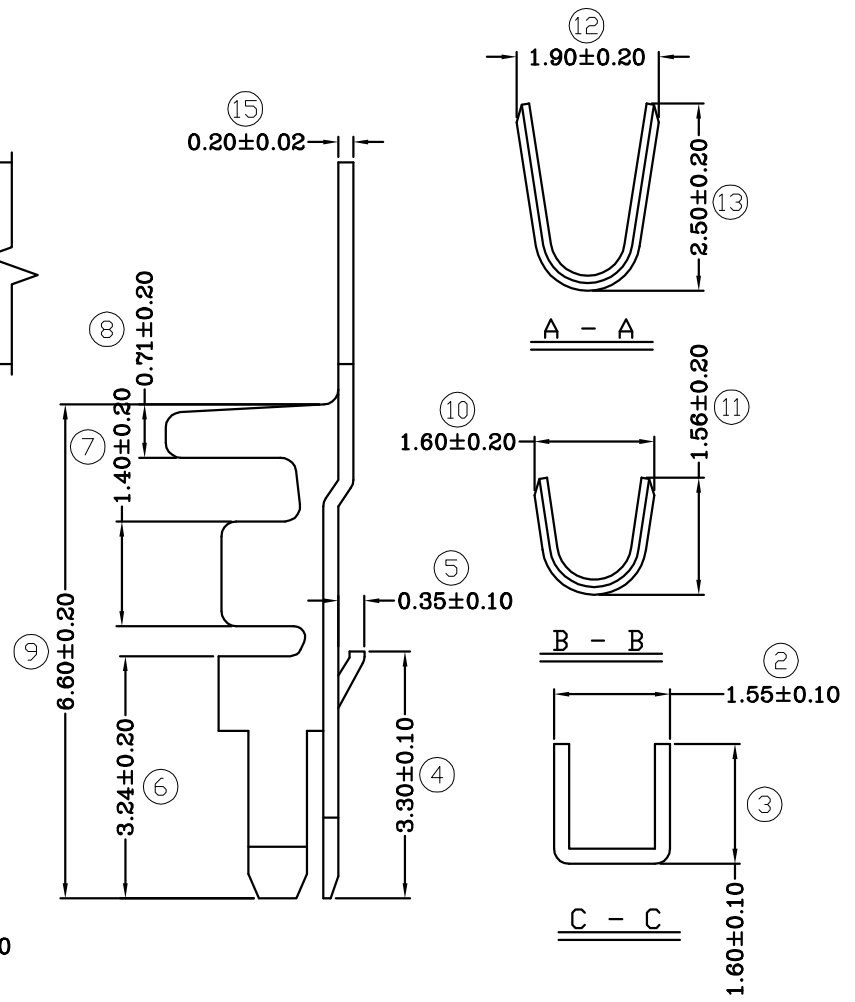
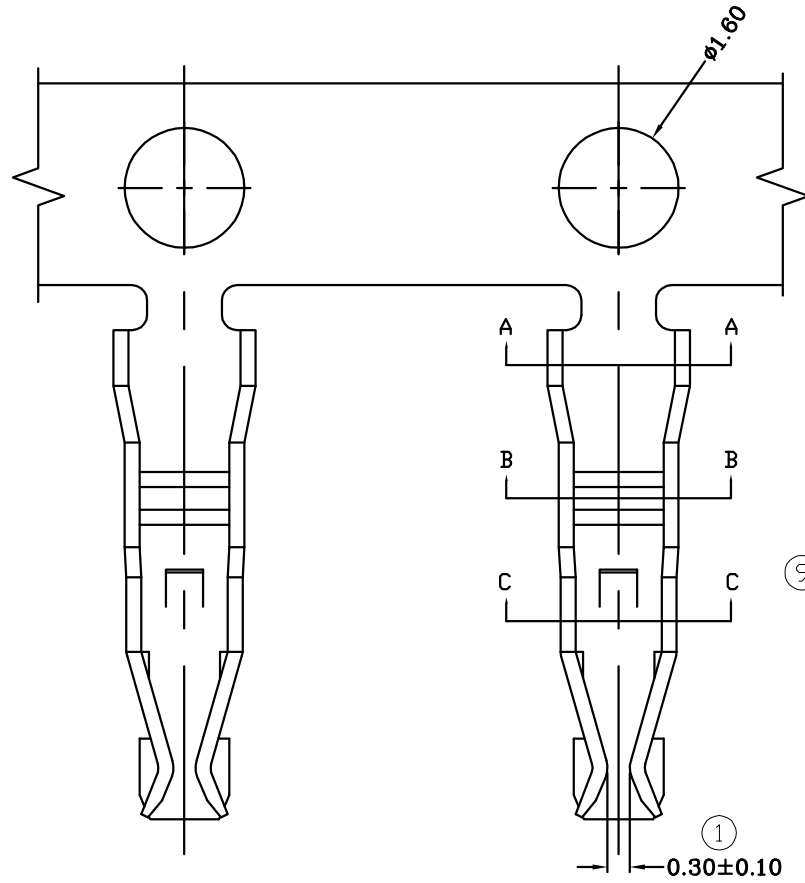



| 修订<br>REV | 标记<br>MARK | 修改摘要<br>REVISION DESCRIPTION | 签名<br>SIGNATURE | 日期<br>DATE |
|-----------|------------|------------------------------|-----------------|------------|
| AO        |            | NEW RELEASE                  | WANG            | 2012-03-10 |




产品要求:

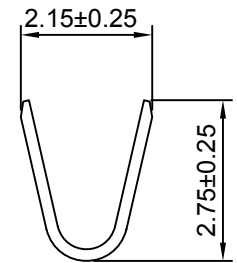
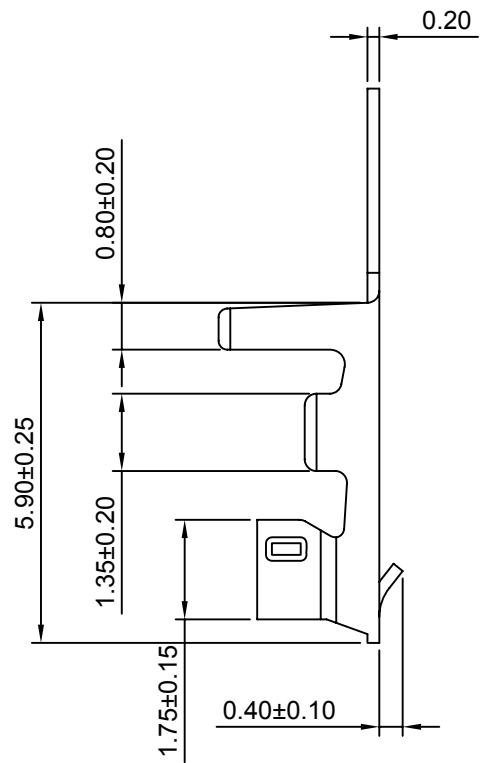
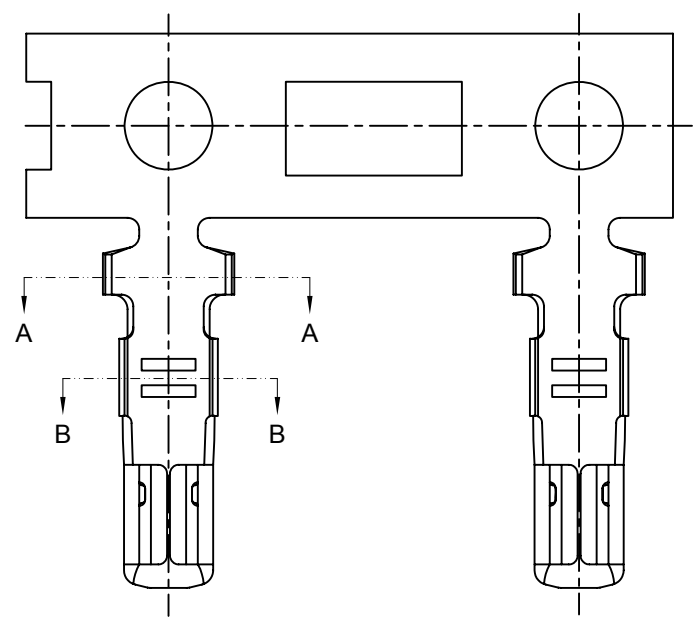
- 1、材质：磷铜C5191，材厚 $T=0.20 \pm 0.02\text{mm}$ ;
- 2、电镀：先冲后镀，镍底全锡。



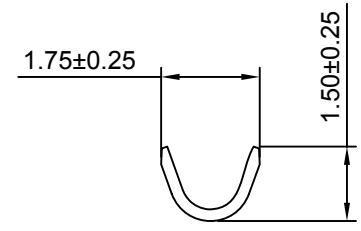
**深圳市华德共创科技有限公司**  
 Shenzhen Huade co-create Technology Co.,LTD  
 TEL : 0755-27129737 FAX : 0755-29940187

| -TOLERANCES-<br>UNLESS OTHERWISE SPECIFIED<br>公差参数表 |            |        |               |   |      | TITLE: 2.00mm Pitch<br>产品名称: Crimp Terminal |       |      |             |
|---|------------|--------|---------------|---|------|---|-------|------|-------------|
| X.X   | $\pm 0.30$ | X.X°   | $\pm 3^\circ$ | APPD:<br>核准:  | XIE  | PART NO:<br>产品编号: HDGC2012-T                |       |      |             |
| X.XX  | $\pm 0.30$ | X.XX°  | $\pm 2^\circ$ | CHECK:<br>校对:   | WANG | DATE  | SCALE | UNIT | CODE NUMBER |
| X.XXX   | $\pm 0.10$ | X.XXX° | $\pm 1^\circ$ | DRAW:<br>绘图:  | WANG | 2012-03-10                                  | 8:1   | mm   | A008        |

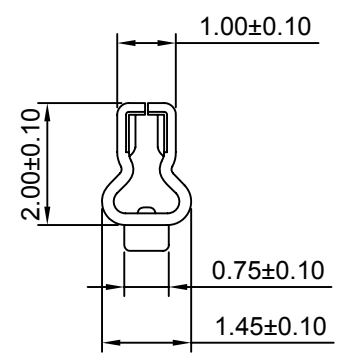
| 修订<br>REV | 标记<br>MARK | 修改摘要<br>REVISION DESCRIPTION | 签名<br>SIGNATURE | 日期<br>DATE |
|-----------|------------|------------------------------|-----------------|------------|
| A0        |            | NEW RELEASE                  | WANG            | 2014-06-27 |
|           |            |                              |                 |            |



