kV: -

Dielectric Strength (kV/mm): 39

Volume Resistivity (10^x ohm-cm): 16

High-Voltage Arc Tracking Rate (HVTR): 0

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

Dimensional Stability (%): 0

(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.

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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	-	-

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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) JWPF-LHE, 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 LHE , 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

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制造商名称及注册地址	浙江联和电子有限公司 浙江省乐清市乐清湾港区乐商创业园
生产企业名称及生产地址	浙江联和电子有限公司 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℃, 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。

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中国质量认证中心

CHINA QUALITY CERTIFICATION CENTRE 中国质量认证中心

http://www.cqc.com.cn　　中国・北京・南四环西路188号9区　100070　　电话：+86 10 83886666

C 0453132

ZERTIFIKAT ■ CERTIFICATE ■ СЕРТИФИКАТ ■ CERTIFICADO ■ CERTIFICAT

Verification No.: CLZJ1411264692

GTS

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, 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 Ⅲand Ⅳ of the Directive are fulfilled.

Approved by: Hermann Weiher

GLOBAL TESTING SERVICES CO., LTD. COMMON SEAL

CE

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

GLOBAL TESTING SERVICES CO., LTD. GTS CERTIFICATION

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

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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℃, 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

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C 0453132

THE INTERNATIONAL CERTIFICATION NETWORK

CERTIFICATE

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:

GB/T 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
President of CQC

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CQC *China* CQM *China* CQS *Czech Republic* Cro Cert *Croatia* DQS Holding GmbH *Germany* EAGLE Certification Group *USA*
FCAV *Brazil* FONDONORMA *Venezuela* ICONTEC *Colombia* Inspecta Sertifiointi Oy *Finland* INTECO *Costa Rica*
IRAM *Argentina* JQA *Japan* KFQ *Korea* MIRTEC *Greece* MSZT *Hungary* Nemko AS *Norway* NSAI *Ireland*
NYCE-SIGE *México* PCBC *Poland* Quality Austria *Austria* RR *Russia* SII *Israel* SIQ *Slovenia*
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* The list of IQNet partners is valid at the time of issue of this certificate. Updated information is available under www.iqnet-certification.com

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中国认可
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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-乙基已基)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
授权签名

Jenny Lan 兰柳珍
批准签署人

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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-乙基已基)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	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　　第 3 页，共 11 页

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) 最大允许极限值引用自 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/cm²	0.10	ND

备注：
(1) 最大允许极限值引用自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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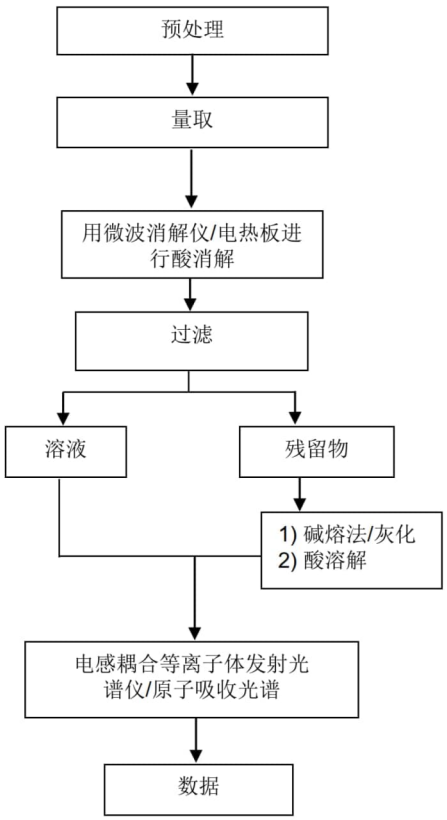
附件

元素检测流程图

样品按照下述流程被完全消解



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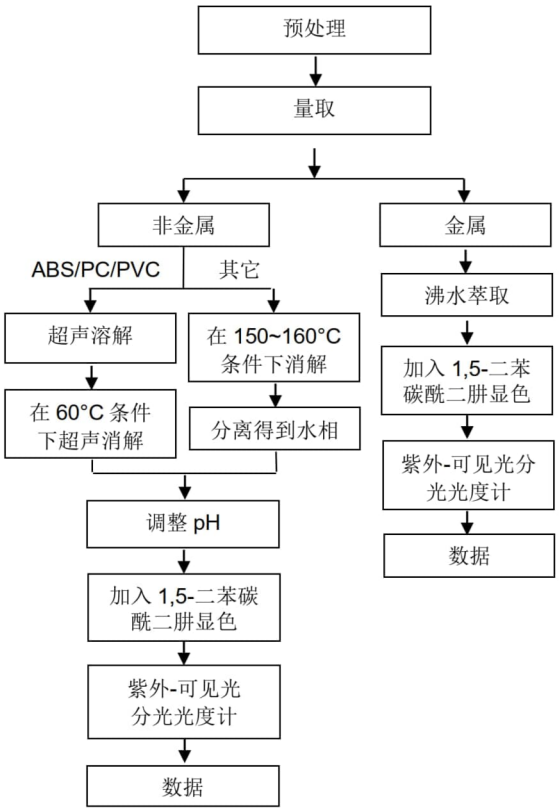
检测报告 编号：SHAEC24005901604 日期：2024 年 04 月 18 日 第 5 页，共 11 页

