

YUEQING HONGYI ELECTRONICS CO., LTD

乐清市宏一电子有限公司

SPECIFICATION FOR APPROVAL

承 认 书

CUSTOMER 客户名称	
DESCRIPRION 产品名称	5264 系列连接器
ITEM NO 编 号	HY-A25406 (A89-90)
DATE 日 期	2022-9-18

CUSTOMER ACKNOWLEDGEMENT SEAL

客 户 承 认 印 签

(APPROVAL) 核准	(ENGINEERING) 工程	(PURCHASE) 采购	(QUALITY) 品质
承认结果： ☐ 通过 ☐ 不通过 ☐ 重新送样			

ISO9001

ISO14001

ISO45001

IATF16949 体系认证

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修订履历

[illegible]

产 品 承 认 书 目 录

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PRODUCT SPECIFICATION

产 品 规 范

1、Scope

适用范围

This specification includes the following specifications, including the specification of 2.50mm pitch 5264series connector

本规范包括下列此种规格包括 2.50mm 间距 5264 系列连接器规格说明

2、Appearance and Dimension

外观及尺寸

2.1 Appearance:Product surface without defect、dirt、crack、and mechanical damang,Contactwithout rust,plating not oxidized and not peeled.

产品表面不应有对制品有害的缺陷、污垢、裂痕及机械损伤；接触件无锈蚀、镀层氧化脱落等现象

2.2 Dimension:According to drawings

外形尺寸：依照附图

3、Disposal of Material and surface

材料与表面处理

Specification 规格内容		Material 材 质	Finish 表面处理	Environmental protection grade 环保等级
Terminal 端 子		Phosphor bronze 磷铜 厚 0.20mm	Tin Plating:2.5~5 μ m 镀锡：2.5~5 μ m	RoHS2.0
Housing 胶 壳		PA66 UL94V-0	Color: White /Beige 颜色：白色 /米色	
Wafer 直/弯针座	Plastic 塑 壳	PA66 UL94V-0	Color: White /Beige 颜色：白色 /米色	
	Contact 直针/弯针	Brass 黄铜 厚 0.70mm	Tin Plating:2.5~5 μ m 镀锡：2.5~5 μ m	
Wafer 卧贴针座	Plastic 塑 壳	PA6T UL94V-0	Color: Beige 颜色：米色	
	Contact 插 针	Brass 黄铜 厚 0.7mm	Tin Plating:2.5~5 μ m 镀锡：2.5~5 μ m	
	Solder tab 焊护耳	Brass 黄铜 厚 0.4mm	Tin Plating:2.5~5 μ m 镀锡：2.5~5 μ m	

4、Ratings and applicable wires

额定等级

Item 项 目	Standard 规 格
Rated Voltage 额定电压	250V AC/DC
Rated Current 额定电流	3A AC/DC
Ambient temperature Range 使用温度范围	-25℃- +85℃
Applicable wire insulation 适用线径	AWG22#-28#

5、Electrical Performance

电 气 性 能

N0. 序号	Ltem 项 目	Test mode 试验方法	Requirement 技术要求
5.1	ContactResistance 接触电阻	Male female cooperation, open voltage less than 20mV, current 100mA detection connector at both ends 公母配合, 开放电压20mV 以下, 电流100mA 检测连接器连接器两端	Initial:20mΩ Max 初始: 20mΩ Max After Test: 30mΩ Max 试验后: 30mΩ Max
5.2	withstandvoltage 耐电压	Mate connectors, apply 1000V AC for 1 minute between adjacent terminal or ground 公母配合, 在相邻端子, 端子与地片之间, 使用1000V 的交流电1 分钟, 检测连接器	No Breakdown and Flashover 外观无损伤, 无打火花
5.3	InsulationResistance 绝缘电阻	Mate connectors, apply 500V DC between adjacent terminal or ground 公母配合, 在相邻端子, 端子与地片之间, 使用500V 的直流电, 检测连接器	1000MΩ Min