SEC:A-A



SEC:B-B



Ordering information & Specifications

Unit:mm

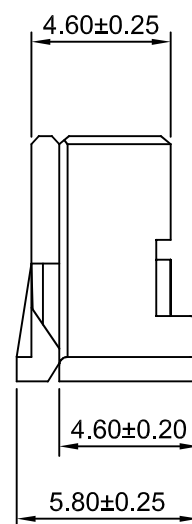
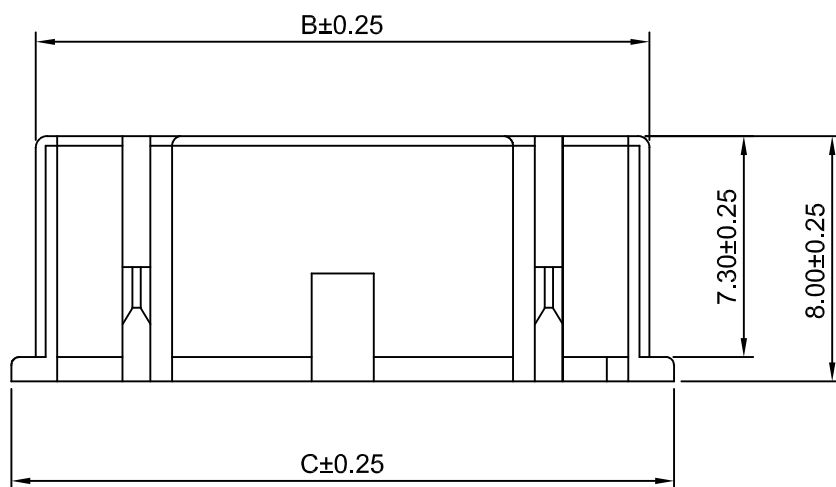
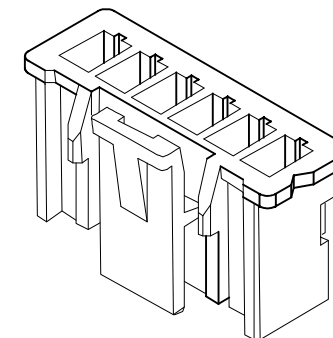
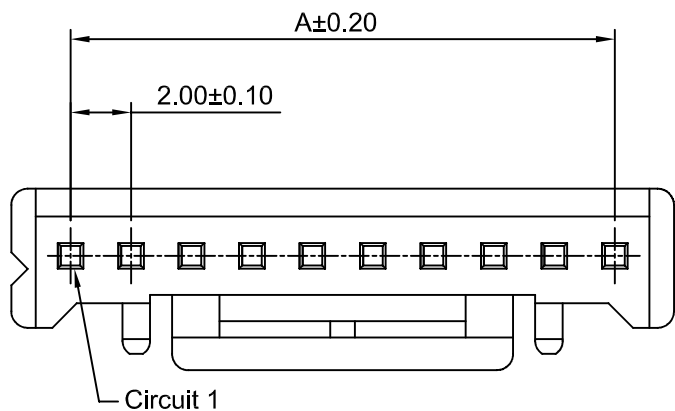
| Part No       | Wire Range | Insulation O.D. | Material        | Finish           | Qty/reel   |
|---------------|------------|-----------------|-----------------|------------------|------------|
| HDGC2012-TP-D | AWG#24-#30 | 1.50mm(max)     | Phosphor Bronze | Tin over Nickel  | 10,000 PCS |
| HDGC2012-GP-D | AWG#24-#30 | 1.50mm(max)     | Phosphor Bronze | Gold over Nickel | 10,000 PCS |

Optional Gold plating available but MOQ requested

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|   |       |        |     |               |      |   |       |      |             |
|---|-------|--------|-----|---------------|------|---|-------|------|-------------|
| -TOLERANCES-<br>UNLESS OTHERWISE SPECIFIED<br>公差参数表 |       |        |     |               |      | TITLE: 2.00mm Pitch<br>产品名称: Crimp Terminal |       |      |             |
| X.X   | ±0.30 | X.X°   | ±3° | APPD:<br>核准:  | XIE  | PART NO:<br>产品编号: HDGC2012-T-D              |       |      |             |
| X.XX  | ±0.30 | X.XX°  | ±2° | CHECK:<br>校对: | WANG | DATE  | SCALE | UNIT | CODE NUMBER |
| X.XXX   | ±0.10 | X.XXX° | ±1° | DRAW:<br>绘图:  | WANG | 2014-06-27                                  | 8:1   | mm   | A008        |

| 修订<br>REV | 标记<br>MARK | 修改摘要<br>REVISION DESCRIPTION | 签名<br>SIGNATURE | 日期<br>DATE |
|-----------|------------|------------------------------|-----------------|------------|
| AO        |            | NEW RELEASE                  | WANG            | 2012-12-27 |



Ordering Information & Dimensions

| Circuits | Dimensions(mm) |       |       | Circuits | Dimensions(mm) |       |       |
|----------|----------------|-------|-------|----------|----------------|-------|-------|
|          | A              | B     | C     |          | A              | B     | C     |
| 2P       | 2.00           | 4.30  | 6.00  | 10P      | 18.00          | 20.30 | 22.00 |
| 3P       | 4.00           | 6.30  | 8.00  | 11P      | 20.00          | 22.30 | 24.00 |
| 4P       | 6.00           | 8.30  | 10.00 | 12P      | 22.00          | 24.30 | 26.00 |
| 5P       | 8.00           | 10.30 | 12.00 | 13P      | 24.00          | 26.30 | 28.00 |
| 6P       | 10.00          | 12.30 | 14.00 | 14P      | 26.00          | 28.30 | 30.00 |
| 7P       | 12.00          | 14.30 | 16.00 | 15P      | 28.00          | 30.30 | 32.00 |
| 8P       | 14.00          | 16.30 | 18.00 | 16P      | 30.00          | 32.30 | 34.00 |
| 9P       | 16.00          | 18.30 | 20.00 |          |                |       |       |

**SPECIFICATIONS:**

Current Rating: 3A AC,DC  
Voltage Rating: 250V AC,DC  
Temperature Range: -25°C ~ +85°C  
Contact Resistance: 10mΩ Max.  
Insulation Resistance: 1000MΩ Min.  
Withstanding Voltage: 800V AC/minute  
Material: Nylon 66,UL94V-0(White)

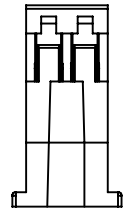


**深圳市华德共创科技有限公司**

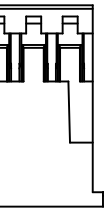
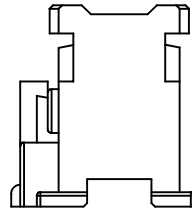
Shenzhen Huade co-create Technology Co.,LTD  
TEL : 0755-27129737 FAX : 0755-29940187

| -TOLERANCES-<br>UNLESS OTHERWISE SPECIFIED<br>公差参数表 |       |        |     |               |      | TITLE:<br>产品名称: 2.00mm Pitch Housing |       |      |             |
|---|-------|--------|-----|---------------|------|--------------------------------------|-------|------|-------------|
| X.X   | ±0.30 | X.X°   | ±3° | APPD:<br>核准:  | XIE  | PART NO:<br>产品编号: HDGC2012H-XP       |       |      |             |
| X.XX  | ±0.30 | X.XX°  | ±2° | CHECK:<br>校对: | WANG | DATE                                 | SCALE | UNIT | CODE NUMBER |
| X.XXX   | ±0.10 | X.XXX° | ±1° | DRAW:<br>绘图:  | WANG | 2012-12-27                           | 4:1   | mm   | A008        |

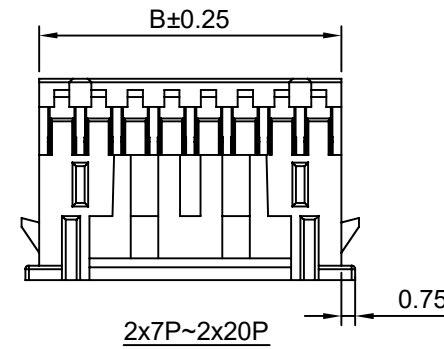
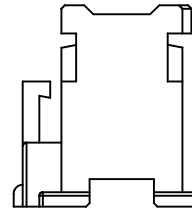
| 修订<br>REV | 标记<br>MARK | 修改摘要<br>REVISION DESCRIPTION | 签名<br>SIGNATURE | 日期<br>DATE |
|-----------|------------|------------------------------|-----------------|------------|
| AO        |            | NEW RELEASE                  | WANG            | 2014-06-30 |



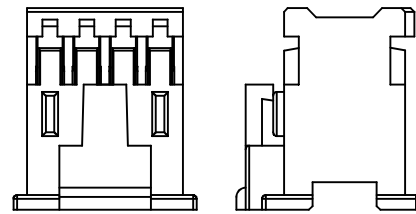
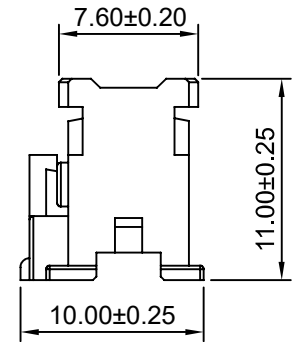
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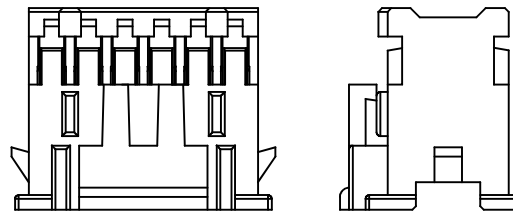
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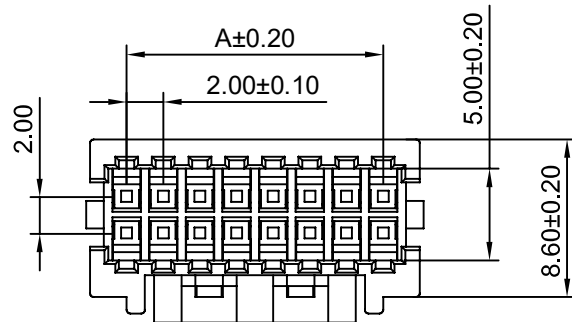
2x7P~2x20P



2x4P



2x5P~2x6P



Ordering Information & Dimensions

| Circuits | Dimensions(mm) |       | Circuits | Dimensions(mm) |       |
|----------|----------------|-------|----------|----------------|-------|
|          | A              | B     |          | A              | B     |
| 2x2P     | 2.00           | 5.00  | 2x12P    | 22.00          | 24.50 |
| 2x3P     | 4.00           | 7.00  | 2x13P    | 24.00          | 26.50 |
| 2x4P     | 6.00           | 9.00  | 2x14P    | 26.00          | 28.50 |
| 2x5P     | 8.00           | 10.50 | 2x15P    | 28.00          | 30.50 |
| 2x6P     | 10.00          | 12.50 | 2x16P    | 30.00          | 32.50 |
| 2x7P     | 12.00          | 14.50 | 2x17P    | 32.00          | 34.50 |
| 2x8P     | 14.00          | 16.50 | 2x18P    | 34.00          | 36.50 |
| 2x9P     | 16.00          | 18.50 | 2x19P    | 36.00          | 38.50 |
| 2x10P    | 18.00          | 20.50 | 2x20P    | 38.00          | 40.50 |
| 2x11P    | 20.00          | 22.50 |          |                |       |

SPECIFICATIONS:

Current Rating: 3A AC,DC  
Voltage Rating: 250V AC,DC  
Temperature Range: -25°C ~ +85°C  
Contact Resistance: 10mΩ Max.  
Insulation Resistance: 1000MΩ Min.  
Withstanding Voltage: 800V AC/minute  
Material: Nylon 66,UL94V-0 (White)