附件

六价铬检测流程图



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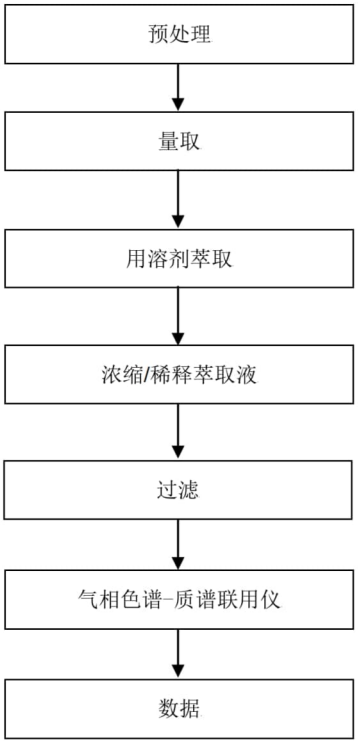
附件

PBB/PBDE 检测流程图



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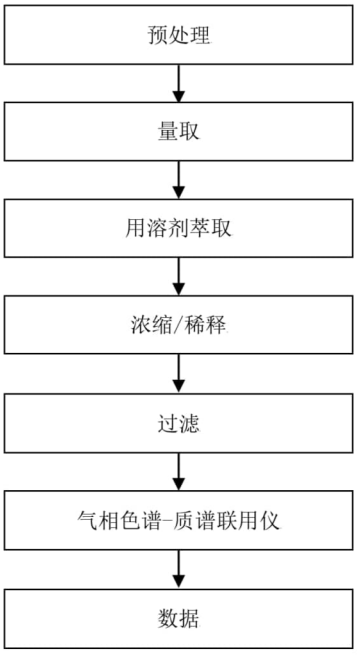
Phthalates 检测流程图



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检测报告 编号：SHAEC24005901604 日期：2024 年 04 月 18 日 第 8 页，共 11 页

附件：

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，SMF，Cy-X201，35108，35150，35151，35224，35180，35965，42021，42022，42002，35955，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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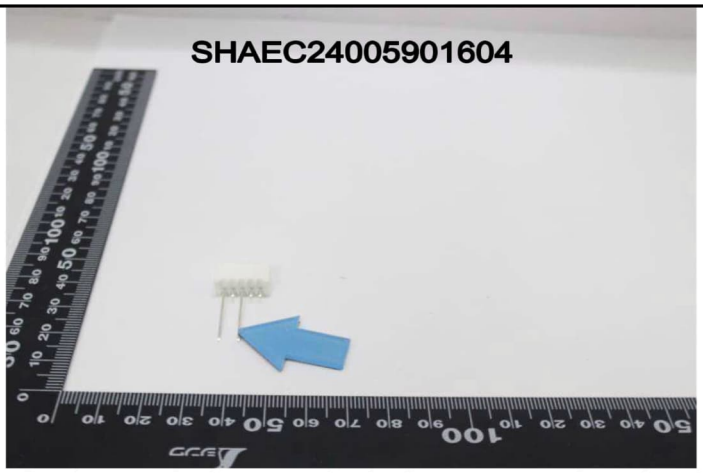
样品照片：

SHA24-0059016-0001.C001



SHA24-0059016-0001.C002

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CNAS L0599

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、镉和六价铬	符合

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检测报告 编号：SHAEC24008425816 日期：2024 年 05 月 07 日 第 2 页，共 8 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	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/cm²	0.10	ND

备注：
(1) 最大允许极限值引用自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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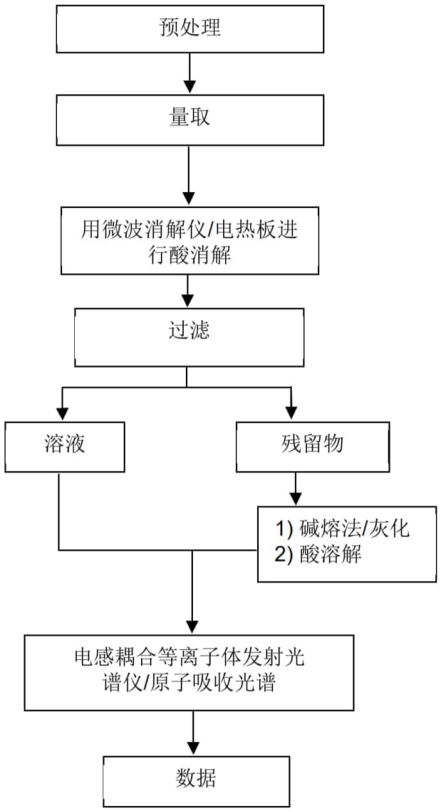
附件

元素检测流程图

样品按照下述流程被完全消解



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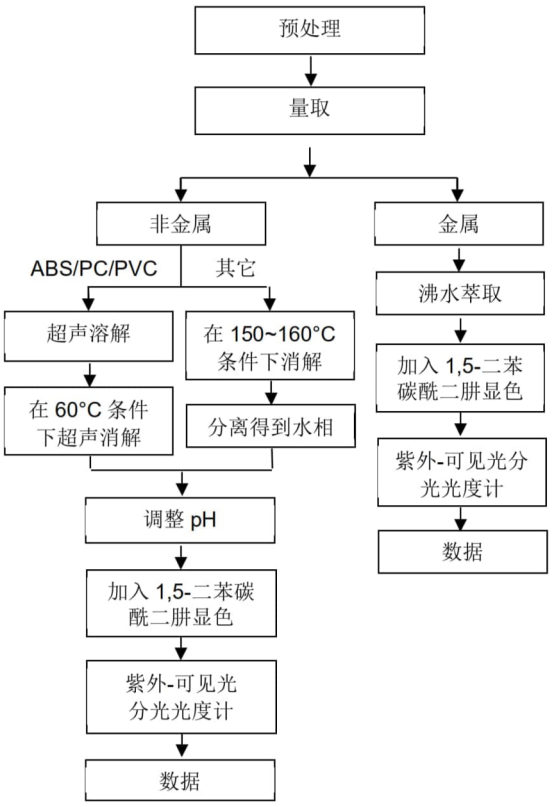
附件