6、机械性能

Mechanical Performance

N0. 序号	Ltem 项 目	Test mode 试验方法		Requirement 技术要求
6.1	Terminal crimping wire strength 端子压接导线强度	Fix the crimped terminal, apply axial pull out force on thewire 固定铆线后的端子，使电线与端 子分离时所需的最小力量	AWG#22 wire AWG#22 导线	40N Min
			AWG#24 wire AWG#24 导线	30N Min
			AWG#26 wire AWG#26 导线	20N Min
			AWG#28 wire AWG#28 导线	13N Min
6.2	Terminal/ Housing Retention Force 端子保持力	Apply axial pull out force at the speed rate of25.4±3mm/minute on the terminal assembled in the Housing 以每分25.4±3mm 的速率,将端子从Housing 内轴 向拔出力		Per contact: 20N Min 单一接触点: 20N Min
6.3	Insertion & withdraw Force 插拔力	Insert and withdraw Connectors at the speed rate of 25.4±3mm/minute 以每分钟 25.4±3mm 的速率插入和拔出		Refer to paragraph 8 参考第 8 项
6.4	Pin Retention Force Pin 针保持力	Apply axial push force at the speed rate of 25.4±3mm/minute 以每分 25.4±3mm 的速率,将 PIN 针从 Wafer 内轴向拔出力		Per contact: 10N Min 单一接触点: 10N Min

7、Endurance Characteristics:

环境性能

N0. 序号	Ltem 项 目	Test mode 试验方法	Requirement 技术要求	
7.1	Repeated Insertion/ Withdrawal 重复插拔	When mated up to 30 cycles repeatedly by the rate of 10 cycles per minute 以每分钟不超过 10 次的速率, 将公母插 拔 30 次	Contact Resistance 接触电阻	30 mΩ Max
7.2	Temperature Rise 温升测试	Mating connectors shall be energized at rating current until thermal stability is achieved, and then measured the termperature rise 公母连接器配合后, 加载额定电流直到温 度上升到稳定 状态, 然后再测量温升	Temperature Rise 温升测试	30℃ Max
7.3	Vibration test 振动测试	Amplitude: 1.5mm P-P Sweep time: 10~55~10 HZ in 1 minute Duration: 2 hours in each X.Y.Z axials 振幅: 1.5mm P-P 时间: 10~55~10 HZ in 1 minute 持续时间: 每轴向 2 小时	Appearance 外观	No damage 无异常
			Contact Resistance 接触电阻	30 mΩ Max
			Discontinuity 瞬断	1 micro- second Max.
7.4	Heat Resistance 耐热性	85±2℃,96 hours	Appearance 外观	No damage 无异常
			Contact Resistance 接触电阻	30 mΩ Max
7.5	Cold Resistance 耐寒性	-25±3℃,96 hours	Appearance 外观	No damage 无异常
			Contact Resistance 接触电阻	30 mΩ Max
7.6	Humidity 耐湿性	Temperature: 60±2℃ Relative Humidity: 90~95% Duration: 96 hours 温度: 60±2℃ 湿度: 90~95%(RH) 持续时间: 96 hours	Appearance 外观	No damage 无异常
			Contact Resistance 接触电阻	30 mΩ Max
			Withstand Voltage 耐电压	No Breakdown and Flashover 外观无损伤, 无打火花
			Insulation Resistance 绝缘电阻	1000MΩ Min