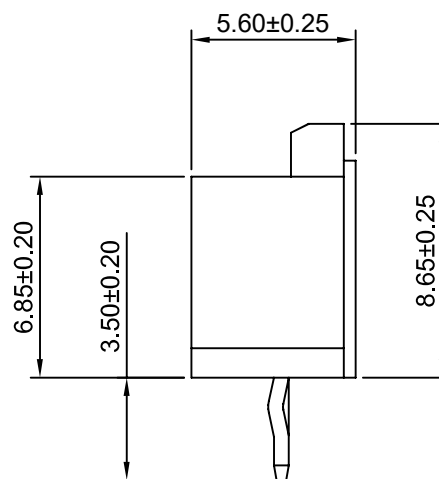
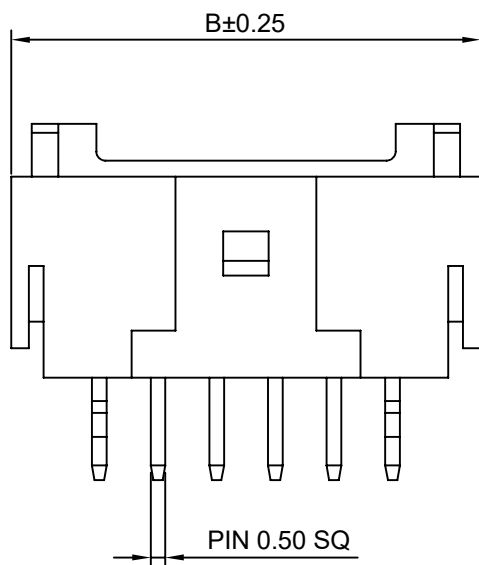
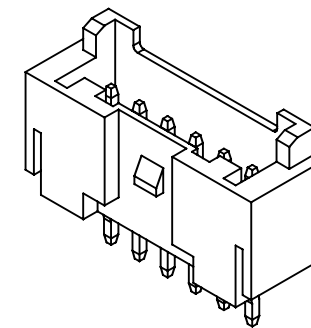
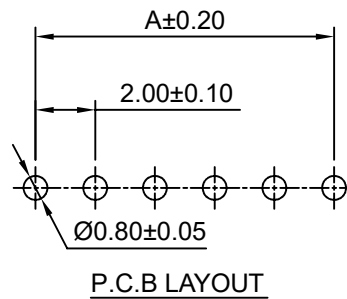
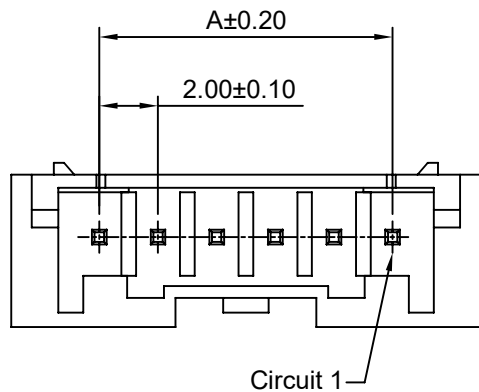


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| -TOLERANCES-<br>UNLESS OTHERWISE SPECIFIED<br>公差参数表 |       |        |     |               |      | TITLE:<br>产品名称: 2.00mm Pitch Housing |       |      |             |
|---|-------|--------|-----|---------------|------|--------------------------------------|-------|------|-------------|
| X.X   | ±0.30 | X.X°   | ±3° | APPD:<br>核准:  | XIE  | PART NO:<br>产品编号: HDGC2012HD-2xXP    |       |      |             |
| X.XX  | ±0.30 | X.XX°  | ±2° | CHECK:<br>校对: | WANG | DATE                                 | SCALE | UNIT | CODE NUMBER |
| X.XXX   | ±0.10 | X.XXX° | ±1° | DRAW:<br>绘图:  | WANG | 2014-06-30                           | 2.5:1 | mm   | A008        |

| 修订<br>REV | 标记<br>MARK | 修改摘要<br>REVISION DESCRIPTION | 签名<br>SIGNATURE | 日期<br>DATE |
|-----------|------------|------------------------------|-----------------|------------|
| AO        |            | NEW RELEASE                  | WANG            | 2014-06-30 |



Ordering Information & Dimensions

| Circuits | Dimensions(mm) |       | Circuits | Dimensions(mm) |       |
|----------|----------------|-------|----------|----------------|-------|
|          | A              | B     |          | A              | B     |
| 2P       | 2.00           | 8.00  | 10P      | 18.00          | 24.00 |
| 3P       | 4.00           | 10.00 | 11P      | 20.00          | 26.00 |
| 4P       | 6.00           | 12.00 | 12P      | 22.00          | 28.00 |
| 5P       | 8.00           | 14.00 | 13P      | 24.00          | 30.00 |
| 6P       | 10.00          | 16.00 | 14P      | 26.00          | 32.00 |
| 7P       | 12.00          | 18.00 | 15P      | 28.00          | 34.00 |
| 8P       | 14.00          | 20.00 | 16P      | 30.00          | 36.00 |
| 9P       | 16.00          | 22.00 |          |                |       |

SPECIFICATIONS:

Current Rating: 3A AC,DC  
Voltage Rating: 250V AC,DC  
Temperature Range: -25°C ~ +85°C  
Contact Resistance: 10mΩ Max.  
Insulation Resistance: 1000MΩ Min.  
Withstanding Voltage: 800V AC/minute  
Pin Material: Brass/Tin over Nickel  
Material: Nylon 6T, UL94V-0(Ivory)

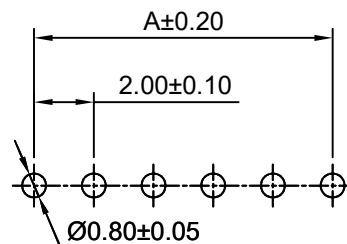
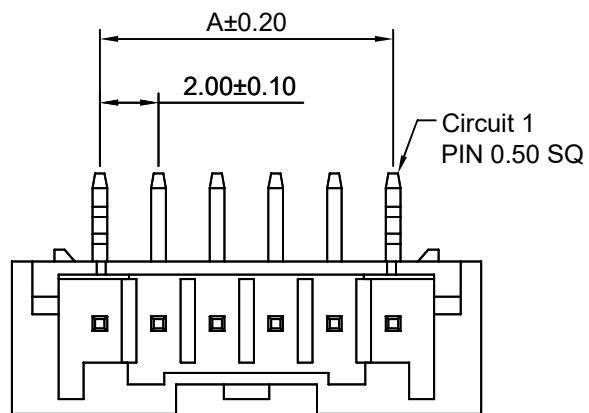


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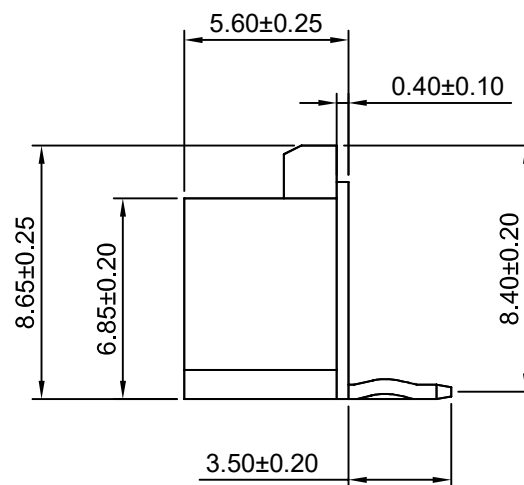
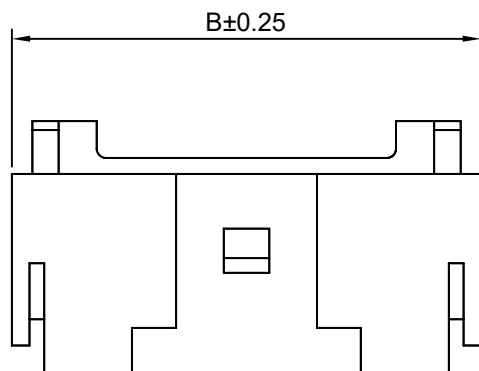
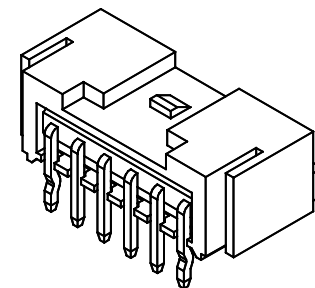
Shenzhen Huade co-create Technology Co.,LTD  
TEL : 0755-27129737 FAX : 0755-29940187

| -TOLERANCES-<br>UNLESS OTHERWISE SPECIFIED<br>公差参数表 |       |        |     |               |      | TITLE: 2.00mm Pitch<br>产品名称: 180° Wafer |       |      |             |
|---|-------|--------|-----|---------------|------|---|-------|------|-------------|
| X.X   | ±0.30 | X.X°   | ±3° | APPD:<br>核准:  | XIE  | PART NO:<br>产品编号: HDGC2012WV-XP         |       |      |             |
| X.XX  | ±0.30 | X.XX°  | ±2° | CHECK:<br>校对: | WANG | DATE                                    | SCALE | UNIT | CODE NUMBER |
| X.XXX   | ±0.10 | X.XXX° | ±1° | DRAW:<br>绘图:  | WANG | 2014-06-30                              | 4:1   | mm   | A008        |

| 修订<br>REV | 标记<br>MARK | 修改摘要<br>REVISION DESCRIPTION | 签名<br>SIGNATURE | 日期<br>DATE |
|-----------|------------|------------------------------|-----------------|------------|
| AO        |            | NEW RELEASE                  | WANG            | 2014-06-30 |



P.C.B LAYOUT



Ordering Information & Dimensions

| Circuits | Dimensions(mm) |       | Circuits | Dimensions(mm) |       |
|----------|----------------|-------|----------|----------------|-------|
|          | A              | B     |          | A              | B     |
| 2P       | 2.00           | 8.00  | 10P      | 18.00          | 24.00 |
| 3P       | 4.00           | 10.00 | 11P      | 20.00          | 26.00 |
| 4P       | 6.00           | 12.00 | 12P      | 22.00          | 28.00 |
| 5P       | 8.00           | 14.00 | 13P      | 24.00          | 30.00 |
| 6P       | 10.00          | 16.00 | 14P      | 26.00          | 32.00 |
| 7P       | 12.00          | 18.00 | 15P      | 28.00          | 34.00 |
| 8P       | 14.00          | 20.00 | 16P      | 30.00          | 36.00 |
| 9P       | 16.00          | 22.00 |          |                |       |

**SPECIFICATIONS:**

Current Rating: 3A AC,DC  
Voltage Rating: 250V AC,DC  
Temperature Range: -25°C ~ +85°C  
Contact Resistance: 10mΩ Max.  
Insulation Resistance: 1000MΩ Min.  
Withstanding Voltage: 800V AC/minute  
Pin Material: Brass/Tin over Nickel  
Material: Nylon 6T, UL94V-0(Ivory)