六价铬检测流程图



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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，SMF，Cy-X201，35108，35150，35151，35224，35180，35965，42021，42022，42002，35955，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
NH，XHQ，42474，42475，QH，NV，50300，50301，5025，3191，5199，STV5，YHL500，YWL500，F001，F002，D440，D600，D620，D700，D220，D230，D250，D480，D520，D280，D630，D430，D400，D450，U-T，F1001-T，SIN-T，774，773，778，294，TU-JTK(SV)，TU(SNB)，TO-JTK(RV)，MDD，FDD，TG-JT，IDC，AUTO，CONNECTOR，DJ70，DT04，DT06，UY/K1，UY2/K2，UR/K3，UR2，UB/K4，UB2A，UG/K5，U1R/K8，U1B/K9，HJKT10，UDW2，314，A5001，A5002，MC100，FPC2.54，SGN，PHR，ZHR，205，5.2，C1801，C1802，2060，A5003，ME020，ME010，FPC/FFC，B2541，1971845，1971846，2232043，2232044，2232511，1971895，1971896，JWPF，SY，Molex1.5，ME0100，RAST，A5004，DV，SJN，SDN，35182，35524，RCY，LC，VR，SHJ，SHL，DF19，ACH，IL-Z，SATA，XSR，SUR，SUH，ZE，ZND，ZPD，SFH，PUD，AMP2.0，35507，DF3，PND，RE，RA，RF，SYP/SYR，HIF3，MC100/ME020/ME010，F2541，VHB，VHC，VHD
SHB1.0, NHB1.0, FIS, VHE, 35313, 30PIN, PR9-409, PR5-70-1, PR5-24, 5240B, 5500B, 5600B,13006,13007, 3DLG06FW, 1719057, 1719058, 1719059, CS28H, 9102501, 9103101, 9111001, PP0311401, 33EMMT26FBK, 3CN2BH02, 3FW06FBM, PP0426613, PP0426202, GIC3.3, 1376421-1, XADR, XADRR, 179846, 179849, XHR, 50235, PAD, PNI, SDL2.5, PS-250-2A-15, 4.8, 62306, H9002, DC4235, 62308, 62420-1, B35E0, 63658-1, 1060-16-0122, RH0409000142, RH011810030061, RH040499000142, RH011810030090, 299900421692, 33146412, 1.25 插板, SPS-01T-110, 282104-1, 282105-1, 282110-1, 282109-1, 21T1000501, 20T1001001, PP043531T, XNIRP, XL, 1123343-1, DF16, 1473413-1, 12147302, MG641234-5, PHBS,0.8, Molex1.2, 35746, 35748, APM2.54

1969738, 1969740, 1971845, 1971846, 1971895, 1971896, 1971946 thru 1971949, 1971954 thru 1971957, 2232008 thru 2232011, 2232000 thru 2232003, 2232016 thru 2232019, 1971962 thru 1971965, 2232024 thru 2232027, 2232289 thru 2232292, 2232043 thru 2232074, 2232298 thru 2232301, 2232511, 2232532, 2232557, 2232559, 2232560, 2232562, 2232563, 2232565, 2232566, 2232568, 2232569, 2232571, 2232572, 2232574, 2232575, 2232577, 2232578, 2232580, 2232581, 2232583, 2232584, 2232586, 2232587, 2232589, 2232590, 2232592, 2232593, 2232595, 2232596, 2232598, 2232599, 2232601, 2232602, 2232604, 2232605, 2232607, 2232608, 2232611 thru 2232682, 2292457, 2292458, 1064,2064,3064,1080,2080,3080,1100,2100,3100,1120, 2120,3120,1150,2150,3150, 1180,2180,3180,1230,2230, 3230,1250,2250,3250,1280,2280,3280,1300,2300,3300, 1480,2480,3480, 1630,2630,3630,1780,2780,3780,1950, 2950,3950,1010,2010,3010,1013,2013,3013,1015,2015, 3015, 1016,2016,3016,1025,2025,3025,1035,2035,3035, 1045,2045,3045,1058,2058,3058,1999,2999,3999, 401,402,403,503,TPA,BX,CPA, 404, 501, 502
A1001 A1002 A1003 A1004 A1005 A1006 A1007 A1008 A1009
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A2010	A2011	A2012	A2013	A2014	A2015	A2016	A2017	A2018
A2501	A2502	A2503	A2504	A2505	A2506	A2507	A2508	A2509
A25010	A25011	A25012	A25013	A25014	A25015	A25016	A25017	A25018
A2541	A2542	A2543	A2544	A2545	A2546	A2547	A2548	A2549
A3001	A3002	A3003	A3004	A3005	A3006	A3007	A3008	A3009
A3301	A3302	A3303	A3304	A3305	A3306	A3307	A3308	A3309
A3961	A3962	A3963	A3964	A3965	A3966	A3967	A3968	A3969
A4201	A4202	A4203	A4204	A4205	A4206	A4207	A4208	A4209
A5001	A5002	A5003	A5004	A5005	A5006	A5007	A5008	A5009
A5081	A5082	A5083	A5084	A5085	A5086	A5087	A5088	A5089
A6501	A6502	A6503	A6504	A6505	A6506	A6507	A6508	A6509
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P0010	P0011	P0012	P0013	P0014	P0015	P0016	P0017	P0018
P0019	P0020	P0021	P0022	P0023	P0024	P0025	P0026	P0027