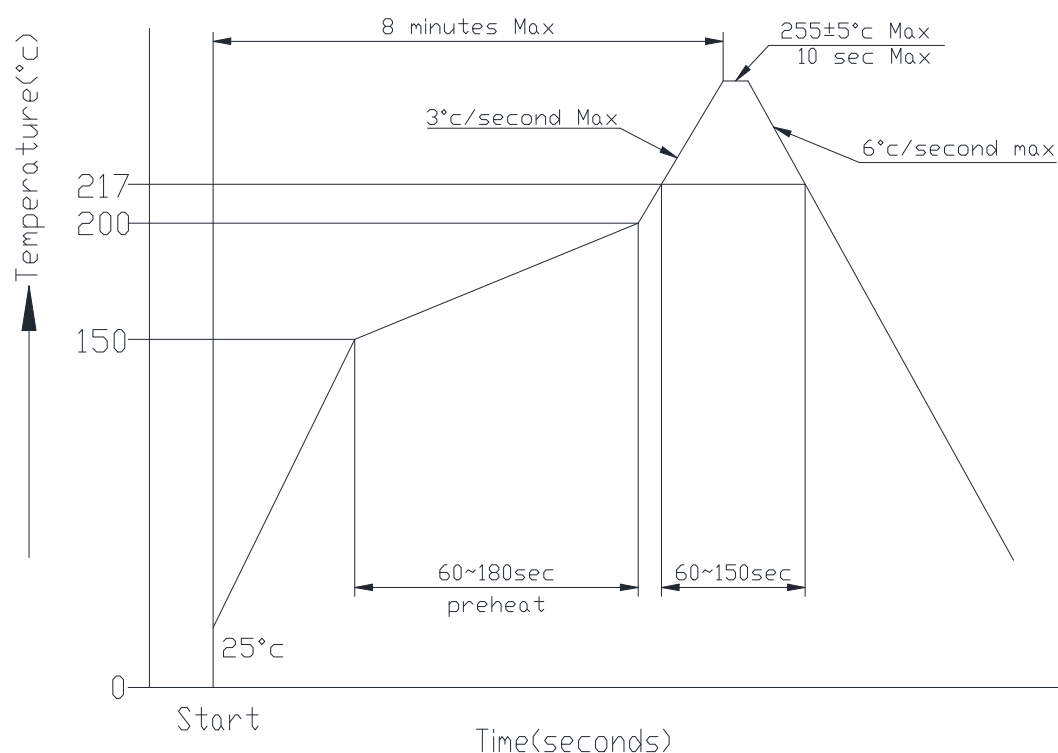
N0. 序号	Ltem 项 目	Test mode 试验方法	Requirement 技术要求	
7.7	温度变化 Temperature Cycling	5 cycles of: a) -25℃ 30 minutes b) +85℃ 30 minutes	Appearance 外观	No damage 无异常
		从-25℃持续30 分钟升至+85℃持续30 分钟, 循环5 次	Contact Resistance 接触电阻	30 mΩ Max
7.8	Salt spray 盐雾	24±1 hours exposure to a salt spray from the 5±1% solution at 35±2℃	Appearance 外观	No damage 无异常
		在温度35±2℃, 盐水浓度5±1%下, 盐水 喷雾24±1 小时	Contact Resistance 接触电阻	30 mΩ Max
7.9	Solderability 焊锡附着性	Soldering Time: 3-5sec solder Temperature: 245±5℃ 焊接时间: 3-5 秒 焊接温度: 245±5℃	Solder Wetting 焊料润湿	Immersion area above 95% 浸渍面积 95% 以上
7.10	Solder- Resistance 焊锡耐热性	DIP type PA66 material welding heat resistance range: Soldering time:3~5sec solder. Temperature:230±5℃ DIP 型 PA66 材质焊接耐热范围: 焊接时间: 3~5 秒. 焊接温度: 230±5℃ DIP type PA46 material welding heat resistance range: Soldering time:3~5sec solder. Temperature:245±5℃ DIP 型 PA46 材质焊接耐热范围: 焊接时间: 3~5 秒. 焊接温度: 245±5℃ SMT reflow soldering heat resistance range: Soldering time:5~10sec solder. Temperature:255±5℃ SMT 型回流焊接耐热范围: 焊接时间: 5~10 秒. 焊接温度: 255±5℃ Please refer to the 9.1 solder reflow temperature curve 回流焊请参考 9.1 温度曲线图	Appearance 外观	No damage 无异常

8、INSERTION/WITHDRAWAL FORCE

综合插入力及拔出力

No. of CTK PIN 数	At Initial 初始值		At 30th 插拔 30 次	No. of CTK PIN 数	At Initial 初始值		At 30th 插拔 30 次
	I. F (N Max) 插入力	W. F (N Min) 拔出力	W. F (N Min) 拔出力		I. F (N Max) 插入力	W. F (N Min) 拔出力	W. F (N Min) 拔出力
2	36	6.5	6	12	112	11.5	11
3	44	7	6.5	13	118	12	11.5
4	52	7.5	7	14	124	12.5	12
5	60	8	7.5	15	130	13	12.5
6	68	8.5	8	16	136	13.5	13
7	76	9	8.5	17	142	14	13.5
8	84	9.5	9	18	148	14.5	14
9	92	10	9.5	19	154	15	14.5
10	100	10.5	10	20	160	15.5	15
11	106	11	10.5				

