

# 浙江创都电子科技有限公司

ZHE JIANG CHUANG DU ELECTRONICS CO.,LTD

## APPROVAL SHEET

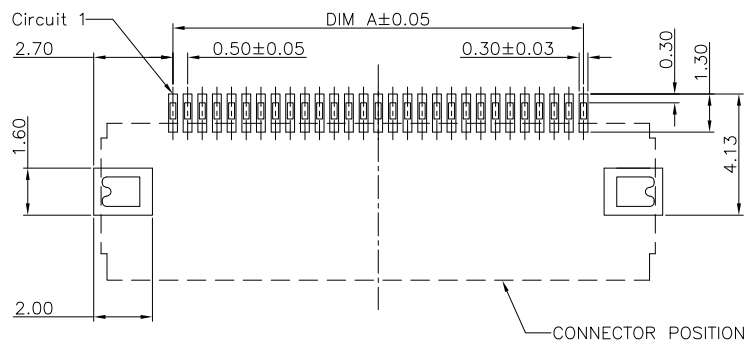
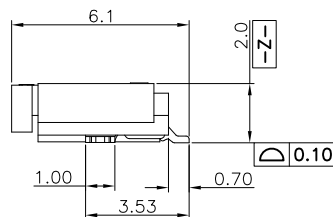
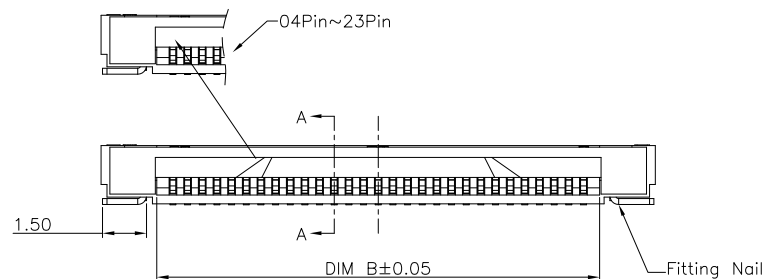
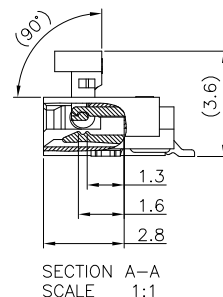
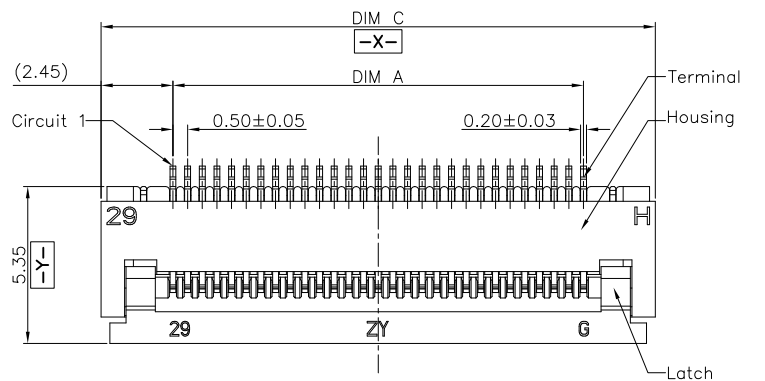
CUSTOMER: \_\_\_\_\_

CUSTOMER P/N: \_\_\_\_\_ (小批可用管装) (批货推荐卷装)

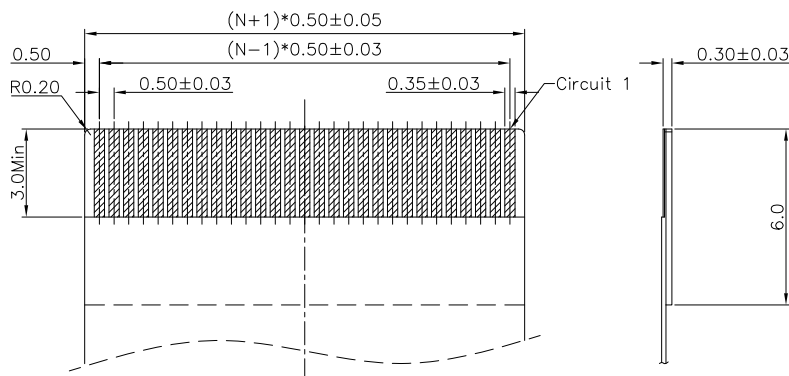
PART NAME: 0.5Pitch H=2.0 FPC Easy-on  
0.5掀盖H=2.0  
\_\_\_\_\_

PART NO. : CAX-AFC01-30XCB-H2.0  
\_\_\_\_\_

| MANUFACTURE SIGNATURE |           |         | CUSTOMER<br>SIGNATURE |
|-----------------------|-----------|---------|-----------------------|
| SALES REP.            | R&D DEPT. | QA DEPT |                       |
|                       |           |         |                       |
| DATE:                 | DATE:     | DATE:   | DATE:                 |



RECOMMENDED P.C.B. PATTERN LAYOUT



RECOMMENDED FPC/FFC DIMENSION

- Note:
- Material:
    - Housing: thermoplastic high temp.UL94V-0; Color: natural.
    - Latch: thermoplastic high temp.UL94V-0; Color: black.
    - Terminal: copper alloy.
    - Fitting Nail: copper alloy.
  - Finish:
    - Terminal:

C:Matt-tin 90~120u" on contact and solder area  
50~100u" Nickel under plating over all.