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D2301 D2302 D2303 D2304 D2305 D2306 D2307 D2308 D2309
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D2201 D2202 D2203 D2204 D2205 D2206 D2207 D2208 D2209
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A10001 A4141 A7501 A7502 A3501 A1201 A4001 A6351 B14501
A20013 A1202 D2501 A1801 A1802

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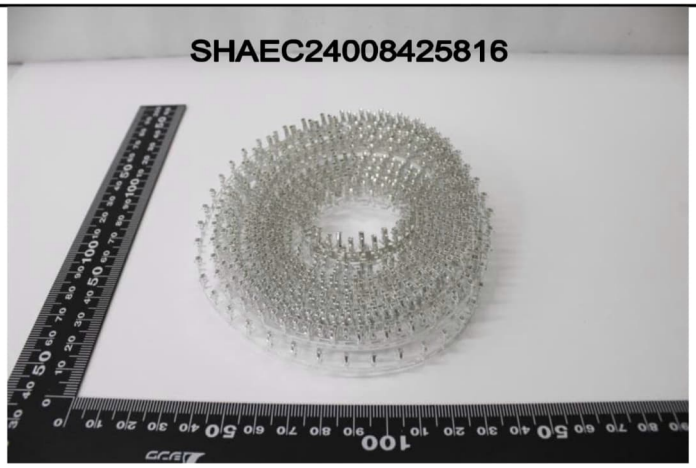
检测报告 编号：SHAEC24008425816 日期：2024 年 05 月 07 日 第 8 页，共 8 页

样品照片：



SHA24-0084258-0001.C003

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检测报告

编号：SHAEC24008219302　　日期：2024 年 04 月 29 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：　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-乙基已基)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

通标标准技术服务（上海）有限公司
授权签名

Jenny Lan 兰柳珍
批准签署人

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检测报告 编号：SHAEC24008219302 日期：2024 年 04 月 29 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	SHA24-0082193-0001.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-乙基已基)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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检测报告

编号：SHAEC24008219302　　日期：2024 年 04 月 29 日　　第 3 页，共 11 页

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) 最大允许极限值引用自 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。

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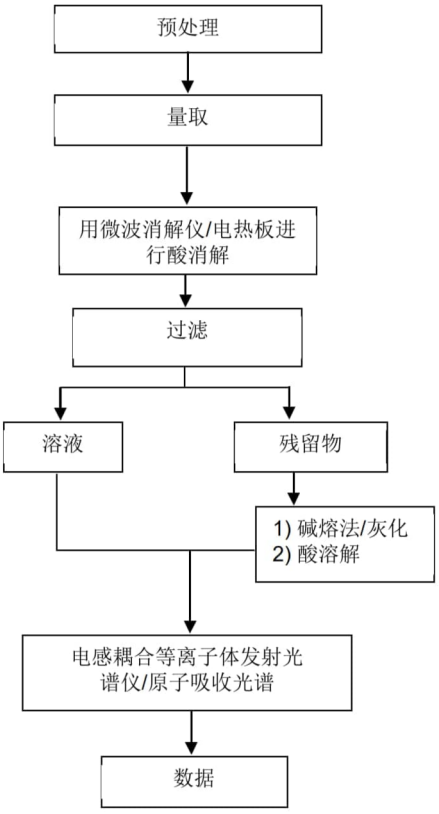
元素检测流程图

样品按照下述流程被完全消解



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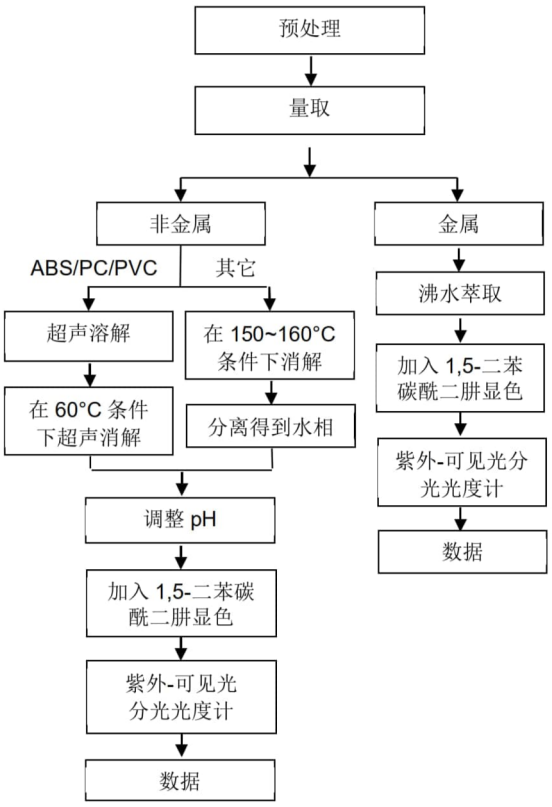
附件

六价铬检测流程图



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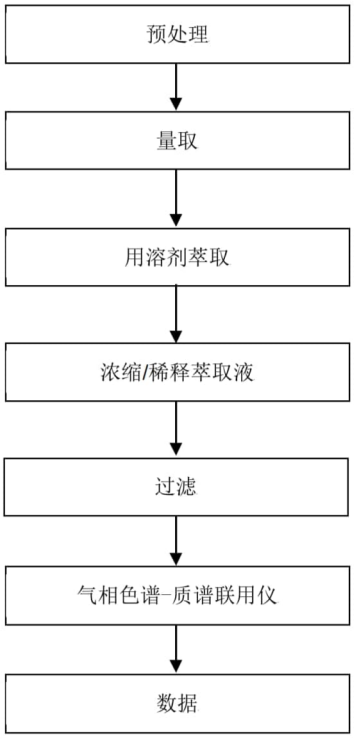
PBB/PBDE 检测流程图