9、 SMT lead-free process temperature curve SMT 无铅工艺温度曲线



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

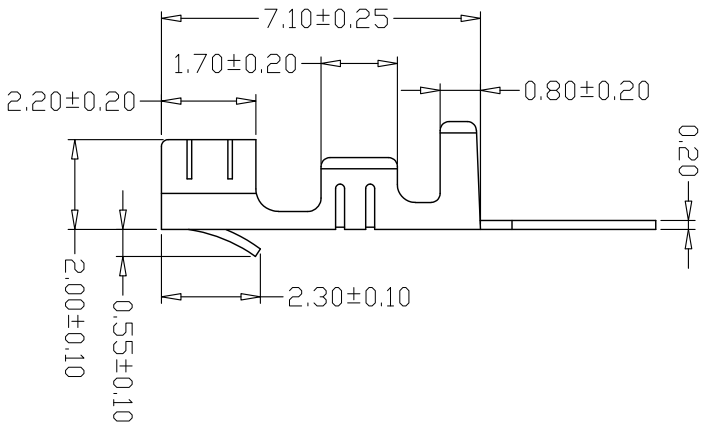
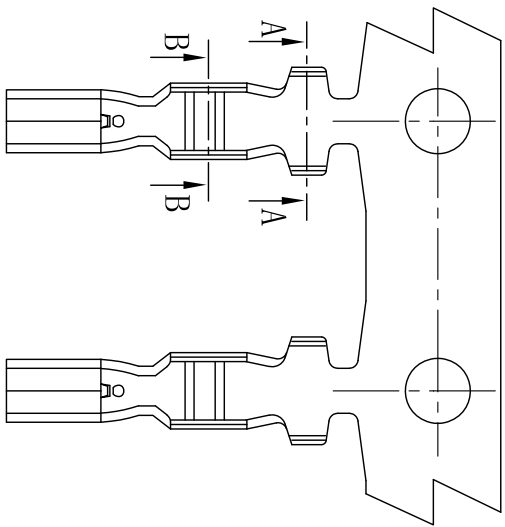
注记: 由于 P.C 板等焊接装置改变条件,所以请预先用自己的装置检查回流焊的条件

10、 Caution 注意事项

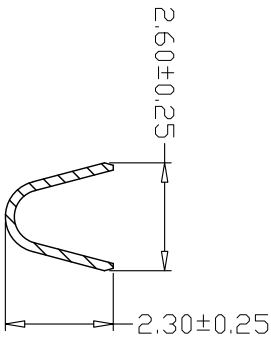
plastic because of characteristics with water after package is opened should avoid exposure to, the temperature is higher than 30 °C, humidity is higher than 60%RH in the environment, and in the 24 hours after all after use, to prevent subsequent reflow, wave soldering process to produce foaming phenomenon of deformation

塑料因具有吸水之特性包装拆封后应避免暴露于, 温度高于 30°C, 湿度高于 60%RH 的环境中, 并在拆封后 24 小时内全数使用完毕, 防止后续回流焊、波峰焊制程产生起泡变形现象

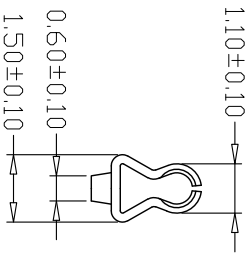
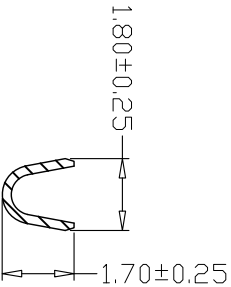
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SEC:A-A



SEC:B-B



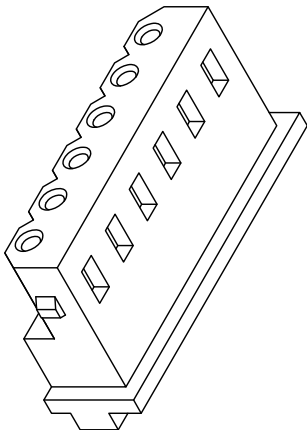
SPECIFICATIONS

- Current Rating: 3A AC, DC
- Voltage Rating: 250V AC, DC
- Temperature Range: -25℃~+85℃
- Contact Resistance: 20mΩ Max
- Insulation Resistance: 1000MΩ Min
- Withstanding Voltage: 1000V AC/minute
- Material: Phosphoric bronze Tin-plated
- Applicable Wire Sizes: AWG#22~28#

GENERAL TOLERANCE		制图 Mapping	张迎春 2022、09、17	料号 PART NO.	A25406-T	版本 REV.	A
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.XXX±0.10	.XXX°±0.5°	单位 Units	mm	比例 SCALE			