I:Gold 1u" on contact and solder area  
50~100u" Nickel under plating over all.
    - Fitting Nail:

C:Matt-tin 90~120u" over all  
50~100u" Nickel under plating over all.
  - Product must comply HF RoHS specification.

4. Product No:

AFC01-S \*\*

CKTS \*\*

CONTACTS TYPE

F:Lower

PLATING

C:Matt-Tin,

I:Gold 1u"

F

\*

\*

-

\*\*

REMARKS

HF:Halogen free

OU:CARRIER,

UNILATERAL HOLE

PACKING

A:Tape&Reel

C:Tube

| CKTS | DIM A | DIM B | DIM C |
|------|-------|-------|-------|
| 4    | 1.50  | 2.60  | 6.40  |
| 5    | 2.00  | 3.10  | 6.90  |
| 6    | 2.50  | 3.60  | 7.40  |
| 7    | 3.00  | 4.10  | 7.90  |
| 8    | 3.50  | 4.60  | 8.40  |
| 9    | 4.00  | 5.10  | 8.90  |
| 10   | 4.50  | 5.60  | 9.40  |
| 11   | 5.00  | 6.10  | 9.90  |
| 12   | 5.50  | 6.60  | 10.40 |
| 13   | 6.00  | 7.10  | 10.90 |
| 14   | 6.50  | 7.60  | 11.40 |
| 15   | 7.00  | 8.10  | 11.90 |
| 16   | 7.50  | 8.60  | 12.40 |
| 17   | 8.00  | 9.10  | 12.90 |
| 18   | 8.50  | 9.60  | 13.40 |
| 19   | 9.00  | 10.10 | 13.90 |
| 20   | 9.50  | 10.60 | 14.40 |
| 21   | 10.00 | 11.10 | 14.90 |
| 22   | 10.50 | 11.60 | 15.40 |
| 23   | 11.00 | 12.10 | 15.90 |
| 24   | 11.50 | 12.60 | 16.40 |
| 25   | 12.00 | 13.10 | 16.90 |
| 26   | 12.50 | 13.60 | 17.40 |
| 27   | 13.00 | 14.10 | 17.90 |
| 28   | 13.50 | 14.60 | 18.40 |
| 29   | 14.00 | 15.10 | 18.90 |
| 30   | 14.50 | 15.60 | 19.40 |
| 31   | 15.00 | 16.10 | 19.90 |
| 32   | 15.50 | 16.60 | 20.40 |
| 33   | 16.00 | 17.10 | 20.90 |
| 34   | 16.50 | 17.60 | 21.40 |
| 35   | 17.00 | 18.10 | 21.90 |
| 36   | 17.50 | 18.60 | 22.40 |
| 37   | 18.00 | 19.10 | 22.90 |
| 38   | 18.50 | 19.60 | 23.40 |
| 39   | 19.00 | 20.10 | 23.90 |
| 40   | 19.50 | 20.60 | 24.40 |
| 41   | 20.00 | 21.10 | 24.90 |
| 42   | 20.50 | 21.60 | 25.40 |
| 43   | 21.00 | 22.10 | 25.90 |
| 44   | 21.50 | 22.60 | 26.40 |
| 45   | 22.00 | 23.10 | 26.90 |
| 46   | 22.50 | 23.60 | 27.40 |
| 47   | 23.00 | 24.10 | 27.90 |
| 48   | 23.50 | 24.60 | 28.40 |
| 49   | 24.00 | 25.10 | 28.90 |
| 50   | 24.50 | 25.60 | 29.40 |
| 51   | 25.00 | 26.10 | 29.90 |
| 52   | 25.50 | 26.60 | 30.40 |
| 53   | 26.00 | 27.10 | 30.90 |
| 54   | 26.50 | 27.60 | 31.40 |
| 55   | 27.00 | 28.10 | 31.90 |
| 56   | 27.50 | 28.60 | 32.40 |
| 57   | 28.00 | 29.10 | 32.90 |
| 58   | 28.50 | 29.60 | 33.40 |
| 59   | 29.00 | 30.10 | 33.90 |
| 60   | 29.50 | 30.60 | 34.40 |

CUSTOMER DRAWING

|                                 |                          |
|---------------------------------|--------------------------|
| Tolerance Unspecified<br>(未注公差) | Size(图幅):<br>A4          |
| 0.0 ±0.15 0° ±5°                | Unit(单位):<br>MM          |
| 0.00 ±0.10 0° ±3°               | Scale(比例):<br>1:1        |
| 0.000 ±0.05 0° ±1°              | Project View<br>(投影视角)   |
| Rev<br>版本                       | Page(页数):<br>1 OF 1<br>A |