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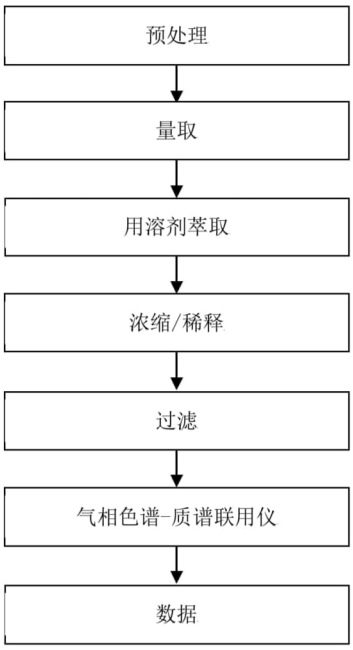
Phthalates 检测流程图



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附件：

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，SMF，Cy-X201，35108，35150，35151，35224，35180，35965，42021，42022，42002，35955，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

NH，XHQ，42474，42475，QH，NV，50300，50301，5025，3191，5199，STV5，YHL500，YWL500，F001，F002，D440，D600，D620，D700，D220，D230，D250，D480，D520，D280，D630，D430，D400，D450，U-T，F1001-T，SIN-T，774，773，778，294，TU-JTK(SV)，TU(SNB)，TO-JTK(RV)，MDD，FDD，TG-JT，IDC，AUTO，CONNECTOR，DJ70，DT04，DT06，UY/K1，UY2/K2，UR/K3，UR2，UB/K4，UB2A，UG/K5，U1R/K8，U1B/K9，HJKT10，UDW2，314，A5001，A5002，MC100，FPC2.54，SGN，PHR，ZHR，205，5.2，C1801，C1802，2060，A5003，ME020，ME010，FPC/FFC，B2541，1971845，1971846，2232043，2232044，2232511，1971895，1971896，JWPF，SY，Molex1.5，ME0100，RAST，A5004，DV，SJN，SDN，35182，35524，RCY，LC，VR，SHJ，SHL，DF19，ACH，IL-Z，SATA，XSR，SUR，SUH，ZE，ZND，ZPD，SFH，PUD，AMP2.0，35507，DF3，PND，RE，RA，RF，SYP/SYR，HIF3，MC100/ME020/ME010，F2541，VHB，VHC，VHD
SHB1.0, NHB1.0, FIS, VHE, 35313, 30PIN, PR9-409, PR5-70-1, PR5-24, 5240B, 5500B, 5600B,13006,13007, 3DLG06FW, 1719057, 1719058, 1719059, CS28H, 9102501, 9103101, 9111001, PP0311401, 33EMMT26FBK, 3CN2BH02, 3FW06FBM, PP0426613, PP0426202, GIC3.3, 1376421-1, XADR, XADRR, 179846, 179849, XHR, 50235, PAD, PNI, SDL2.5, PS-250-2A-15, 4.8, 62306, H9002, DC4235, 62308, 62420-1, B35E0, 63658-1, 1060-16-0122, RH0409000142, RH011810030061, RH040499000142, RH011810030090, 299900421692, 33146412, 1.25 插板, SPS-01T-110, 282104-1, 282105-1, 282110-1, 282109-1, 21T1000501, 20T1001001, PP043531T, XNIRP, XL, 1123343-1, DF16, 1473413-1, 12147302, MG641234-5, PHBS,0.8, Molex1.2, 35746, 35748, APM2.54

1969738, 1969740, 1971845, 1971846, 1971895, 1971896, 1971946 thru 1971949, 1971954 thru 1971957, 2232008 thru 2232011, 2232000 thru 2232003, 2232016 thru 2232019, 1971962 thru 1971965, 2232024 thru 2232027, 2232289 thru 2232292, 2232043 thru 2232074, 2232298 thru 2232301, 2232511, 2232532, 2232557, 2232559, 2232560, 2232562, 2232563, 2232565, 2232566, 2232568, 2232569, 2232571, 2232572, 2232574, 2232575, 2232577, 2232578, 2232580, 2232581, 2232583, 2232584, 2232586, 2232587, 2232589, 2232590, 2232592, 2232593, 2232595, 2232596, 2232598, 2232599, 2232601, 2232602, 2232604, 2232605, 2232607, 2232608, 2232611 thru 2232682, 2292457, 2292458, 1064,2064,3064,1080,2080,3080,1100,2100,3100,1120, 2120,3120,1150,2150,3150, 1180,2180,3180,1230,2230, 3230,1250,2250,3250,1280,2280,3280,1300,2300,3300, 1480,2480,3480, 1630,2630,3630,1780,2780,3780,1950, 2950,3950,1010,2010,3010,1013,2013,3013,1015,2015, 3015, 1016,2016,3016,1025,2025,3025,1035,2035,3035, 1045,2045,3045,1058,2058,3058,1999,2999,3999, 401,402,403,503,TPA,BX,CPA, 404, 501, 502
A1001 A1002 A1003 A1004 A1005 A1006 A1007 A1008 A1009

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检测报告 编号：SHAEC24008219302 日期：2024 年 04 月 29 日 第 9 页，共 11 页