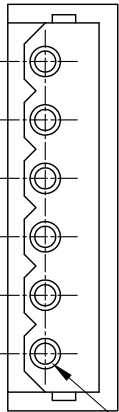
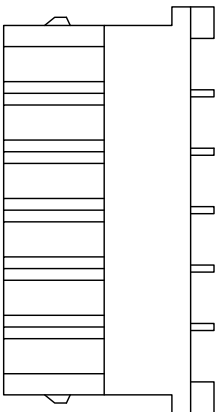
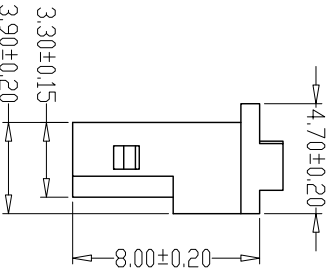
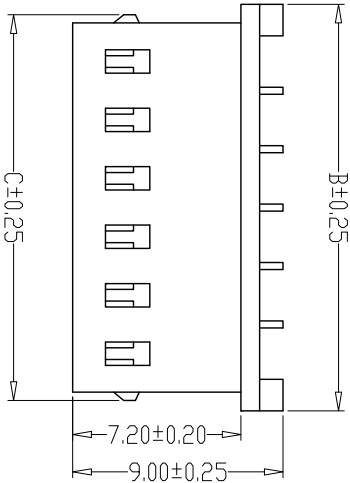
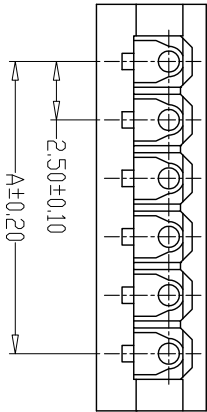
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版本 REV.	日期 DATE	ECN NO.	变更内容 DESCRIPTION	制图 DRAWN



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- Voltage Rating: 250V AC, DC
- Temperature Range: -25°C~+85°C
- Contact Resistance: 20mΩ Max
- Insulation Resistance: 1000MΩ Min
- Withstanding Voltage: 1000V AC/minute
- Material: PA66, UL94V-0

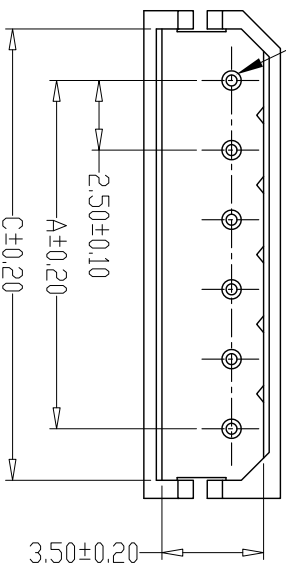


Circuit 1

PIN	尺寸 (mm)		
	A	B	C
-02Y	2.50	7.40	6.50
-03Y	5.00	9.90	9.00
-04Y	7.50	12.40	11.50
-05Y	10.00	14.90	14.00
-06Y	12.50	17.40	16.50
-07Y	15.00	19.90	19.00
-08Y	17.50	22.40	21.50
-09Y	20.00	24.90	24.00
-10Y	22.50	27.40	26.50
-11Y	25.00	29.90	29.00
-12Y	27.50	32.40	31.50
-13Y	30.00	34.90	34.00
-14Y	32.50	37.40	36.50
-15Y	35.00	39.90	39.00
-16Y	37.50	42.40	41.50
-17Y	40.00	44.90	44.00
-18Y	42.50	47.40	46.50
-19Y	45.00	49.90	49.00
-20Y	47.50	52.40	51.50

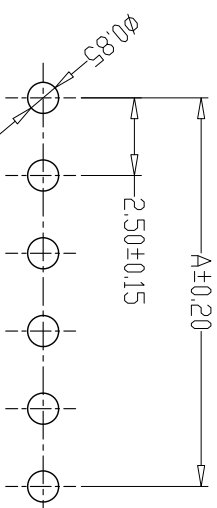
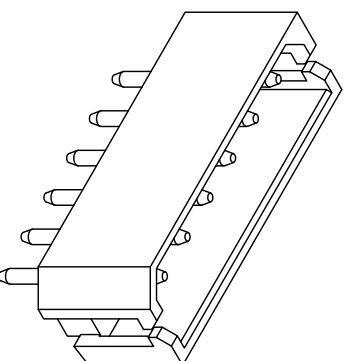
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XX±0.15	XX°±0.5°	核准	张名	客户料号	
XXX±0.10	XXX°±0.5°	单位	2022. 09、 18	CITL NO.	
		Units	mm	比例	
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			7		
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YueQing HongYiElectronics Co., Ltd					