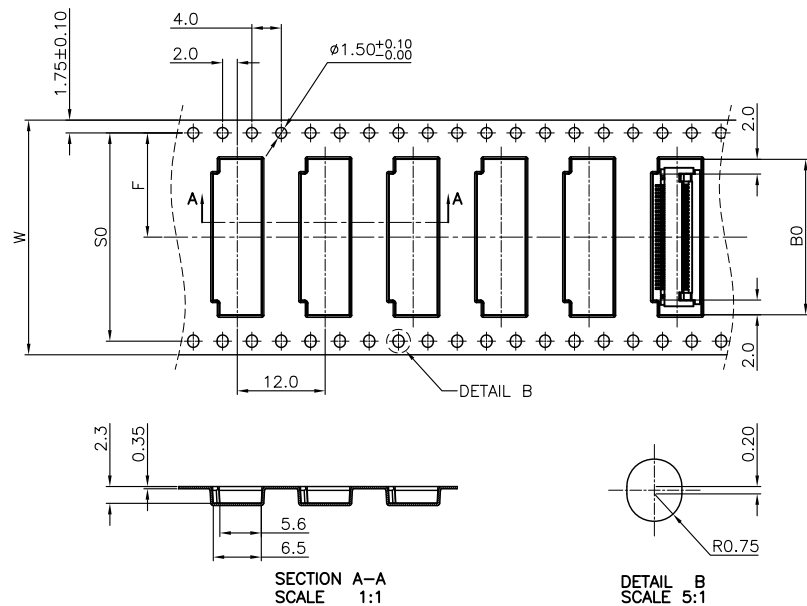
浙江创都电子科技有限公司  
ZHE JIANG CHUANG DU ELECTRONICS CO.,LTD

Product Name(产品名称):  
0.5Pitch H=2.0 FPC Easy-on R/A Type1 SMT CONN

Product No(产品料号):  
CAX-AFC01-30XCB-H2.0

Designer(设计):  
Checked(审核):  
Approved(核准):

|           |                            |            |                  |
|-----------|----------------------------|------------|------------------|
| A         | 初版发行                       | 2011/03/23 |                  |
| Rev<br>版本 | Change Description<br>变更内容 | Date<br>日期 | Revisor<br>制/修订人 |

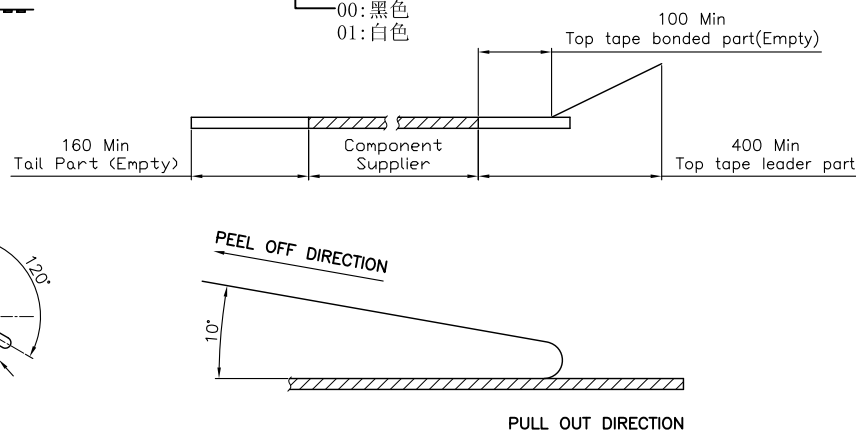


NOTES:

1. 10 SPROCKET HOLE PITCH CUMULATIVE TOLERANCE.±0.20mm
2. CARRIER CAMBER NOT TO EXCEED 1mm IN 250mm.
3. ALL DIMENSIONS MEET EIA-481-C REQUIREMENTS.
4. MATERIAL: XXXXX ANTI-STATIC POLYSTYRENE.
5. THICKNESS: 0.35 ± 0.05 mm.
6. PACKING LENGTH PER 13" REEL : 24.60METERS.
7. COMPONENT LOAD PER 13" REEL : 2000PCS.
8. PEELING OFF FORCE OF TOP TAPE 0.1N~0.7N(10.2gf~71.4gf).