A1251	A1252	A1253	A1254	A1255	A1256	A1257	A1258	A1259
A1501	A1502	A1503	A1504	A1505	A1506	A1507	A1508	A1509
A2001	A2002	A2003	A2004	A2005	A2006	A2007	A2008	A2009
A2010	A2011	A2012	A2013	A2014	A2015	A2016	A2017	A2018
A2501	A2502	A2503	A2504	A2505	A2506	A2507	A2508	A2509
A25010	A25011	A25012	A25013	A25014	A25015	A25016	A25017	A25018
A2541	A2542	A2543	A2544	A2545	A2546	A2547	A2548	A2549
A3001	A3002	A3003	A3004	A3005	A3006	A3007	A3008	A3009
A3301	A3302	A3303	A3304	A3305	A3306	A3307	A3308	A3309
A3961	A3962	A3963	A3964	A3965	A3966	A3967	A3968	A3969
A4201	A4202	A4203	A4204	A4205	A4206	A4207	A4208	A4209
A5001	A5002	A5003	A5004	A5005	A5006	A5007	A5008	A5009
A5081	A5082	A5083	A5084	A5085	A5086	A5087	A5088	A5089
A6501	A6502	A6503	A6504	A6505	A6506	A6507	A6508	A6509
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B2001	B2002	B2003	B2004	B2005	B2006	B2007	B2008	B2009
B2501	B2502	B2503	B2504	B2505	B2506	B2507	B2508	B2509
B2541	B2542	B2543	B2544	B2545	B2546	B2547	B2548	B2549
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B13001	B13002	B13003	B13004	B13005	B13006	B13007	B13008	B13009
C01581	C01582	C01583	C01584	C01585	C01586	C01587	C01588	C01589
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C2001	C2002	C2003	C2004	C2005	C2006	C2007	C2008	C2009
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C6201	C6202	C6203	C6204	C6205	C6206	C6207	C6208	C6209
C6351	C6352	C6353	C6354	C6355	C6356	C6357	C6358	C6359
D2801	D2802	D2803	D2804	D2805	D2806	D2807	D2808	D2809
D4801	D4802	D4803	D4804	D4805	D4806	D4807	D4808	D4809
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D6301	D6302	D6303	D6304	D6305	D6306	D6307	D6308	D6309
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D7001	D7002	D7003	D7004	D7005	D7006	D7007	D7008	D7009
F0501	F0502	F0503	F0504	F0505	F0506	F0507	F0508	F0509
F05010	F05011	F05012	F05013	F05014	F05015	F05016	F05017	F05018
F1001	F1002	F1003	F1004	F1005	F1006	F1007	F1008	F1009
F10010	F10011	F10012	F10013	F10014	F10015	F10016	F10017	F10018
F2541	F2542	F2543	F2544	F2545	F2546	F2547	F2548	F2549
P0001	P0002	P0003	P0004	P0005	P0006	P0007	P0008	P0009
P0010	P0011	P0012	P0013	P0014	P0015	P0016	P0017	P0018

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P0019 P0020 P0021 P0022 P0023 P0024 P0025 P0026 P0027
D2301 D2302 D2303 D2304 D2305 D2306 D2307 D2308 D2309
D6001 D6002 D6003 D6004 D6005 D6006 D6007 D6008 D6009
D2201 D2202 D2203 D2204 D2205 D2206 D2207 D2208 D2209
B10901 B13601 C6001 C6002 C6003 C6004 A20010 A20011 P0028
P0029 P0030 P0031 B11001 C2201 C2202 C4101 C6701 C6702
D630J D700G A20012 P0032 B4001 A0801 A1271 A1803
A10001 A4141 A7501 A7502 A3501 A1201 A4001 A6351 B14501
A20013 A1202 D2501 A1801 A1802

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样品照片：

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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

第一部分：化学制品、产品或公司信息

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重要信息。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：轻微的不规则颗粒物状。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会造成机械性的伤害。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会造成机械性的伤害。

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是惰性的微害微粒。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昀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，使分解产物的释放昀小化。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	3.5 mg/cu m
	美国政府工业卫生专家会议 -临界值限定	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℃（509℉）
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℉（ 343℃）。避免长时间暴露在温度高于 600℉（316℃）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：毒物学信息
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/后须檫试干净，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：火和酸碱性物质		
危害分解物：无		
10. 毒性资料		
急毒性	吸人：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：浙江省温州乐清市乐清湾港区创新路8号	纯物质：
联络电话：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/后须檫试干净，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：火和酸碱性物质	
危害分解物：无	
10. 毒性资料	
急毒性	吸人：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	陈浙海
制表日期	2022-3-23

SAFETY DATA SHEET(SDS)

Issued: December 3 , 2015
Revised: March 9 , 2016

FileNo. 4052-1

1.Chemical Product & Company Identification

CHEMICALPRODUCT NAME:	LAPEROS®	E130i VF2201
NAME OF COMPANY:	Polyplastics Co.,Ltd.	
ADDRESS:	2-18-1 Konan, Minato-ku, Tokyo,108-8280 Japan	
SECTION IN CHARGE:	Quality Assurance Dept.	
TELEPHONE NUMBER:	03-6711-8605	
FACSIMILE NUMBER	03-6711-8616	

2. Hazards identification

[GHS CLASSIFICATION]

Physical and Chemical Hazards : ・Flammable solids : Classification not possible
・Self-reactive substances and mixtures : Not applicable
・Pyrophoric solids : Not classified
・Self-heating substances and mixtures : Not classified
・Substances and mixtures, which in contact with water, emit flammable gases : Not classified
・Oxidizing solids : Not classified
・Corrosive to metal : Not classified

Health Hazards : ・Carcinogeneses : No hazard
・Specific target organ/systemic toxicity (Repeated exposure) : No hazard

[GHS CLASSIFICATION]

Environmental Hazards : No hazard

[SYMBOL] : None

[SIGNAL WORD] : None

[HAZARD STATEMENT] : None

[PRECAUTIONARY STATEMENTS]

Prevention : ・Wash hands thoroughly after handling.
・Wear protective gloves.