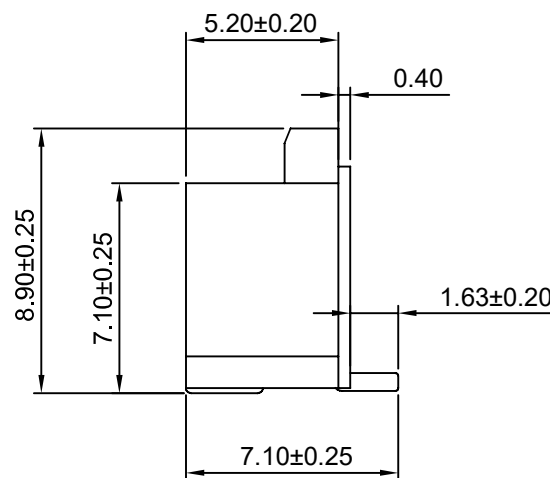
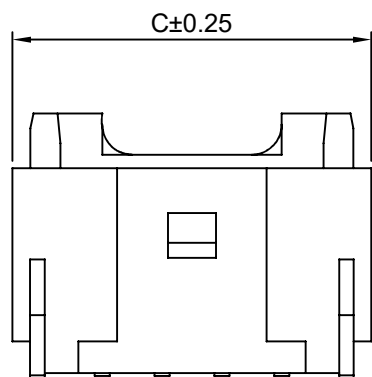
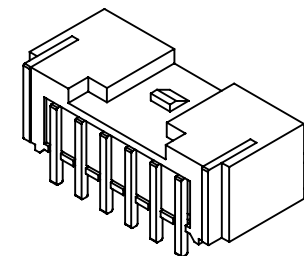
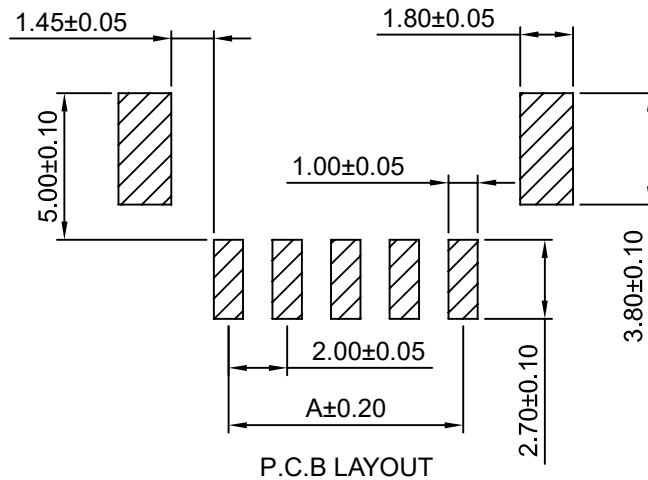
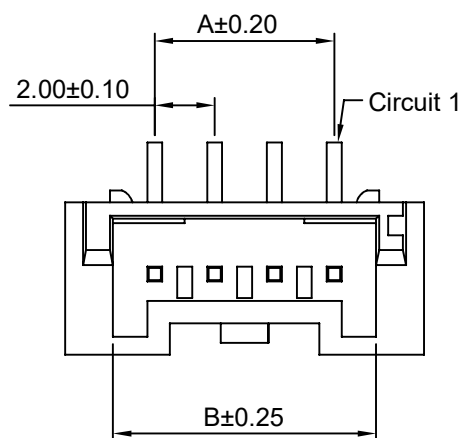
深圳市华德共创科技有限公司

Shenzhen Huade co-create Technology Co.,LTD

TEL : 0755-27129737 FAX : 0755-29940187

| -TOLERANCES-<br>UNLESS OTHERWISE SPECIFIED<br>公差参数表 |       |        |     |               |      | TITLE:<br>产品名称: 2.00mm Pitch<br>90° Wafer |       |      |             |
|---|-------|--------|-----|---------------|------|---|-------|------|-------------|
| X.X   | ±0.30 | X.X°   | ±3° | APPD:<br>核准:  | XIE  | PART NO:<br>产品编号: HDGC2012WR-XP           |       |      |             |
| X.XX  | ±0.30 | X.XX°  | ±2° | CHECK:<br>校对: | WANG | DATE                                      | SCALE | UNIT | CODE NUMBER |
| X.XXX   | ±0.10 | X.XXX° | ±1° | DRAW:<br>绘图:  | WANG | 2014-06-30                                | 4:1   | mm   | A008        |

| 修订<br>REV | 标记<br>MARK | 修改摘要<br>REVISION DESCRIPTION | 签名<br>SIGNATURE | 日期<br>DATE |
|-----------|------------|------------------------------|-----------------|------------|
| AO        |            | NEW RELEASE                  | WANG            | 2014-06-30 |



Ordering Information & Dimensions

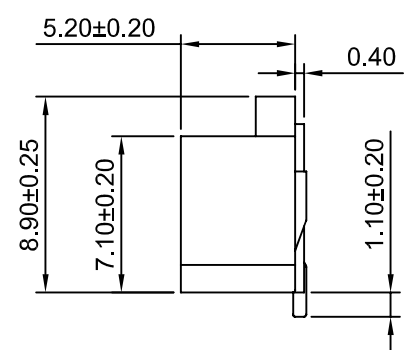
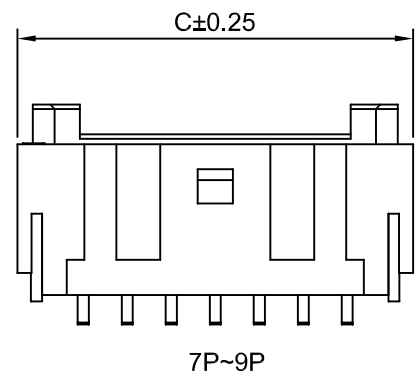
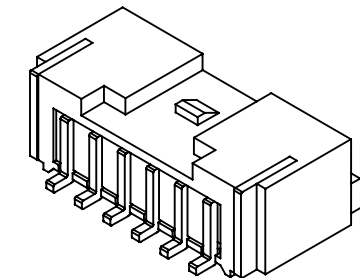
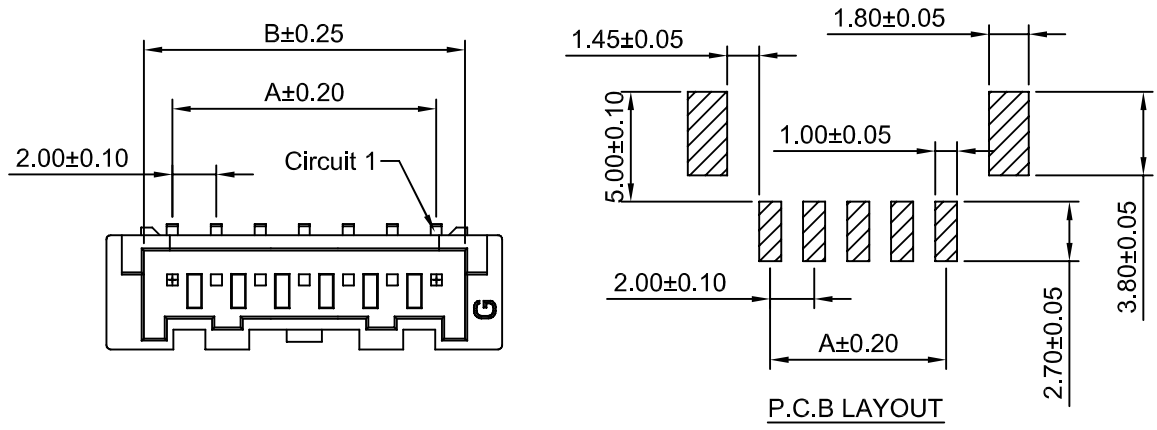
| Circuits | Dimensions(mm) |       |       | Circuits | Dimensions(mm) |       |       |
|----------|----------------|-------|-------|----------|----------------|-------|-------|
|          | A              | B     | C     |          | A              | B     | C     |
| 2P       | 2.00           | 4.50  | 8.00  | 10P      | 18.00          | 20.50 | 24.00 |
| 3P       | 4.00           | 6.50  | 10.00 | 11P      | 20.00          | 22.50 | 26.00 |
| 4P       | 6.00           | 8.50  | 12.00 | 12P      | 22.00          | 24.50 | 28.00 |
| 5P       | 8.00           | 10.50 | 14.00 | 13P      | 24.00          | 26.50 | 30.00 |
| 6P       | 10.00          | 12.50 | 16.00 | 14P      | 26.00          | 28.50 | 32.00 |
| 7P       | 12.00          | 14.50 | 18.00 | 15P      | 28.00          | 30.50 | 34.00 |
| 8P       | 14.00          | 16.50 | 20.00 | 16P      | 30.00          | 32.50 | 36.00 |
| 9P       | 16.00          | 18.50 | 22.00 |          |                |       |       |

**SPECIFICATIONS:**  
 Current Rating: 3A AC,DC  
 Voltage Rating: 250V AC,DC  
 Temperature Range: -25°C ~ +85°C  
 Contact Resistance: 10mΩ Max.  
 Insulation Resistance: 1000MΩ Min.  
 Withstanding Voltage: 800V AC/minute  
 Pin Material: Brass/Tin over Nickel  
 Material: Nylon 6T, UL94V-0(Ivory)

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 Shenzhen Huade co-create Technology Co.,LTD  
 TEL : 0755-27129737 FAX : 0755-29940187

|   |       |        |     |               |  |            |       |      |             |
|---|-------|--------|-----|---------------|--|------------|-------|------|-------------|
| -TOLERANCES-<br>UNLESS OTHERWISE SPECIFIED<br>公差参数表 |       |        |     |               | TITLE:<br>产品名称: 2.00mm Pitch<br>180° Wafer |            |       |      |             |
| X.X   | ±0.30 | X.X°   | ±3° | APPD:<br>核准:  | XIE  |            |       |      |             |
| X.XX  | ±0.30 | X.XX°  | ±2° | CHECK:<br>校对: | WANG                                       | DATE       | SCALE | UNIT | CODE NUMBER |
| X.XXX   | ±0.10 | X.XXX° | ±1° | DRAW:<br>绘图:  | WANG                                       | 2014-06-30 | 4:1   | mm   | A008        |

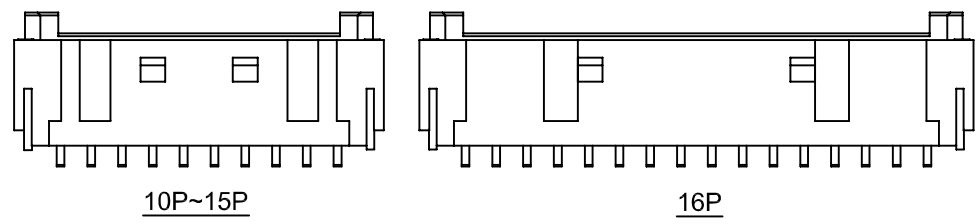
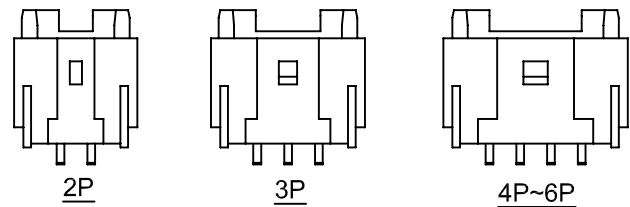
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|-----------|------------|------------------------------|-----------------|------------|
| AO        |            | NEW RELEASE                  | WANG            | 2014-06-30 |



**SPECIFICATIONS:**  
 Current Rating: 3A AC,DC  
 Voltage Rating: 250V AC,DC  
 Temperature Range: -25°C ~ +85°C  
 Contact Resistance: 10mΩ Max.  
 Insulation Resistance: 1000MΩ Min.  
 Withstanding Voltage: 800V AC/minute  
 Pin Material: Brass/Tin over Nickel  
 Material: Nylon 6T, UL94V-0(Ivory)