EB-650XX230-XX

└── 00: 黑色  
    01: 白色



| CKTS | BO ± 0. 10 | W          | W1    | F             | SO ± 0. 10 |       |               |       |       |
|------|------------|------------|-------|---------------|------------|-------|---------------|-------|-------|
| 4    | 6. 70      | 16±0. 3/-0 | 16. 4 | 7. 5 ± 0. 10  | 单边孔        |       |               |       |       |
| 5    | 7. 20      |            |       |               |            |       |               |       |       |
| 6    | 7. 70      |            |       |               |            |       |               |       |       |
| 7    | 8. 20      |            |       |               |            |       |               |       |       |
| 8    | 8. 70      |            |       |               |            |       |               |       |       |
| 9    | 9. 20      |            |       |               |            |       |               |       |       |
| 10   | 9. 70      |            |       |               |            |       |               |       |       |
| 11   | 10. 20     |            |       |               |            |       |               |       |       |
| 12   | 10. 70     |            |       |               |            |       |               |       |       |
| 13   | 11. 20     |            |       |               |            |       |               |       |       |
| 14   | 11. 70     |            |       |               |            |       |               |       |       |
| 15   | 12. 20     |            |       |               |            |       |               |       |       |
| 16   | 12. 70     | 24±0. 3/-0 | 24. 4 | 11. 5 ± 0. 10 |            |       |               |       |       |
| 17   | 13. 20     |            |       |               |            |       |               |       |       |
| 18   | 13. 70     |            |       |               |            |       |               |       |       |
| 19   | 14. 20     |            |       |               |            |       |               |       |       |
| 20   | 14. 70     |            |       |               |            |       |               |       |       |
| 21   | 15. 20     |            |       |               |            |       |               |       |       |
| 22   | 15. 70     |            |       |               |            |       |               |       |       |
| 23   | 16. 20     |            |       |               |            |       |               |       |       |
| 24   | 16. 70     |            |       |               |            |       |               |       |       |
| 25   | 17. 20     |            |       |               |            |       |               |       |       |
| 26   | 17. 70     |            |       |               | 32 ± 0. 30 | 32. 4 | 14. 2 ± 0. 10 | 28. 4 |       |
| 27   | 18. 20     |            |       |               |            |       |               |       |       |
| 28   | 18. 70     |            |       |               |            |       |               |       |       |
| 29   | 19. 20     |            |       |               |            |       |               |       |       |
| 30   | 19. 70     |            |       |               |            |       |               |       |       |
| 31   | 20. 20     |            |       |               |            |       |               |       |       |
| 32   | 20. 70     |            |       |               |            |       |               |       |       |
| 33   | 21. 20     |            |       |               |            |       |               |       |       |
| 34   | 21. 70     |            |       |               |            |       |               |       |       |
| 35   | 22. 20     |            |       |               |            |       |               |       |       |
| 36   | 22. 70     | 44 ± 0. 30 | 44. 4 | 20. 2 ± 0. 15 |            |       |               |       | 40. 4 |
| 37   | 23. 20     |            |       |               |            |       |               |       |       |
| 38   | 23. 70     |            |       |               |            |       |               |       |       |
| 39   | 24. 20     |            |       |               |            |       |               |       |       |
| 40   | 24. 70     |            |       |               |            |       |               |       |       |
| 41   | 25. 20     |            |       |               |            |       |               |       |       |
| 42   | 25. 70     |            |       |               |            |       |               |       |       |
| 43   | 26. 20     |            |       |               |            |       |               |       |       |
| 44   | 26. 70     |            |       |               |            |       |               |       |       |
| 45   | 27. 20     |            |       |               |            |       |               |       |       |
| 46   | 27. 70     |            |       |               |            |       |               |       |       |
| 47   | 28. 20     |            |       |               | 56 ± 0. 30 | 56. 4 | 26. 2 ± 0. 15 | 52. 4 |       |
| 48   | 28. 70     |            |       |               |            |       |               |       |       |
| 49   | 29. 20     |            |       |               |            |       |               |       |       |
| 50   | 29. 70     |            |       |               |            |       |               |       |       |
| 51   | 30. 20     |            |       |               |            |       |               |       |       |
| 52   | 30. 70     |            |       |               |            |       |               |       |       |
| 53   | 31. 20     |            |       |               |            |       |               |       |       |
| 54   | 31. 70     |            |       |               |            |       |               |       |       |
| 55   | 32. 20     |            |       |               |            |       |               |       |       |
| 56   | 32. 70     |            |       |               |            |       |               |       |       |
| 57   | 33. 20     |            |       |               |            |       |               |       |       |
| 58   | 33. 70     |            |       |               |            |       |               |       |       |
| 59   | 34. 20     |            |       |               |            |       |               |       |       |
| 60   | 34. 70     |            |       |               |            |       |               |       |       |

CLASSIFICATION DIMENSION(尺寸类别):  
FAI(首次检验): ③ To ③  
"■" MARK IS MAJOR DIM(重点尺寸标示)  
"⊙" MARK IS CRITICAL DIM(Cpk&Cp标示)

|                                                                                       |                            |
|---------------------------------------------------------------------------------------|----------------------------|
| Tolerance Unspecified<br>(未注公差)                                                       | Size(幅):<br><b>A4</b>      |
| 0.0 ±0.10 0° ±3°                                                                      | Unit(单位):<br><b>MM</b>     |
| 0.00 ±0.05 0° 0° ±2°                                                                  | Scale(比例):<br><b>1 : 1</b> |
| 0.000 ±0.02 0° 0° ±1°                                                                 |                            |
| Project View<br>(投影视角)                                                                | Page(页数):<br><b>1 OF 1</b> |
|  | Rev(版本):<br><b>2.0</b>     |

**浙江创都电子科技有限公司**  
ZHE JIANG CHUANG DU ELECTRONICS CO.,LTD

|                     |                                 |
|---------------------|---------------------------------|
| Product Name(产品名称): | 0.5Pitch H=2.0 FPC 掀盖卧式SMT型. 载带 |
|---------------------|---------------------------------|

|                   |                 |
|-------------------|-----------------|
| Product No(产品料号): | EB-650XXX230-XX |
|-------------------|-----------------|

|                   |            |
|-------------------|------------|
| Drawing No(图面编号): | Date(日期):  |
| DNE00001-1        | 2019/03/30 |

|                |               |                |
|----------------|---------------|----------------|
| Designer (设计): | Checked (审核): | Approved (核准): |
|----------------|---------------|----------------|

|           |                            |            |                      |
|-----------|----------------------------|------------|----------------------|
| 2.0       | 新增白色载带规格                   | 2019/03/30 |                      |
| 1.0       | 初版发行                       | 2011/04/15 |                      |
| Rev<br>版本 | Change Description<br>变更内容 | Date<br>日期 | Revised By<br>制订/修订人 |

# 浙江创都电子科技有限公司

ZHE JIANG CHUANG DU ELECTRONICS CO.,LTD

REV. A

## 产 品 规 格 书 PRODUCT SPECIFICATION

### 【1】适用范围 SCOPE

本规格书适用于 0.5mm Pitch H=2.0 FPC 掀盖卧式 SMT 型连接器系列。

This specification covers the 0.5mm Pitch H=2.0 FPC Easy-on R/A SMT type connectors series.

### 【2】外观尺寸 CONNECTOR DIMENSIONS

请参照图面

See attached drawings.

### 【3】材质 MATERIAL

绝缘胶体 Housing: LCP

颜色 Color:白色 White

耐燃等级 (UL94V-0)Flammability Rating (UL94V-0).