Response : –

Storage : Avoid direct sunlight and store in a well-ventilated place.

Disposal : Dispose of contents/container in accordance with local & national regulations.

3. Composition/information on ingredients

SUBSTANCE/PREPARATION	:	Preparation
COMMON CHEMICAL NAME	:	Aromatic Liquid Crystal Polymer
SYNONYMS	:	Aromatic Liquid Crystal Polymer(LCP)
INGREDIENTS AND COMPOSITION	:	LCP ≧69%, Glass fiber 30%, Others ≦1%
CHEMICAL FORMURA	:	not open
SERIAL No. IN OFFICIAL GAZETTE	:	7-2577(base resin) (Law Concerning Examination and Regulation of Manufacture, etc. , of Chemical Substances)
CAS №.	:	147310-94-9(base resin)
INGREDIENTS CONTRIBUTING TO THE HAZARD	:	Cadmium, lead, hexavalent chromium and mercury are not used in this grade.

4. First-aid measures

INGESTION : When a gas generated from the molten polymer has been inhaled, move to area of fresh air without delay and wait until the victim is recovered. If sick feeling continues, ask a physician for advice.

SKIN CONTACT : Cool the contacted skin with clean water without delay, if a contact with the polymer in a molten form. Do not force to remove the solid resin on the skin. If any burns are observed on

		the skin, ask a physician for advice.
EYE CONTACT	:	Cool and rinse the eye with clean water for at least 15 minutes when the eyes had contact with molten polymer. In case of wearing contact lenses, remove the lenses as soon as possible, and ask a physician for advice. When the eye had contact with the polymer in an ordinary solid form, rinse the eye with clean water without delay. If the discomfort persists, ask a physician for advice.
SWALLOW	:	Help to vomit as much as possible. If sick feeling continues, and ask a physician for advice.
5. Fire-fighting measures		
EXTINGUISHING MEDIA	:	Water, foam fire-extinguishing agent, powder fire-extinguishing agent, and carbon dioxide gas.
SPECIFIC METHODS	:	Extinguish the fire with water. A method of extinguishing an ordinary fire may be applied. Do not apply water directly to processing machines.
SPECIFIC HAZARDS	:	Incomplete combustion leads to generation of toxic gases such as carbon monoxide or phenol, in addition to carbonic acid gas and water.
SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS	:	In case the fire gained force, use a gas mask or other protective equipment.
6. Accidental release measures		
PERSONAL PRECAUTIONS	:	When pellets were spilled on the road or floor, wipe them off with a besom or cleaner not to cause slipping.
ENVIRONMENTAL PRECAUTION	:	Handle the spillage in accordance with provisions given in the "Resin pellet spillage preventive manual", in order to prevent intakes by marine animals and birds.
7. Handling and storage		
HANDLING	:	LCP polymer in a pellet form will neither ignite nor explode at room temperatures.
HANDLING 2	:	This pellets spilled on the floor are likely to cause slipping. Remove such spillage at any times.
HANDLING 3	:	For molding work, effective means for local exhaust are required to discharge gases generated by melt processing.
HANDLING 4	:	Avoid inhaling of gases generated in molding work. Do not directly touch resin of high temperature.
HANDLING 5	:	Avoid retaining hot resin in the processing machines for many hours.
HANDLING 6	:	Glass fibers are not generally exposed in a single substance under normal processing and handling conditions as they are compounded in pellets. However, the following measures will be necessary to minimize the exposure to glass fibers or dusts containing glass fibers, when pellets or molded parts containing glass fibers are cut, ground or burnt, depending on environmental and operational conditions. ・Those who are sensitive in skin to glass fiber should wear suitable(protective) clothes to minimize the exposure of their skin. ・Wash working clothes apart from other laundry, so that the latter will not cause contamination with glass fibers. ・Provide the workshop with partitions to prevent diffusion of glass fiber dusts. ・Pay precautions not to rub face, neck or arms with hands. Wash hands and gargle after working without fall. ・Keep dust sources totally enclosed.

		・Provide local air exhausters and implement periodical inspections and adjustments at least once a year. ・Reduce cutting and grinding processes to the possible minimum, and devise working procedures to minimize dust generation. ・Provide dust-preventive masks, protective glasses and gloves for personal hygiene. ・Determine the operational environment at indoor working places and confirm the effects of environmental improvement. Note) Glass fibers are, like road dusts, told to be least hazardous to human bodies, but proper measures are required to avoid useless inhaling.
STORAGE	:	Keep the substance away from any fire or heat sources for the sake of safe storage.
STORAGE 2	:	Handle in accordance with municipal rules and regulations.
RECOMMENDED PACKAGING MATERIALS	:	No information.
8. Exposure controls/ personal protection		
CONTROL CONCENTRATION	:	None at present
PERMISSIBLE CONCENTRATION	:	OSHA PEL/1985 Max. permissible concentration of inactive powder 15mg/m3 - ditto - (Aspiration) 5 mg/m3 ACGIH TLV/1992 1993 Exposure limit of the powder TWA 10 mg/m3
ENGINEERING MEASURE	:	・When handling dust: Use totally enclosed containers resisting dust explosion. ・When heat melted in molding: Effective local ventilation must be provided.
PERSONAL PROTECTIVE EQUIPMENT		
RESPIRATORY PROTECTION	:	Wear a dust-proof mask.
HAND PROTECTION	:	Wear heat-resisting gloves against burns, when handling molten polymer.
EYE PROTECTION	:	Wear protective glasses or goggles.
SKIN & BODY PROTECTION	:	Wear long sleeve clothes against burns, when handling molten polymer.
9. Physical and chemical properties		
APPEARANCE etc.	:	Pellet
BOILING POINT	:	Not applicable
VAPOUR PRESSURE	:	Not applicable
VOLATILITY	:	Not applicable
INITIAL BOILING POINT	:	Not applicable
SUBLIMATION	:	None
MELTING POINT	:	335℃~345℃
DENSITY	:	1.61
SOLUBILITY	:	Insoluble in water
FLASH POINT	:	No finding
IGNITION POINT	:	540℃ or higher
EXPLOSION PROPERTY	:	Not applicable
INFLAMMABILITY	:	It is flammable, but shows self-fire extinguishing characteristics when kept away from flame.
REACTIVITY WITH WATER	:	None
OXIDIZABILITY	:	None
SELF-REACTIVITY	:	None
DUST EXPLOSIVENESS	:	No finding
10. Stability and reactivity		
STABILITY AND REACTIVITY	:	Stable for normal storage or handling.