**Ordering Information & Dimensions**

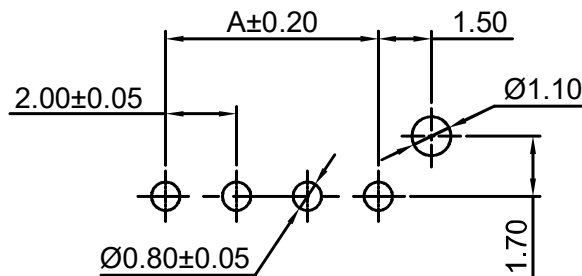
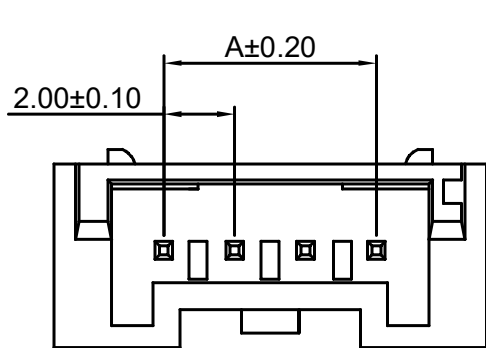
| Circuits | Dimensions(mm) |       |       | Circuits | Dimensions(mm) |       |       |
|----------|----------------|-------|-------|----------|----------------|-------|-------|
|          | A              | B     | C     |          | A              | B     | C     |
| 2P       | 2.00           | 4.60  | 8.00  | 10P      | 18.00          | 20.60 | 24.00 |
| 3P       | 4.00           | 6.60  | 10.00 | 11P      | 20.00          | 22.60 | 26.00 |
| 4P       | 6.00           | 8.60  | 12.00 | 12P      | 22.00          | 24.60 | 28.00 |
| 5P       | 8.00           | 10.60 | 14.00 | 13P      | 24.00          | 26.60 | 30.00 |
| 6P       | 10.00          | 12.60 | 16.00 | 14P      | 26.00          | 28.60 | 32.00 |
| 7P       | 12.00          | 14.60 | 18.00 | 15P      | 28.00          | 30.60 | 34.00 |
| 8P       | 14.00          | 16.60 | 20.00 | 16P      | 30.00          | 32.60 | 36.00 |
| 9P       | 16.00          | 18.60 | 22.00 |          |                |       |       |



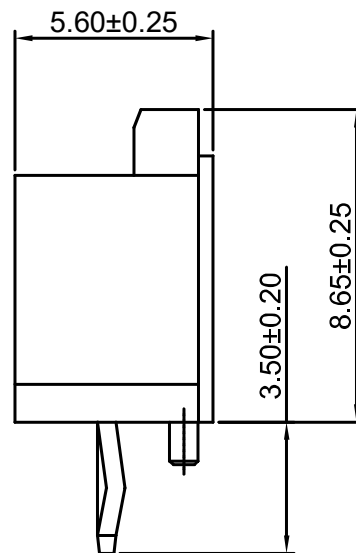
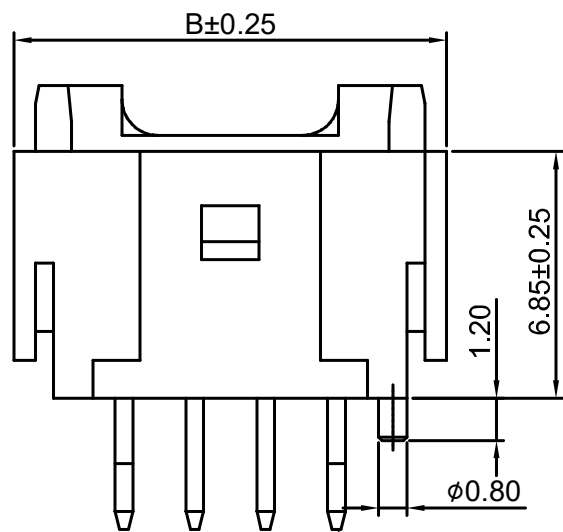
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 Shenzhen Huade co-create Technology Co.,LTD  
 TEL : 0755-27129737 FAX : 0755-29940187

|   |       |        |     |  |      |  |  |                   |                 |      |             |
|---|-------|--------|-----|--|------|--|--|-------------------|-----------------|------|-------------|
| -TOLERANCES-<br>UNLESS OTHERWISE SPECIFIED<br>公差参数表 |       |        |     | TITLE: 2.00mm Pitch<br>产品名称: 90° Wafer |      |  |  |                   |                 |      |             |
| X.X   | ±0.30 | X.X°   | ±3° | APPD:<br>核准:                           | XIE  |  |  | PART NO:<br>产品编号: | HDGC2012WR-S-XP |      |             |
| X.XX  | ±0.30 | X.XX°  | ±2° | CHECK:<br>校对:                          | WANG |  |  | DATE              | SCALE           | UNIT | CODE NUMBER |
| X.XXX   | ±0.10 | X.XXX° | ±1° | DRAW:<br>绘图:                           | WANG |  |  | 2014-06-30        | 3:1             | mm   | A008        |

| 修订<br>REV | 标记<br>MARK | 修改摘要<br>REVISION DESCRIPTION | 签名<br>SIGNATURE | 日期<br>DATE |
|-----------|------------|------------------------------|-----------------|------------|
| AO        |            | NEW RELEASE                  | WANG            | 2014-06-30 |



P.C.B LAYOUT



PIN 0.50 SQ  
Circuit 1

Ordering Information & Dimensions:

| PART NO. | Dimensions |       |
|----------|------------|-------|
|          | A          | B     |
| 2P       | 2.00       | 8.00  |
| 3P       | 4.00       | 10.00 |
| 4P       | 6.00       | 12.00 |
| 5P       | 8.00       | 14.00 |
| 6P       | 10.00      | 16.00 |
| 7P       | 12.00      | 18.00 |
| 8P       | 14.00      | 20.00 |
| 9P       | 16.00      | 22.00 |
| 10P      | 18.00      | 24.00 |
| 11P      | 20.00      | 26.00 |
| 12P      | 22.00      | 28.00 |
| 13P      | 24.00      | 30.00 |
| 14P      | 26.00      | 32.00 |
| 15P      | 28.00      | 34.00 |
| 16P      | 30.00      | 36.00 |

Unit: mm



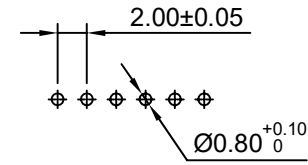
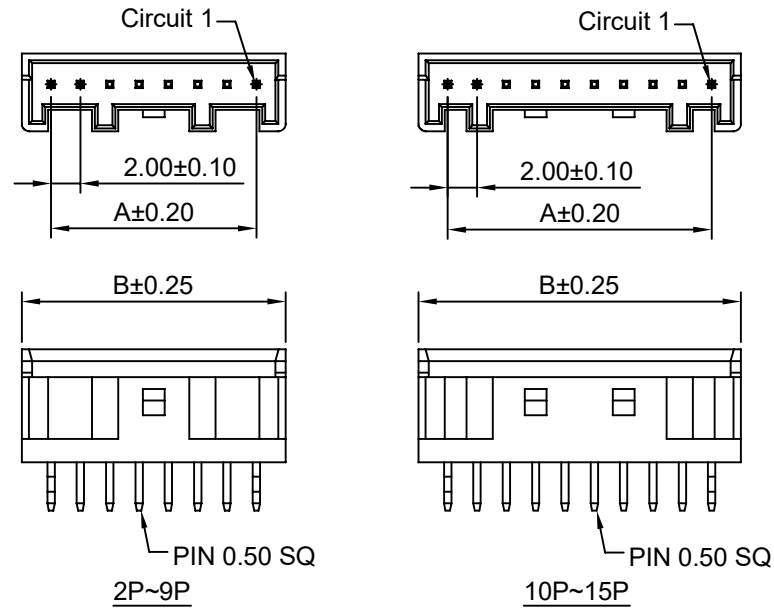
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Shenzhen Huade co-create Technology Co.,LTD

TEL : 0755-27129737 FAX : 0755-29940187

| -TOLERANCES-<br>UNLESS OTHERWISE SPECIFIED<br>公差参数表 |       |        |     |                |      | TITLE:<br>产品名称 : 2.00mm Pitch<br>180° Wafer |       |      |             |
|---|-------|--------|-----|----------------|------|---|-------|------|-------------|
| X.X   | ±0.30 | X.X°   | ±3° | APPD:<br>核准 :  | XIE  | PART NO:<br>产品编号 : HDGC2012WV-F-XP          |       |      |             |
| X.XX  | ±0.30 | X.XX°  | ±2° | CHECK:<br>校对 : | WANG | DATE  | SCALE | UNIT | CODE NUMBER |
| X.XXX   | ±0.10 | X.XXX° | ±1° | DRAW:<br>绘图 :  | WANG | 2014-06-30                                  | 4:1   | mm   | A008        |

| 修订<br>REV | 标记<br>MARK | 修改摘要<br>REVISION DESCRIPTION | 签名<br>SIGNATURE | 日期<br>DATE |
|-----------|------------|------------------------------|-----------------|------------|
| AO        |            | NEW RELEASE                  | WANG            | 2014-06-30 |



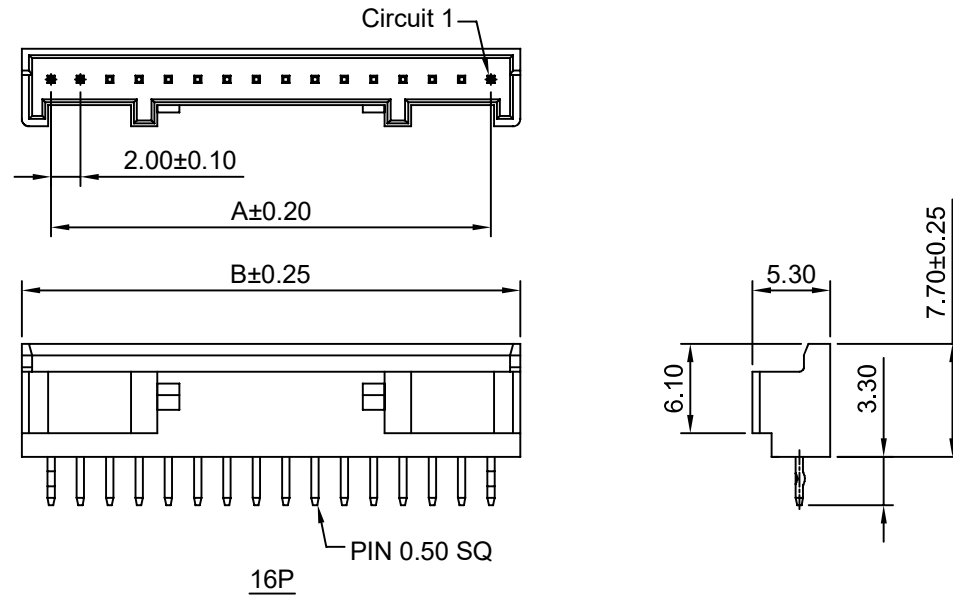
PCB LAYOUT

**SPECIFICATIONS:**

Current Rating: 3A AC,DC  
Voltage Rating: 250V AC,DC  
Temperature Range: -25°C ~ +85°C  
Contact Resistance: 10mΩ Max.  
Insulation Resistance: 1000MΩ Min.  
Withstanding Voltage: 800V AC/minute  
Pin Material: Brass/Tin over Nickel  
Material: Nylon 66,UL94V-0(White)

**Ordering Information & Dimensions**

| Circuits | Dimensions(mm) |       | Circuits | Dimensions(mm) |       |
|----------|----------------|-------|----------|----------------|-------|
|          | A              | B     |          | A              | B     |
| 2P       | 2.00           | 6.00  | 10P      | 18.00          | 22.00 |
| 3P       | 4.00           | 8.00  | 11P      | 20.00          | 24.00 |
| 4P       | 6.00           | 10.00 | 12P      | 22.00          | 26.00 |
| 5P       | 8.00           | 12.00 | 13P      | 24.00          | 28.00 |
| 6P       | 10.00          | 14.00 | 14P      | 26.00          | 30.00 |
| 7P       | 12.00          | 16.00 | 15P      | 28.00          | 32.00 |
| 8P       | 14.00          | 18.00 | 16P      | 30.00          | 34.00 |
| 9P       | 16.00          | 20.00 |          |                |       |