后盖 Actuator: LCP

颜色 Color:黑色 Black

耐燃等级 (UL94V-0)Flammability Rating (UL94V-0).

端子 Terminal: 磷青铜 Phosphor Bronze.

焊片 Fitting Nail:磷青铜 Phosphor Bronze.

### 【4】建议 P.C.B LAYOUT 图 ACCOMMODATED P.C.B LAYOUT

请参照图面

See attached drawings.

### 【5】等级 RATING

| 项 目<br>ITEM                           | 规 格<br>SPECIFICATIONS                   |
|---------------------------------------|-----------------------------------------|
| 最大容许电压<br>Operating Voltage(Max.)     | 50V AC                                  |
| 最大容许电流<br>Current Rating(Max.)        | 0.5A DC                                 |
| 使用温度范围<br>Operating Temperature range | -55℃ ~ +85℃                             |
| 使用湿度范围<br>Operating humidity range    | 相对湿度90%以下<br>Relative humidity 90% max. |
| 保存温度范围<br>Storage temperature range   | -10℃ ~ +50℃                             |
| 保存湿度范围<br>Storage humidity range      | 相对湿度90%以下<br>Relative humidity 90% max. |

\*:包含电流通过所产生的上升温度 Including terminal temperature rise.

# 浙江创都电子科技有限公司

ZHE JIANG CHUANG DU ELECTRONICS CO.,LTD

REV. A

## 【6】性能 PERFORMANCE

### 6.1 电气特性 ELECTRICAL PERFORMANCE

| 项目<br>ITEM                    | 测试条件<br>TEST CONDITION                                                                                                                                        | 规格<br>REQUIRMENT            |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| 接触阻抗<br>Contact Resistance    | 将样品与适合之FPC连接, 测试电压20mV, 限电流10mA下进行阻抗测试。(EIA-364-23)<br>Mate applicable FPC and measure by dry circuit, 20mV Max, 10mA. (EIA-364-23)                           | 30 mΩ最大.<br>30 mΩ Max.      |
| 绝缘阻抗<br>Insulation Resistance | 将样品与适合之FPC连接, 提供相邻端子间测试电压500V DC进行绝缘阻抗测试(EIA-364-21)<br>Mate applicable FPC and apply 500V DC between adjacent terminal or ground. (EIA-364-21)               | 500 MΩ最小.<br>500 MΩ Min.    |
| 耐电压<br>Dielectric Strength    | 将样品与适合之FPC连接, 相邻端子间需可承受250V AC(rms) 1分钟。(EIA-364-20)<br>Mate applicable FPC, apply 250V AC(rms) for 1 minute between adjacent terminal or ground.(EIA-364-20) | 目视外观无任何损坏异状<br>No Breakdown |

### 6.2 机械特性 MECHANICAL PERFORMANCE

| 项目<br>ITEM                        | 测试条件<br>TEST CONDITION                                                                                                                                        | 规格<br>REQUIRMENT                  |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| FPC保持力<br>FPC Retention Force     | 将盖子盖上, 与FPC连接, 以操作速度每分钟位移25±3mm进行FPC保持力测试。<br>Insert the actuator, pull the FPC at a rate of 25±3mm per minute.                                               | Pos.x 0.30N最小<br>Pos.x 0.30N Min. |
| 端子保持力<br>Terminal Retention Force | 端子与Housing组装后, 以操作速度每分钟位移25±3mm将端子拔出Housing, 进行端子保持力测试。<br>Apply axial pull out force at the rate of 25±3 mm/minute on the terminal assembled in the housing. | 3N最小.<br>3N Min.                  |

# 浙江创都电子科技有限公司

ZHE JIANG CHUANG DU ELECTRONICS CO.,LTD

REV. A

| 项目<br>ITEM                            | 测试条件<br>TEST CONDITION                                                                                                                                                                    | 规格<br>REQUIREMENT   |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 焊片保持力<br>Fitting Nail Retention Force | 焊片与Housing组装后，以操作速度每分钟位移 $25\pm 3\text{mm}$ 将焊片拔出Housing，进行焊片保持力测试。<br>Apply axial pull out force at the rate of $25\pm 3\text{ mm/minute}$ on the Fitting Nail assembled in the housing. | 1.0N最小.<br>1.0N Min |

## 6.3 环境特性及其它性能 ENVIRONMENTAL PERFORMANCE AND OTHERS

| 项目<br>ITEM               | 测试条件<br>TEST CONDITION                                                                                                                                                                                                                                                                                                                                                                        | 规格<br>REQUIREMENT          |                           |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------|
| 耐久性<br>Durability        | 将盖子与FPC反复连接，以每分钟小于10 cycles连续操作20次。<br>Insert and withdraw actuator up to 20 cycles at the speed rate of less than 10 cycles/minute.                                                                                                                                                                                                                                                          | 接触阻抗<br>Contact Resistance | 60mΩ最大.<br>60mΩ Max.      |
| 温度上升<br>Temperature Rise | 量测通过FPC最大容许电流时，样品接触点之温升 (EIA-364-70 METHOD 2)<br>Mate applicable FPC and measure the temperature rise of contact when the maximum AC rated current is passed.                                                                                                                                                                                                                                 | 温升<br>Temperature rise     | 30°C最大.<br>30°C Max.      |
| 耐振性<br>Vibration         | 通过DC电流1mA，位移相对距离1.5mm，振动周期10~55~10 Hz在1分钟内，持续2小时，方向在X,Y,Z轴做测试。(EIA-364-28 Condition I)<br>Mate connectors and subject to the following vibration conditions, for period of 2 hours in each of 3 mutually perpendicular axes, passing DC 1mA during the test. Amplitude : 1.5mm P-P Frequency : 10~55~10 Hz in 1 minute. Duration : 2 hours in each of X,Y,Z axes.<br>(EIA-364-28 Condition I) | 外观<br>Appearance           | 目视外观无任何损坏异状<br>NoDamage   |
|                          |                                                                                                                                                                                                                                                                                                                                                                                               | 接触阻抗<br>Contact Resistance | 60mΩ最大.<br>60mΩ Max.      |
|                          |                                                                                                                                                                                                                                                                                                                                                                                               | 瞬间断电<br>Discontinuity      | 1 μ sec最大<br>1 μ sec Max. |