11. Toxicological information

SKIN CORROSION/IRRITATION	:	No finding.
SERIOUS EYE DAMAGE/IRRITATION	:	Gas generated in drying or melting is irritating eyes and skins.
RESPIRATORY OR SKIN SENSITISATION	:	No finding
ACUTE TOXICITY(INCLUDING LD50)	:	No finding.
SUBACUTE TOXICITY	:	No finding.
CHRONIC TOXICITY	:	No finding.
CARCINOGENECITY	:	No finding.
MUTAGENECITY(Micro organisms, chromosomal aberration)	:	No finding.
REPRODUCTIVE TOXICITY	:	No finding.
TERATOGENICITY	:	No finding.
OTHERS(Including generation of hazardous gases by reaction with water, for example)	:	No finding in this report means that there will be no hazard in general, but no proving data available at the time of reporting.
OTHER CAUTIONS	:	With regard to dust, the maximum permissible concentration and limits are fixed by OSHA and ACGIH.
OTHER CAUTIONS 2	:	Information on hazards of glass fibers as filler.

〈Effects on Human Bodies〉

(1) Effects on skin

Stimulation to the skin with glass fibers may be caused when glass fibers diameter is larger than 4.5~5 μm. They give mechanical stimulation followed by itchiness to the skin, but further continuous exposure reportedly results in extinction of stimulation. It may sometimes leads to irritable dermatitis complicated with urticaria or eczema-like reaction. It is, however reported that such dermatitis is not so serious in general and does not last too long. Therefore, skin stimulation can be prevented by proper use of glass fibers.

(2) Effects on Tumor

Investigations made on glass fibers till today reveal that there is neither increase in mortality of glass fiber production workers due to lung cancer or mesothelioma nor such cases reported.

〈Animal Test Report〉

It is suggested that carcinogenecity of mineral fibers is dependent on their shapes rather than on their constituents. According to a report on experiments using 17 kinds of artificial mineral fibers in various sizes prepared by Dr.Stanton of National Cancer Institute, in USA, statistical studies on correlations between the diameter and length of fibers and the coincidence of mesothelioma have revealed that mineral fibers having a diameter smaller than 0.25 μm and a length larger than 8 μm are closely related to the coincidence of cancers. Since these experiments were performed by artificially dosing the subject animals with a large quantity of glass fibers and consequently they are quite different from the actual exposures to human bodies, it is told to be problematic to make a conclusion that mineral fibers are hazardous to human health, basing on the results obtained from these experiments. Up to the present time, there is no result obtainable to demonstrate a mechanism of glass fibers causing lung cancers in spite of experiment by long exposure to glass fibers with high concentration.

12. Ecological information		
BIODEGRADABILITY	:	No finding.
BIOACCUMULATION	:	No finding.
FISH TOXICITY	:	No finding.
HAZARDS TO OZONE LAYER	:	None
13. Disposal considerations		
WASTE FROM RESIDUES	:	This is designated as waste plastics among industrial wastes by the Wastes Disposal Law. Disposal waste pellets through licensed wastes handlers or local autonomous bodies if they are handling wastes disposal.
WASTE FROM RESIDUES 2	:	When disposed by incineration, use the well controlled incinerators in accordance with the Wastes Disposal Law, Air Pollution Control Law and Water Pollution Prevention Law.
14. Transport information		
UN CLASSIFICATION NUMBER	:	Not applicable
OTHER CAUTIONS	:	Handle with care so as not to give damages to containers or not to be subjected to wetting.
OTHER CAUTIONS 2	:	Secure the containers firmly so as not to cause collapsing.
15. Regulatory information		
WASTE DISPOSAL LAW	:	Waste plastics among industrial wastes.
16. Other information		
HANDLING OF THE DETAILS GIVEN ABOVE	:	This SDS is the English version translated from the Japanese SDS which is prepared for domestic use. Details given above are based on references, information and data available at this moment, but no warranty can be made on exactness of these details. They are also prepared on the assumption that the product will be handled in a normal way. For special handling, adequate safety and environmental measures should be taken in respect to its applications. Our products are not specifically intended for implants for medical and dental applications, and therefore they are not recommended for such applications. "No finding" in this report means that there will be no hazard in general, but no proving data is available at the time of reporting.
WHERE TO CALL FOR FURTHER INFORMATION	:	Polyplastics Co. , Ltd. Quality Assurance Dept. Tel. No 03-6711-8605

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