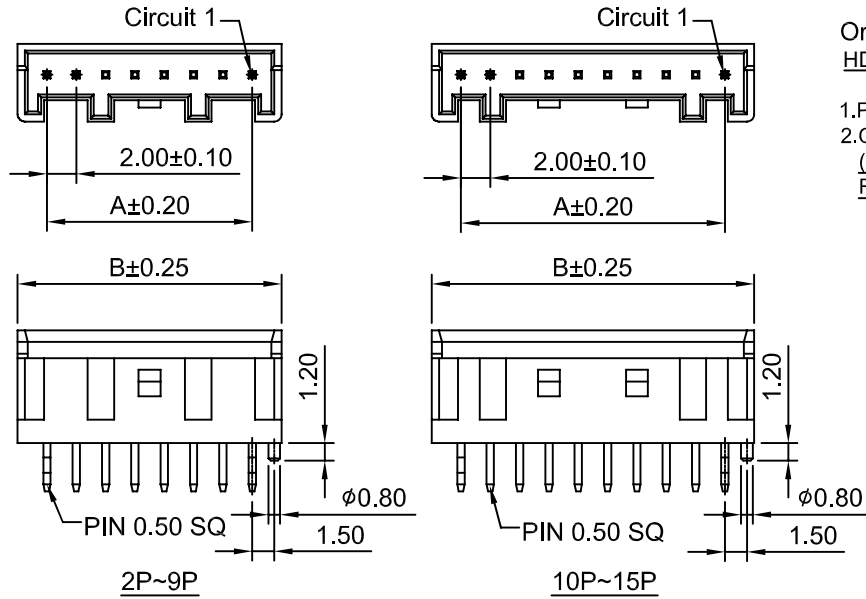


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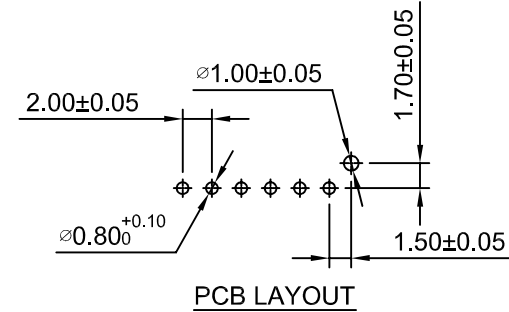
|   |       |        |     |               |      |  |       |      |             |
|---|-------|--------|-----|---------------|------|--|-------|------|-------------|
| -TOLERANCES-<br>UNLESS OTHERWISE SPECIFIED<br>公差参数表 |       |        |     |               |      | TITLE:<br>产品名称: 2.00mm Pitch<br>180° Wafer |       |      |             |
| X.X   | ±0.30 | X.X°   | ±3° | APPD:<br>核准:  | XIE  | PART NO:<br>产品编号: HDGC2012WVA-XP           |       |      |             |
| X.XX  | ±0.30 | X.XX°  | ±2° | CHECK:<br>校对: | WANG | DATE                                       | SCALE | UNIT | CODE NUMBER |
| X.XXX   | ±0.10 | X.XXX° | ±1° | DRAW:<br>绘图:  | WANG | 2014-06-30                                 | 2:1   | mm   | A008        |

| 修订<br>REV | 标记<br>MARK | 修改摘要<br>REVISION DESCRIPTION | 签名<br>SIGNATURE | 日期<br>DATE |
|-----------|------------|------------------------------|-----------------|------------|
| AO        |            | NEW RELEASE                  | WANG            | 2014-06-30 |



Ordering Information:  
 HDGC2012WVA-F-XP - \*\*  
 1 2

- Part No.
- Color:  
 (blank):White  
 RD:Red

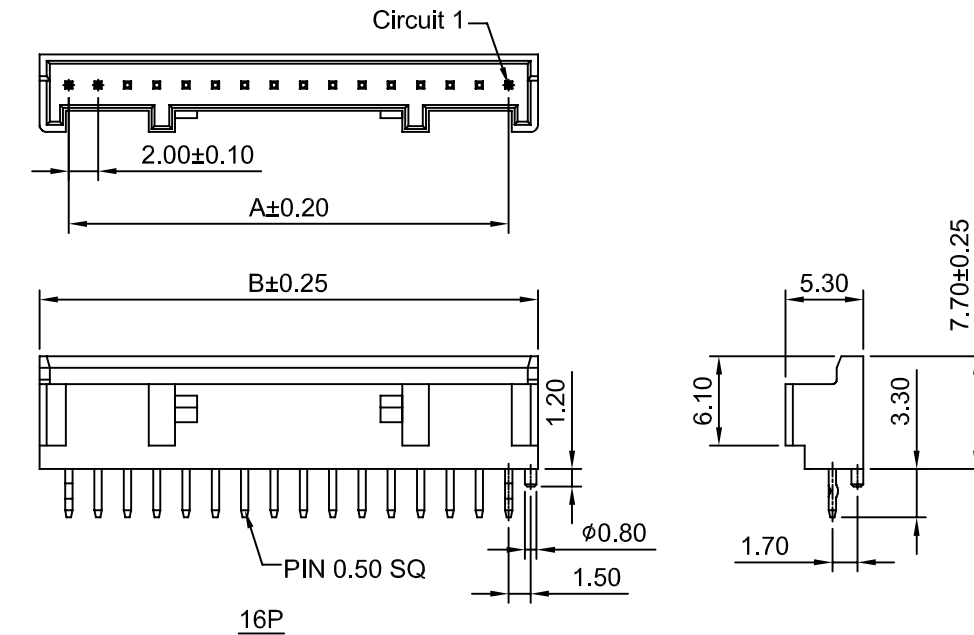


**SPECIFICATIONS:**

Current Rating: 3A AC,DC  
 Voltage Rating: 250V AC,DC  
 Temperature Range: -25°C ~ +85°C  
 Contact Resistance: 10mΩ Max.  
 Insulation Resistance: 1000MΩ Min.  
 Withstanding Voltage: 800V AC/minute  
 Pin Material: Brass/Tin over Nickel  
 Material: Nylon 66,UL94V-0(White)

Ordering Information & Dimensions

| Circuits | Dimensions(mm) |       | Circuits | Dimensions(mm) |       |
|----------|----------------|-------|----------|----------------|-------|
|          | A              | B     |          | A              | B     |
| 2P       | 2.00           | 6.00  | 10P      | 18.00          | 22.00 |
| 3P       | 4.00           | 8.00  | 11P      | 20.00          | 24.00 |
| 4P       | 6.00           | 10.00 | 12P      | 22.00          | 26.00 |
| 5P       | 8.00           | 12.00 | 13P      | 24.00          | 28.00 |
| 6P       | 10.00          | 14.00 | 14P      | 26.00          | 30.00 |
| 7P       | 12.00          | 16.00 | 15P      | 28.00          | 32.00 |
| 8P       | 14.00          | 18.00 | 16P      | 30.00          | 34.00 |
| 9P       | 16.00          | 20.00 |          |                |       |

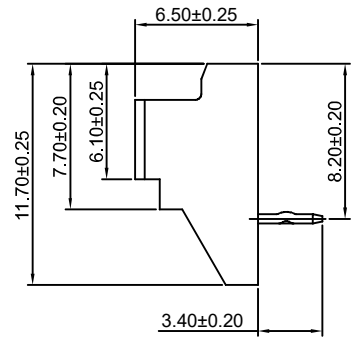
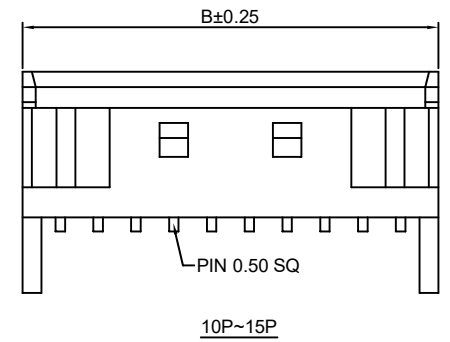
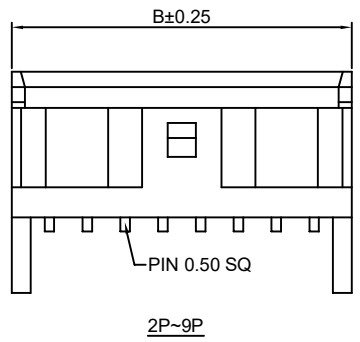
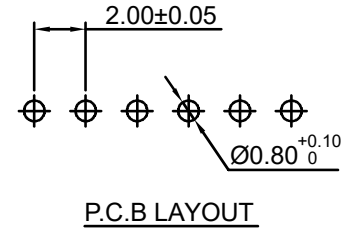
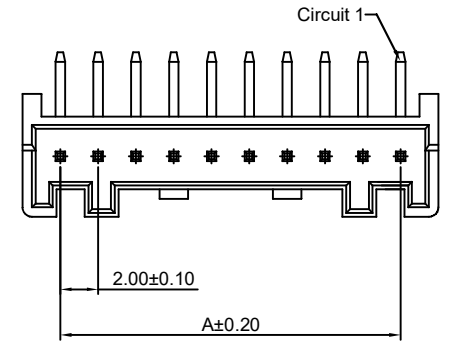
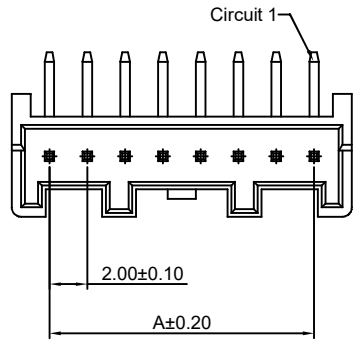


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 TEL : 0755-27129737 FAX : 0755-29940187

|   |       |        |     |               |      |  |       |      |             |
|---|-------|--------|-----|---------------|------|--|-------|------|-------------|
| -TOLERANCES-<br>UNLESS OTHERWISE SPECIFIED<br>公差参数表 |       |        |     |               |      | TITLE:<br>产品名称: 2.00mm Pitch<br>180° Wafer |       |      |             |
| X.X   | ±0.30 | X.X°   | ±3° | APPD:<br>核准:  | XIE  | PART NO:<br>产品编号: HDGC2012WVA-F-XP         |       |      |             |
| X.XX  | ±0.30 | X.XX°  | ±2° | CHECK:<br>校对: | WANG | DATE                                       | SCALE | UNIT | CODE NUMBER |
| X.XXX   | ±0.10 | X.XXX° | ±1° | DRAW:<br>绘图:  | WANG | 2014-06-30                                 | 2:1   | mm   | A008        |

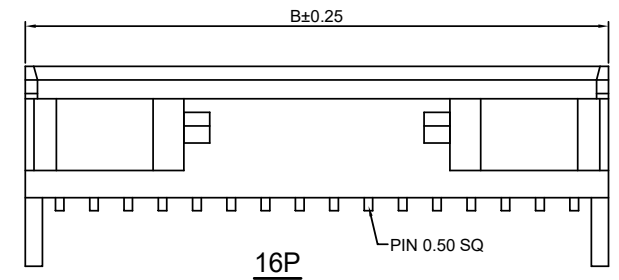
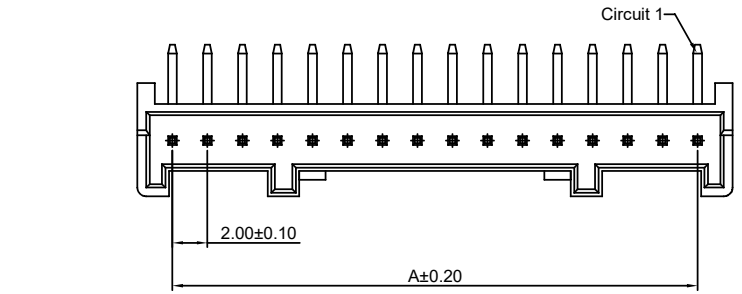
| 修订<br>REV | 标记<br>MARK | 修改摘要<br>REVISION DESCRIPTION | 签名<br>SIGNATURE | 日期<br>DATE |
|-----------|------------|------------------------------|-----------------|------------|
| AO        |            | NEW RELEASE                  | WANG            | 2014-06-30 |