Circuit 1



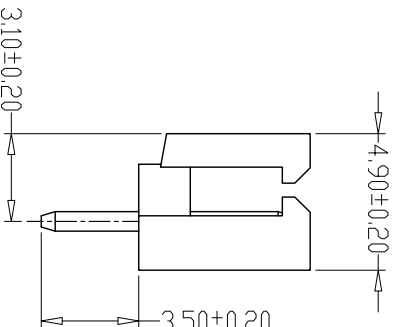
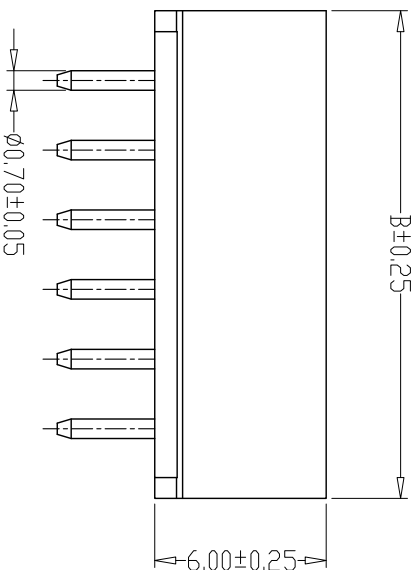
SPECIFICATIONS

- Current Rating: 3A AC, DC
 - Voltage Rating: 250V AC, DC
 - Temperature Range: -25°C~+85°C
 - Contact Resistance: 20mΩ Max
 - Insulation Resistance: 1000MΩ Min
 - Withstanding Voltage: 1000V AC/minute
 - Material: Wafer PA66, UL94V-0
- PIN Brass Tin-plated



PCB LAYOUT

PIN	尺寸 (mm)		
	A	B	C
-02A	2.50	7.50	6.20
-03A	5.00	10.00	8.70
-04A	7.50	12.50	11.20
-05A	10.00	15.00	13.70
-06A	12.50	17.50	16.20
-07A	15.00	20.00	18.70
-08A	17.50	22.50	21.20
-09A	20.00	25.00	23.70
-10A	22.50	27.50	26.20
-11A	25.00	30.00	28.70
-12A	27.50	32.50	31.20
-13A	30.00	35.00	33.70
-14A	32.50	37.50	36.20
-15A	35.00	40.00	38.70
-16A	37.50	42.50	41.20
-17A	40.00	45.00	43.70
-18A	42.50	47.50	46.20
-19A	45.00	50.00	48.70
-20A	47.50	52.50	51.20



GENERAL TOLERANCE		制图	张迎春	料号	A25406-mA	版本	A
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X.±0.25	X.°±1°	审核	钱岳生	TITLE	WAFER DIP TYPE	页次	1/1
XX±0.15	XX°±0.5°	核准	张名	客户料号		Sheet	
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		单位	mm	比例	SCALE		