# 浙江创都电子科技有限公司

ZHE JIANG CHUANG DU ELECTRONICS CO.,LTD

REV. A

| 项目<br>ITEM             | 测试条件<br>TEST CONDITION                                                                                                                                                                                                                                                                                                                                                                                                            | 规格<br>REQUIRMENT           |                            |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------|
| 耐冲击性<br>Shock          | 将样品与适合之FPC连接, 通过DC 1 mA测试条件, 连续测试3次。在X、Y、Z 3轴6个垂直方向施予重力加速度490m/s <sup>2</sup> {50G} 冲击。<br>(EIA-364-27, test condition A)<br>Mate applicable FPC and subject to the following shock conditions. 3 times of shocks shall be applied for each 6 directions along 3 mutually perpendicular axes, passing DC 1 mA current during the test. (Total of 18 shocks) Peak value : 490m/s <sup>2</sup> {50G} (EIA-364-27, test condition A) | 外观<br>Appearance           | 目视外观无任何损坏异状<br>NoDamage    |
|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                   | 接触阻抗<br>Contact Resistance | 60mΩ 最大.<br>60mΩ Max.      |
|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                   | 瞬间断电<br>Discontinuity      | 1 μ sec 最大<br>1 μ sec Max. |
| 耐热性<br>Heat Resistance | 将样品与适合之FPC连接, 置于环境温度85±2℃测试时间96小时, 再置放于室温下1~2小时。<br>Mate applicable FPC and expose to 85±2℃ for 96 hours. Upon completion of the exposure period, the test specimens shall be conditioned at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed.                                                                                                                                 | 外观<br>Appearance           | 目视外观无任何损坏异状<br>NoDamage    |
|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                   | 接触阻抗<br>Contact Resistance | 60mΩ 最大.<br>60mΩ Max.      |
| 耐寒性<br>Cold Resistance | 将样品与适合之FPC连接, 置于环境温度-40±2℃, 测试时间96小时, 再置放于室温下1~2小时。<br>Mate applicable FPC and expose to -40±2℃ for 96 hours. Upon completion of the exposure period, the test specimens shall be conditioned at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed.                                                                                                                             | 外观<br>Appearance           | 目视外观无任何损坏异状<br>NoDamage    |
|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                   | 接触阻抗<br>Contact Resistance | 60mΩ 最大.<br>60mΩ Max.      |

# 浙江创都电子科技有限公司

ZHE JIANG CHUANG DU ELECTRONICS CO.,LTD

REV. A

| 项目<br>ITEM                  | 测试条件<br>TEST CONDITION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 规格<br>REQUIREMENT               |                           |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------------|
| 耐湿性<br>Humidity             | 将样品与适合之FPC连接，置于环境温度 $60\pm 2^{\circ}\text{C}$ ，相对湿度90~95%，测试时间96小时，再置放于室温下1~2小时。<br>Mate applicable FPC and expose to $60 \pm 2^{\circ}\text{C}$ , relative humidity 90 to 95% for 96 hours. Upon completion of the exposure period, the test specimens shall be conditioned at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed.                                                                                                                  | 外观<br>Appearance                | 目视外观无任何损坏异状<br>NoDamage   |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 接触阻抗<br>Contact Resistance      | 60mΩ最大.<br>60mΩMax.       |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 耐电压<br>Dielectric Strength      | 需能符合耐电压测试<br>No Breakdown |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 绝缘阻抗<br>Insulation t Resistance | 30 MΩ 最小.<br>30 MΩ Min    |
| 冷热冲击<br>Temperature Cycling | 将样品与适合之FPC连接，承受5 cycles冷热冲击后置放于室温下1~2小时。1 cycle time如下<br>a) $-55\pm 3^{\circ}\text{C}$ 30分钟<br>b) $+85\pm 3^{\circ}\text{C}$ 30分钟<br>Mate applicable FPC and subject to the following conditions for 5 cycles. Upon completion of the exposure period, the test specimens shall be conditioned at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed. 1 cycle<br>a) $-55\pm 3^{\circ}\text{C}$ 30minutes<br>b) $+85\pm 3^{\circ}\text{C}$ 30minutes | 外观<br>Appearance                | 目视外观无任何损坏异状<br>NoDamage   |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 接触阻抗<br>Contact Resistance      | 60mΩ 最大.<br>60mΩ Max.     |
| 盐水喷雾<br>Salt Spray          | 将样品与适合之FPC连接，使用 $5\pm 1\%$ 浓度盐水，测试温度 $35\pm 2^{\circ}\text{C}$ ，测试时间 $48\pm 4$ 小时,后于室温下使用清水冲洗后再干燥。<br>Mate applicable FPC and expose to the following salt mist conditions. Upon completion of the exposure period, salt deposits shall be removed by a gentle wash or dip in running water, after which the specified measurements shall be performed. NaCl solution<br>Concentration : $5 \pm 1\%$<br>Spray time : $48 \pm 4$ hours<br>Ambient temperature : $35 \pm 2^{\circ}\text{C}$             | 外观<br>Appearance                | 目视外观无任何损坏异状<br>NoDamage   |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 接触阻抗<br>Contact Resistance      | 60mΩ 最大.<br>60mΩ Max.     |