Ordering Information & Dimensions:



| PART NO. | Dimensions |       |
|----------|------------|-------|
|          | A          | B     |
| 2P       | 2.00       | 6.00  |
| 3P       | 4.00       | 8.00  |
| 4P       | 6.00       | 10.00 |
| 5P       | 8.00       | 12.00 |
| 6P       | 10.00      | 14.00 |
| 7P       | 12.00      | 16.00 |
| 8P       | 14.00      | 18.00 |
| 9P       | 16.00      | 20.00 |
| 10P      | 18.00      | 22.00 |
| 11P      | 20.00      | 24.00 |
| 12P      | 22.00      | 26.00 |
| 13P      | 24.00      | 28.00 |
| 14P      | 26.00      | 30.00 |
| 15P      | 28.00      | 32.00 |
| 16P      | 30.00      | 34.00 |

Unit: mm

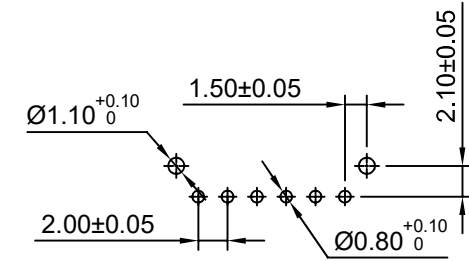
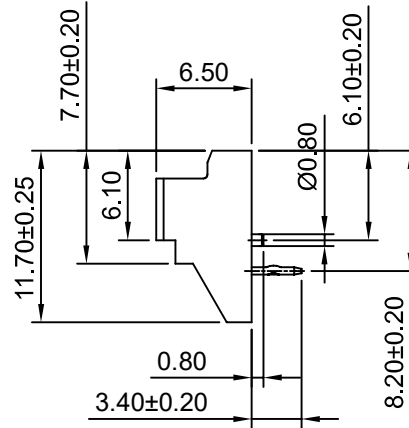
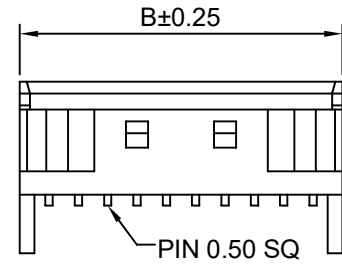
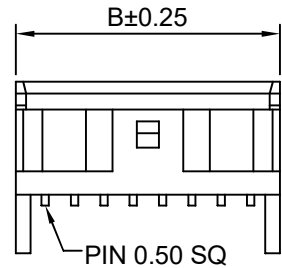
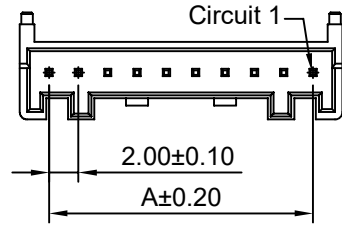
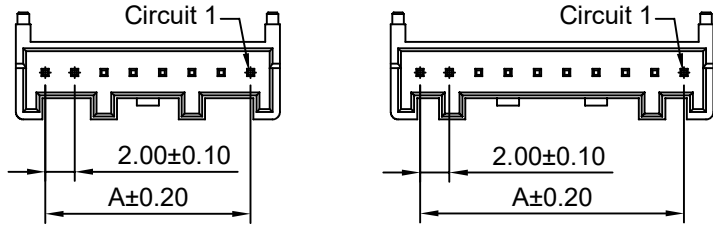




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 TEL : 0755-27129737 FAX : 0755-29940187

|   |       |        |     |   |   |       |      |             |
|---|-------|--------|-----|---|---|-------|------|-------------|
| -TOLERANCES-<br>UNLESS OTHERWISE SPECIFIED<br>公差参数表 |       |        |     |   | TITLE:<br>产品名称: 2.00mm Pitch<br>90° Wafer |       |      |             |
| X.X   | ±0.30 | X.X°   | ±3° | APPD:<br>核准: XIE  | PART NO:<br>产品编号: HDGC2012WRA-XP          |       |      |             |
| X.XX  | ±0.30 | X.XX°  | ±2° | CHECK:<br>校对: WANG  | DATE                                      | SCALE | UNIT | CODE NUMBER |
| X.XXX   | ±0.10 | X.XXX° | ±1° | DRAW:<br>绘图: WANG   | 2014-06-30                                | 3:1   | mm   | A008        |

| 修订<br>REV | 标记<br>MARK | 修改摘要<br>REVISION DESCRIPTION | 签名<br>SIGNATURE | 日期<br>DATE |
|-----------|------------|------------------------------|-----------------|------------|
| AO        |            | NEW RELEASE                  | WANG            | 2014-06-30 |



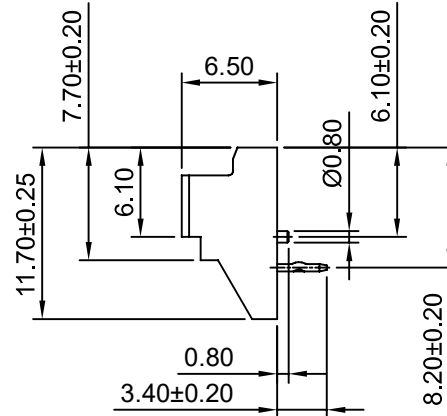
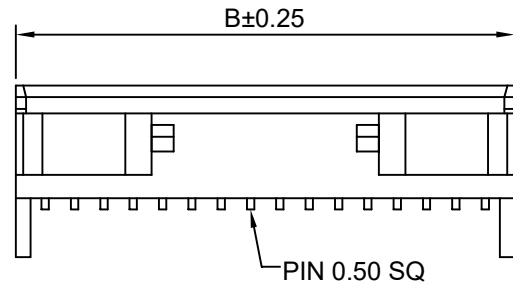
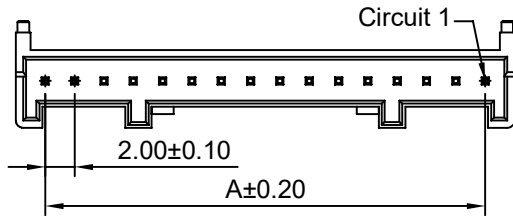
PCB LAYOUT

**SPECIFICATIONS:**

Current Rating: 3A AC,DC  
Voltage Rating: 250V AC,DC  
Temperature Range: -25°C ~ +85°C  
Contact Resistance: 10mΩ Max.  
Insulation Resistance: 1000MΩ Min.  
Withstanding Voltage: 800V AC/minute  
Pin Material: Brass/Tin over Nickel  
Material: Nylon 66,UL94V-0(White)

**Ordering Information & Dimensions**

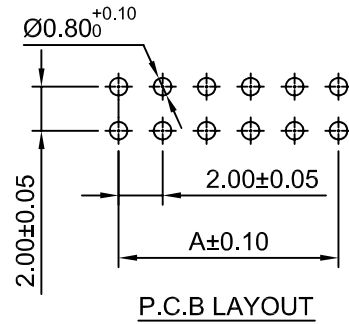
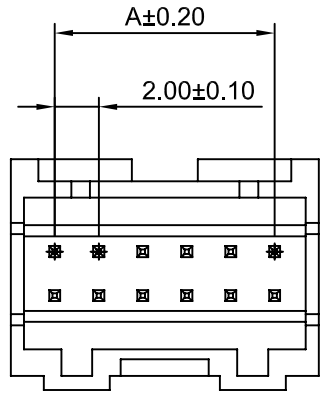
| Circuits | Dimensions(mm) |       | Circuits | Dimensions(mm) |       |
|----------|----------------|-------|----------|----------------|-------|
|          | A              | B     |          | A              | B     |
| 2P       | 2.00           | 6.00  | 10P      | 18.00          | 22.00 |
| 3P       | 4.00           | 8.00  | 11P      | 20.00          | 24.00 |
| 4P       | 6.00           | 10.00 | 12P      | 22.00          | 26.00 |
| 5P       | 8.00           | 12.00 | 13P      | 24.00          | 28.00 |
| 6P       | 10.00          | 14.00 | 14P      | 26.00          | 30.00 |
| 7P       | 12.00          | 16.00 | 15P      | 28.00          | 32.00 |
| 8P       | 14.00          | 18.00 | 16P      | 30.00          | 34.00 |
| 9P       | 16.00          | 20.00 |          |                |       |



**HDGC** 深圳市华德共创科技有限公司  
Shenzhen Huade co-create Technology Co.,LTD  
TEL : 0755-27129737 FAX : 0755-29940187

| -TOLERANCES-<br>UNLESS OTHERWISE SPECIFIED<br>公差参数表 |       |        |     | TITLE:<br>产品名称: 2.00mm Pitch<br>90° Wafer |                                    |       |      |             |
|---|-------|--------|-----|---|------------------------------------|-------|------|-------------|
| X.X   | ±0.30 | X.X°   | ±3° | APPD:<br>核准: XIE                          | PART NO:<br>产品编号: HDGC2012WRA-F-XP |       |      |             |
| X.XX  | ±0.30 | X.XX°  | ±2° | CHECK:<br>校对: WANG                        | DATE                               | SCALE | UNIT | CODE NUMBER |
| X.XXX   | ±0.10 | X.XXX° | ±1° | DRAW:<br>绘图: WANG                         | 2014-06-30                         | 2:1   | mm   | A008        |

| 修订<br>REV | 标记<br>MARK | 修改摘要<br>REVISION DESCRIPTION | 签名<br>SIGNATURE | 日期<br>DATE |
|-----------|------------|------------------------------|-----------------|------------|
| AO        |            | NEW RELEASE                  | WANG            | 2014-06-30 |

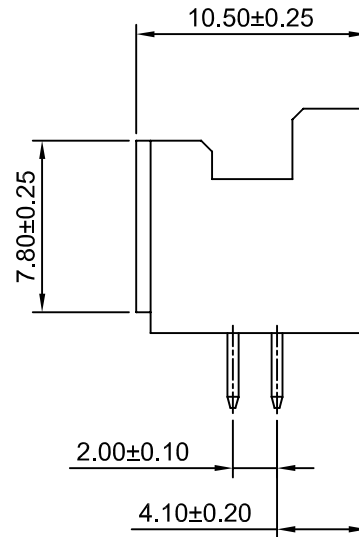
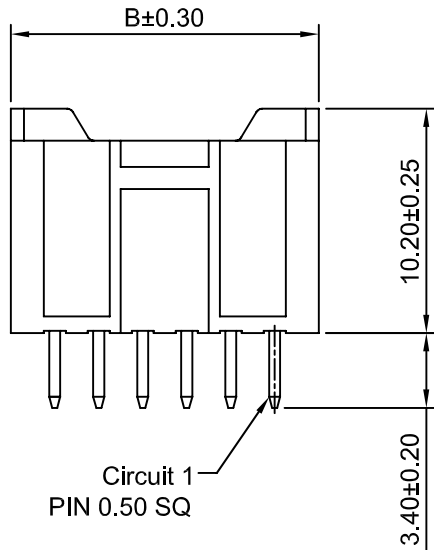


**SPECIFICATIONS:**

Current Rating: 3A AC,DC  
Voltage Rating: 250V AC,DC  
Temperature Range: -25°C ~ +85°C  
Contact Resistance: 10mΩ Max.  
Insulation Resistance: 1000MΩ Min.  
Withstanding Voltage: 800V AC/minute  
Pin Material: Phosphor Bronze/Tin over Nickel  
Material: Nylon 66, UL94V-0(White)