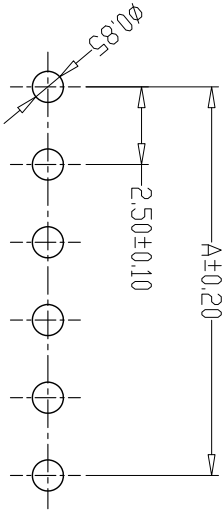
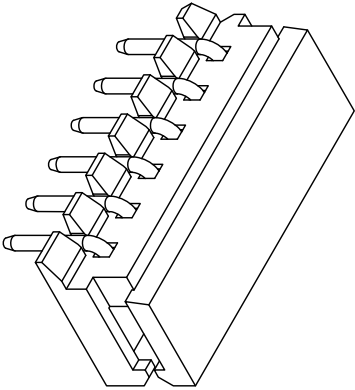
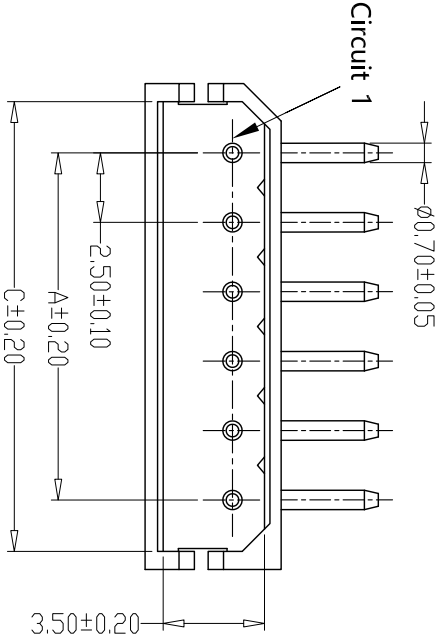
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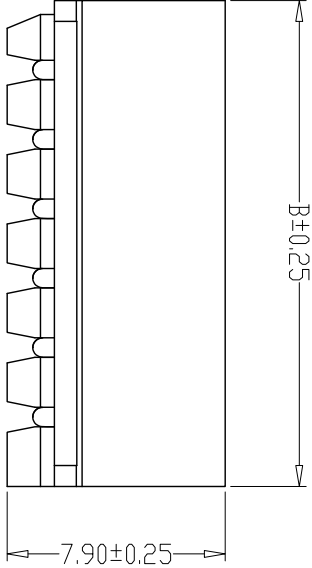
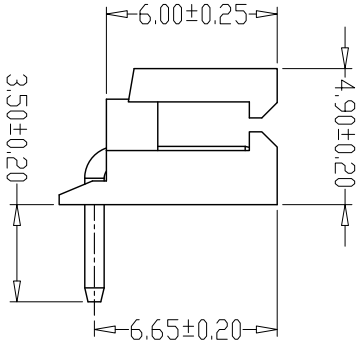
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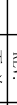
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- Insulation Resistance: 1000MΩ Min
- Withstanding Voltage: 1000V AC/minute
- Material: Wafer PA66, UL94V-0
- PIN Brass Tin-plated



PCB LAYOUT

PIN	尺寸 (mm)		
	A	B	C
-02AWD	2.50	7.50	6.20
-03AWD	5.00	10.00	8.70
-04AWD	7.50	12.50	11.20
-05AWD	10.00	15.00	13.70
-06AWD	12.50	17.50	16.20
-07AWD	15.00	20.00	18.70
-08AWD	17.50	22.50	21.20
-09AWD	20.00	25.00	23.70
-10AWD	22.50	27.50	26.20
-11AWD	25.00	30.00	28.70
-12AWD	27.50	32.50	31.20
-13AWD	30.00	35.00	33.70
-14AWD	32.50	37.50	36.20
-15AWD	35.00	40.00	38.70
-16AWD	37.50	42.50	41.20
-17AWD	40.00	45.00	43.70
-18AWD	42.50	47.50	46.20
-19AWD	45.00	50.00	48.70
-20AWD	47.50	52.50	51.20

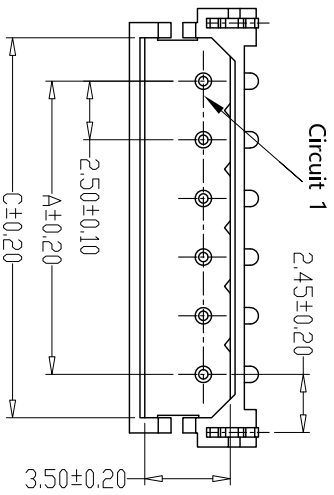


GENERAL TOLERANCE		制 图 Mapping	张迎春 2022. 09. 17	料 号 PART NO.	A25406-nAWD <th>版 本 REV.</th> <td>A</td>	版 本 REV.	A
X.±0.25	X.°±2°	审 核 Audit	钱岳生 2022. 09. 17	品 名 TITLE	5264定位弯针 WAFER DIP TYPE	页 次 SHEET	1/1
.X.±0.25	.X.°±1°	核 准 Approved	张 名 2022. 09. 18	客 户 料 号 CUTL. NO.			
.XX±0.15	.XX°±0.5°						
.XXX±0.10	.XXX°±0.5°	单 位 Units	mm	比 例 SCALE	7	Yueqing Hongyi Electronics Co., Ltd	