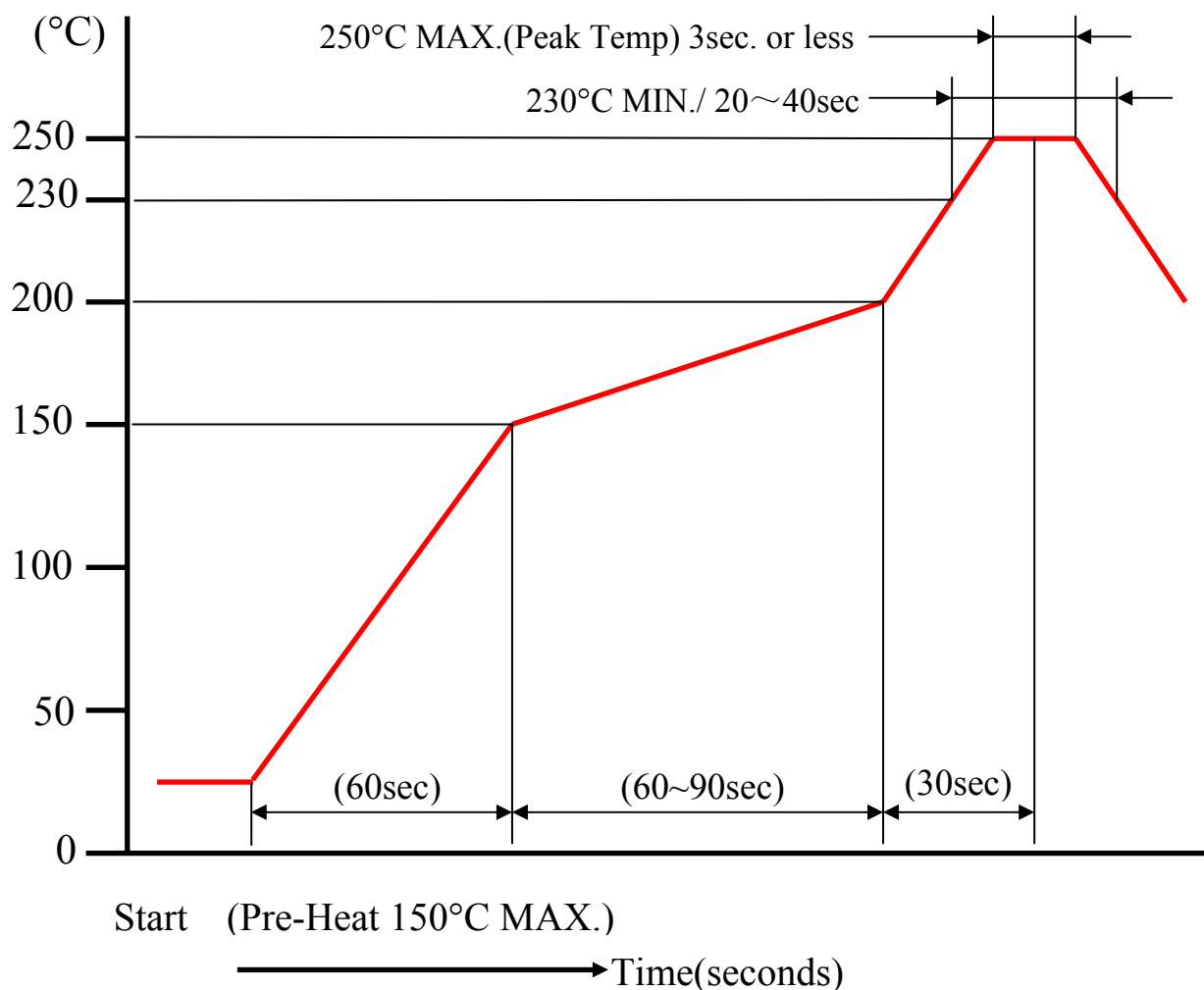
# 浙江创都电子科技有限公司

ZHE JIANG CHUANG DU ELECTRONICS CO.,LTD

REV. A

| 项目<br>ITEM                            | 测试条件<br>TEST CONDITION                                                                                                                                                                                                      | 规格<br>REQUIRMENT           |                                                                              |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------------------------------------------------|
| 二氧化硫(气体)<br>SO2 Gas                   | 将样品与适合之FPC连接, 将其置于50±5 ppm浓度二氧化硫气体中, 测试温度40±2°C, 测试时间24小时。<br>Mate applicable FPC and expose them to the following SO2 gas atmosphere.<br>Temperature 40 ± 2°C<br>Gas Density 50 ± 5 ppm<br>Duration 24 hours               | 外观<br>Appearance           | 目视外观无任何损坏异状<br>NoDamage                                                      |
|                                       |                                                                                                                                                                                                                             | 接触阻抗<br>Contact Resistance | 60mΩ 最大.<br>60mΩ Max.                                                        |
| 氨(气体)<br>NH3 Gas                      | 暴露来自浓度28%阿摩尼亚之蒸发气体NH3中, 测试时间40分钟。<br>40 minutes exposure to NH3 gas evaporating from 28% Ammonia solution.                                                                                                                  | 外观<br>Appearance           | 目视外观无任何损坏异状<br>NoDamage                                                      |
|                                       |                                                                                                                                                                                                                             | 接触阻抗<br>Contact Resistance | 60mΩ 最大.<br>60mΩ Max.                                                        |