**Ordering Information & Dimensions**

| Circuits | Dimensions(mm) |       | Circuits | Dimensions(mm) |       |
|----------|----------------|-------|----------|----------------|-------|
|          | A              | B     |          | A              | B     |
| 2x5P     | 8.00           | 12.00 | 2x10P    | 18.00          | 22.00 |
| 2x6P     | 10.00          | 14.00 | 2x11P    | 20.00          | 24.00 |
| 2x7P     | 12.00          | 16.00 | 2x12P    | 22.00          | 26.00 |
| 2x8P     | 14.00          | 18.00 | 2x20P    | 38.00          | 42.00 |
| 2x9P     | 16.00          | 20.00 |          |                |       |

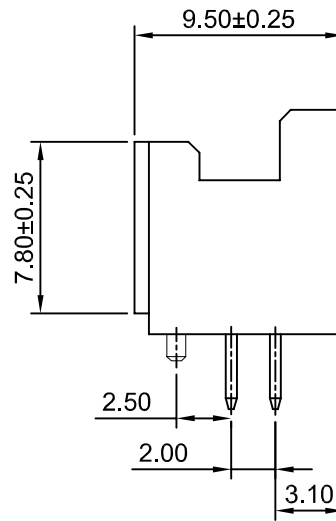
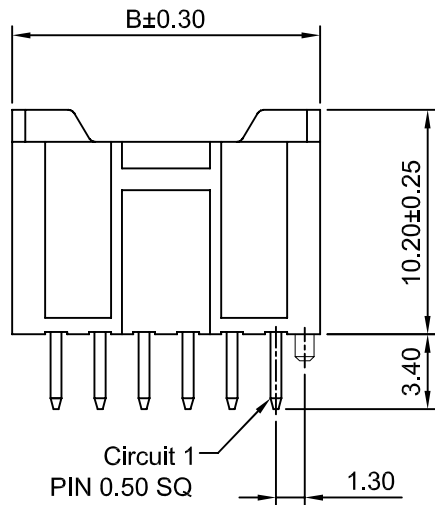
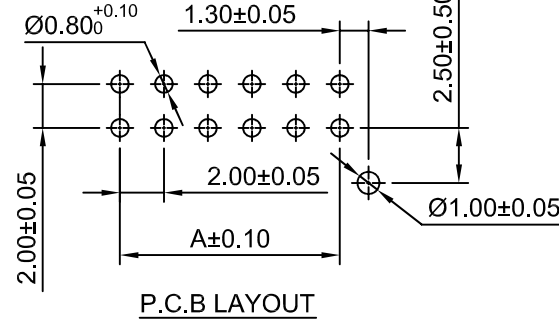
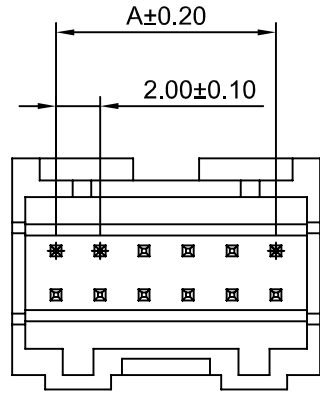


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| -TOLERANCES-<br>UNLESS OTHERWISE SPECIFIED<br>公差参数表 |       |        |     |   |      | TITLE:<br>产品名称: 2.00mm Pitch<br>180° Wafer |       |      |             |
|---|-------|--------|-----|---|------|--|-------|------|-------------|
| X.X   | ±0.30 | X.X°   | ±3° | APPD:<br>核准:  | XIE  | PART NO:<br>产品编号: HDGC2012WV-2xXP          |       |      |             |
| X.XX  | ±0.30 | X.XX°  | ±2° | CHECK:<br>校对:   | WANG | DATE                                       | SCALE | UNIT | CODE NUMBER |
| X.XXX   | ±0.10 | X.XXX° | ±1° | DRAW:<br>绘图:  | WANG | 2014-06-30                                 | 3:1   | mm   | A008        |

| 修订<br>REV | 标记<br>MARK | 修改摘要<br>REVISION DESCRIPTION | 签名<br>SIGNATURE | 日期<br>DATE |
|-----------|------------|------------------------------|-----------------|------------|
| AO        |            | NEW RELEASE                  | WANG            | 2014-06-30 |



#### SPECIFICATIONS:

Current Rating: 3A AC,DC  
Voltage Rating: 250V AC,DC  
Temperature Range: -25°C ~ +85°C  
Contact Resistance: 10mΩ Max.  
Insulation Resistance: 1000MΩ Min.  
Withstanding Voltage: 800V AC/minute  
Pin Material: Phosphor Bronze/Tin over Nickel  
Material: Nylon 66, UL94V-0(White)

#### Ordering Information & Dimensions

| Circuits | Dimensions(mm) |       | Circuits | Dimensions(mm) |       |
|----------|----------------|-------|----------|----------------|-------|
|          | A              | B     |          | A              | B     |
| 2x5P     | 8.00           | 12.00 | 2x10P    | 18.00          | 22.00 |
| 2x6P     | 10.00          | 14.00 | 2x11P    | 20.00          | 24.00 |
| 2x7P     | 12.00          | 16.00 | 2x12P    | 22.00          | 26.00 |
| 2x8P     | 14.00          | 18.00 | 2x20P    | 38.00          | 42.00 |
| 2x9P     | 16.00          | 20.00 |          |                |       |

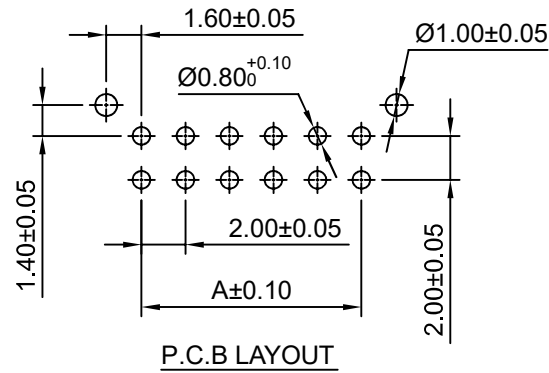
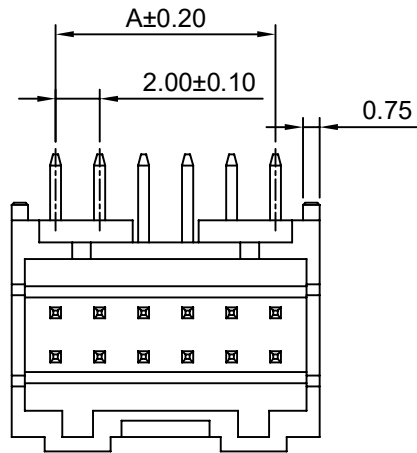


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| -TOLERANCES-<br>UNLESS OTHERWISE SPECIFIED<br>公差参数表 |       |        |     |               |      | TITLE: 2.00mm Pitch<br>产品名称: 180° Wafer |       |      |             |
|---|-------|--------|-----|---------------|------|---|-------|------|-------------|
| X.X   | ±0.30 | X.X°   | ±3° | APPD:<br>核准:  | XIE  | PART NO:<br>产品编号: HDGC2012WV-F-2xXP     |       |      |             |
| X.XX  | ±0.30 | X.XX°  | ±2° | CHECK:<br>校对: | WANG | DATE                                    | SCALE | UNIT | CODE NUMBER |
| X.XXX   | ±0.10 | X.XXX° | ±1° | DRAW:<br>绘图:  | WANG | 2014-06-30                              | 3:1   | mm   | A008        |

| 修订<br>REV | 标记<br>MARK | 修改摘要<br>REVISION DESCRIPTION | 签名<br>SIGNATURE | 日期<br>DATE |
|-----------|------------|------------------------------|-----------------|------------|
| AO        |            | NEW RELEASE                  | WANG            | 2014-06-30 |

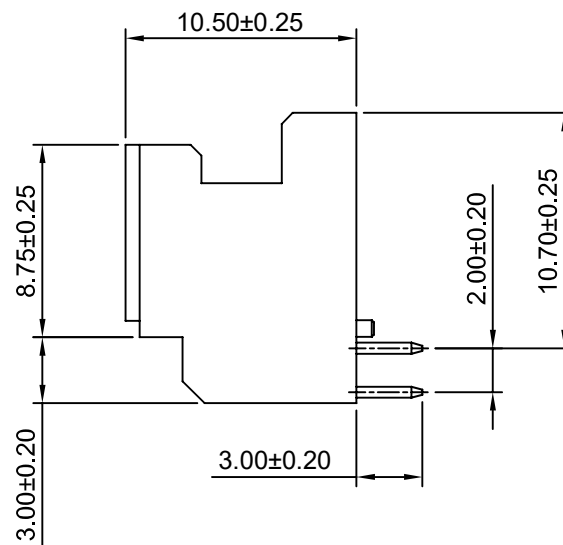
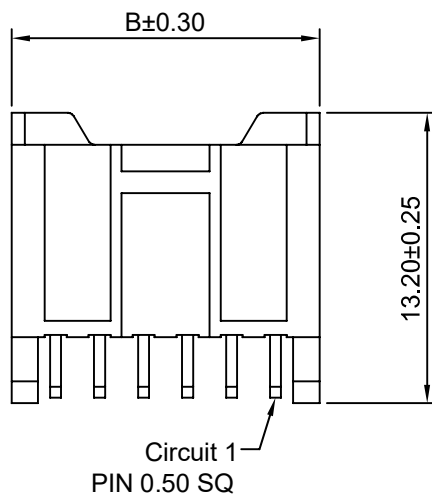


**SPECIFICATIONS:**

Current Rating: 3A AC,DC  
Voltage Rating: 250V AC,DC  
Temperature Range: -25°C ~ +85°C  
Contact Resistance: 10mΩ Max.  
Insulation Resistance: 1000MΩ Min.  
Withstanding Voltage: 800V AC/minute  
Pin Material: Phosphor Bronze/Tin over Nickel  
Material: Nylon 66, UL94V-0(White)

**Ordering Information & Dimensions**

| Circuits | Dimensions(mm) |       | Circuits | Dimensions(mm) |       |
|----------|----------------|-------|----------|----------------|-------|
|          | A              | B     |          | A              | B     |
| 2x5P     | 8.00           | 12.00 | 2x10P    | 18.00          | 22.00 |
| 2x6P     | 10.00          | 14.00 | 2x11P    | 20.00          | 24.00 |
| 2x7P     | 12.00          | 16.00 | 2x12P    | 22.00          | 26.00 |
| 2x8P     | 14.00          | 18.00 | 2x20P    | 38.00          | 42.00 |
| 2x9P     | 16.00          | 20.00 |          |                |       |



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| -TOLERANCES-<br>UNLESS OTHERWISE SPECIFIED<br>公差参数表 |       |                   |             | TITLE:<br>产品名称: 2.00mm Pitch<br>90° Wafer |      |
|---|-------|-------------------|-------------|---|------|
| X.X   | ±0.30 | X.X°              | ±3°         | APPD:<br>核准:                              | XIE  |
| X.XX  | ±0.30 | X.XX°             | ±2°         | CHECK:<br>校对:                             | WANG |
| X.XXX   | ±0.10 | X.XXX°            | ±1°         | DRAW:<br>绘图:                              | WANG |
| PART NO:<br>产品编号:                                   |       | HDGC2012WR-F-2xXP |             |   |      |
| DATE  | SCALE | UNIT              | CODE NUMBER |   |      |
| 2014-06-30  | 3:1   | mm                | A008        |   |      |