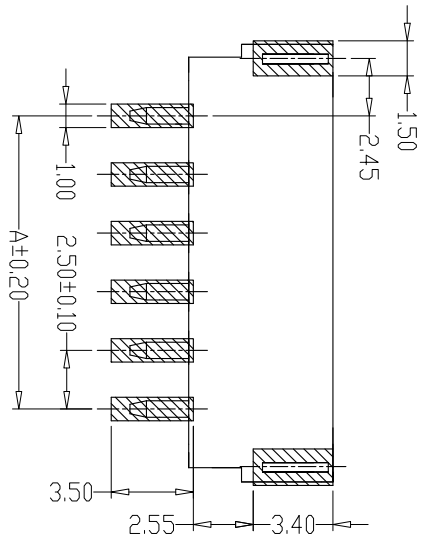
乐清市宏一电子有限公司

YueQing HongYi Electronics Co., Ltd

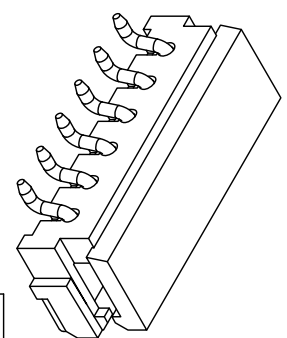
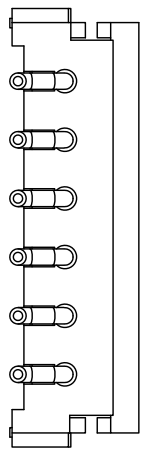
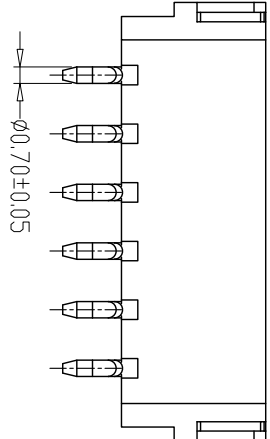
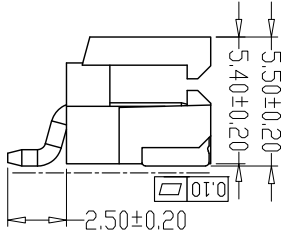
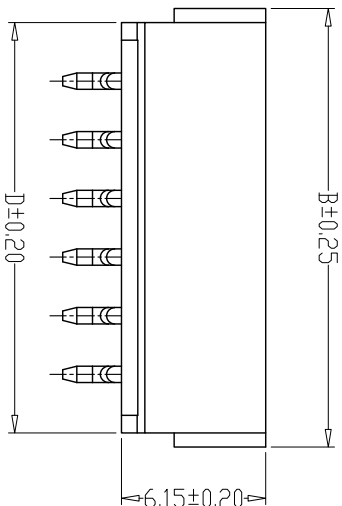
版本 REV.	日期 DATE	ECN NO.	变更内容 DESCRIPTION	制图 DRAWN



- SPECIFICATIONS
- Current Rating: 3A AC, DC
 - Voltage Rating: 250V AC, DC
 - Temperature Range: -25°C~+85°C
 - Contact Resistance: 20mΩ Max
 - Insulation Resistance: 1000MΩ Min
 - Withstanding Voltage: 1000V AC/minute
 - Material: Wafer PA6T, UL94V-0
- PIN Brass Tin-plated
Solder pad Brass Tin-plated



PCB LAYOUT



PIN	尺寸 (mm)			
	A	B	C	D
-02AWB	2.50	8.65	6.20	7.50
-03AWB	5.00	11.15	8.70	10.00
-04AWB	7.50	13.65	11.20	12.50
-05AWB	10.00	16.15	13.70	15.00
-06AWB	12.50	18.65	16.20	17.50
-07AWB	15.00	21.15	18.70	20.00
-08AWB	17.50	23.65	21.20	22.50
-09AWB	20.00	26.15	23.70	25.00
-10AWB	22.50	28.65	26.20	27.50
-11AWB	25.00	31.15	28.70	30.00
-12AWB	27.50	33.65	31.20	32.50
-13AWB	30.00	36.15	33.70	35.00
-14AWB	32.50	38.65	36.20	37.50
-15AWB	35.00	41.15	38.70	40.00
-16AWB	37.50	43.65	41.20	42.50

GENERAL TOLERANCE		制图 Mapping	张迎春 2022. 09. 17	料号 PART NO.	A25406-nAWB	版本 REV.	A
X±0.25	X°±2°	审核 Audit	钱岳生 2022. 09. 17	品名 TITLE	5264贴片 WAFER SMT TYPE	页次 SHEET	1/1
X±0.25	X°±1°	核准 Approved	张名 2022. 09. 18	客户料号 CSTM. NO.			
X±0.15	X°±0.5°	单位 Units	mm	比例 SCALE			
X±0.10	X°±0.5°	比例 SCALE	7	8	Yueqing Hongyi Electronics Co., Ltd		