| 焊锡性<br>Solderability                  | 锡温245±5°C, 将导电端子浸入锡炉液面至Housing距离锡面0.1mm位置, 焊锡时间3±0.5秒。<br>Tip of solder tails and fitting nails into the molten solder (held at 245±5°C) up to 0.1mm from the bottom of the housing for 3±0.5 seconds.                      | 润湿性<br>Solder Wetting      | 润湿面积75%以上, 并不得有漏焊针孔现象<br>75% of immersed area must show no voids, pin holes. |
| 焊锡耐热性<br>Resistance to Soldering Heat | 使用红外线回焊时请参考第7<br>When reflowing Refer to paragraph 7.<br>使用烙铁手焊时须可符合下述焊锡条件<br>Soldering iron method<br>0.2mm from terminal tip and fitting nail tip.<br>Soldering time : 5 seconds Max.<br>Solder temperature : 370 ~ 400°C | 外观<br>Appearance           | 目视外观无任何损坏异状<br>NoDamage                                                      |

### 【7】 红外线回焊温度曲线 INFRARED REFLOW CONDITION

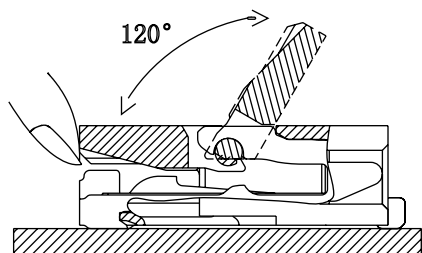


温度条件TEMPERATURE CONDITION GRAPH  
(基板表面温度) (TEMPERATURE ON BOARD PATTERN SIDE)

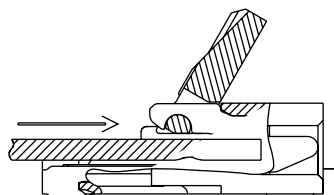
# 掀盖式产品操作注意事项

Instruction upon usage of zif essay on type

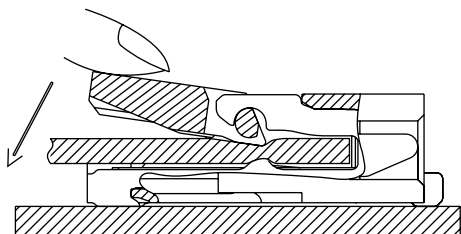
步骤1:使用拇指或食指, 将上盖往上掀开。  
Step 1:Use the thumb or the forefinger, raise the topcover up.



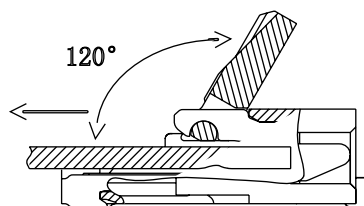
步骤2:FPC 金属指朝下平行插入连接器中。  
Step 2:FPC gets along with conductivity down.The parallel one inserts it in the connector



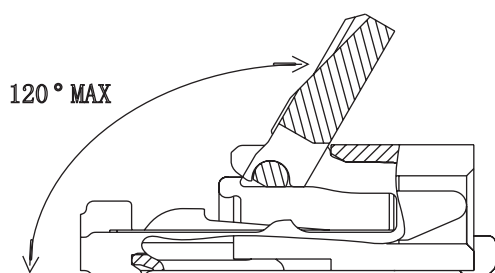
步骤3:轻压上盖往下旋转至定位, 直到FPC 完全插入且没有移动。  
Step 3: Press the top cover lightly and rotate down tomake a reservation ,until FPC is totallyinserted and not moved .



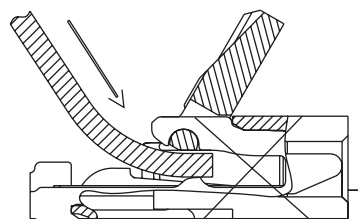
步骤4:FPC退出时, 小心掀起上盖, 依序将FPC退出。  
Step 4:Lift the top cover carefully,withdraw FPC.



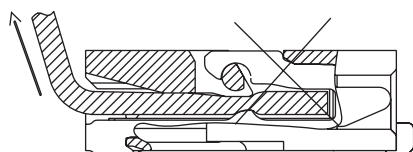
警告:旋转的角度不可大于120 度。  
Warning:The whirling angle can't be greater than 120degrees.



警告:当FPC插入的角度过大时, 可能会引起导通不良。  
Warning:When the angle that FPC inserts in is askew,may cause electrical discontinuity.



警告:向上拉扯的力量不要超过0.04N/pin max.  
Warning:The strength of dragging upwards don't exceed 0.04N/pin max .



Load 0.04N / pin Max.

警告:开启连接器上盖时, 不要使用过度的力量, 避免接触到端子。  
Warning:While opening the connector and lifting and covering , don't use excessive strength and avoid touching the end son .

