



# 喬訊電子工業股份有限公司

CHYAO SHIUNN ELECTRONIC INDUSTRIAL LTD.  
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| Type Document   | Product Specification | Revised / Edition | A                               |
| Date Issued   | 2010/11/25            | Data Revised      | 2010/11/25                      |
| Subject: JS-1007V-XX<br>Pitch FPC Series Connector System |                       |                   | Issued By:<br>Engineering Dept. |

*This specification is referred to the FPC series connector System*

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Approved by

Checked by

Prepared by



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## 1.0 Product Name/Part Number & Drawing Number:

| Product Name  | Part Number |
|---------------|-------------|
| FPC CONNECTOR | JS-1007V-XX |

Note: (xx) The number of the circuits.

## 2.0 Construction/Dimensions/Material & Surface Finish:

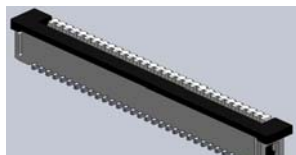
Construction and dimensions shall be in accordance with the referenced drawing.  
Material and surface finish shall be specified as listing.

| Part Name | Material    | Surface Finish           |
|-----------|-------------|--------------------------|
| Base      | NYLON       | UL 94V-0                 |
| Actuator  | NYLON       | UL 94V-0                 |
| Terminal  | Phos.Bronze | Sn/Matte sn /Gold Plated |

## 3.0 Characteristic:

| Item                           | Standard        |
|--------------------------------|-----------------|
| 3.1 Rated Current              | 1.0A Max.       |
| 3.2 Rated Voltage              | 125V AC/DC Max. |
| 3.3 Temperature Range          | -40°C~+85°C     |
| 3.5 Accommodated FFC thickness | 0.30±0.03mm     |

## 4.0 Specimen:

| Part Name | Part Number | Picture or Photograph   |
|-----------|-------------|---|
| FPC       | JS-1007V-XX |  |



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## 5.0 Applicable Standards:

- MIL-STD-202 Methods by test of connectors for electronic equipment.
- MIL-STD-1344 Test methods for electrical connectors.

## 6.0 Appearance

| Item           | Test Method        | Requirement  |
|----------------|--------------------|--|
| 6.1 Appearance | Visual inspection. | There shall be no creak, no deformation or discoloration which may affect the performance specified in this specification. |

## 7.0 Mechanical Performance:

| Item                                     | Test Method  | Requirement            |
|--|--|------------------------|
| 7.1 Actuator Insertion/ Withdrawal Force | Mate applicable FFC and insert and Withdrawal actuator.<br>(Testing speed: 25.4 mm/min.)   | Refer to paragraph 11. |
| 7.2 FFC/FPC Withdrawal Force             | A 0.30mm thickness FFC and a FPC connector shall be unmated on the mating axis. Initial withdrawal forces and also the force at 30 <sup>th</sup> shall be measured.<br>(Testing speed: 25.4 mm/min.) | Refer to paragraph 11. |



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| Item | Test Method  | Requirement              |
|------|--|--------------------------|
| 7.3  | Terminal Retention Force<br>The contact (fitting nail) mounted in a FPC shall be pushed in the mating axis direction. The load required to pull the contact out of the FPC shall be measured.<br>(Testing speed: 25.4 mm/min.) | 0.5Kg Min.<br>(Terminal) |

## 8.0 Electrical Performance:

| Item | Test Method   | Requirement                               |
|------|---|---|
| 8.1  | Contact Resistance<br>Contact resistance between points A and B of the specimen assembled for actual use shown in the figure on the right side shall be measured under the following conditions.<br>Test current: 10mA(DC)<br>Open voltage: 20mV max. | 20 m $\Omega$ Max.                        |
| 8.2  | Insulation Resistance<br>500V DC shall be applied between adjacent contacts of a mated specimen to measure insulation resistance.   | 100 M $\Omega$ Min.                       |
| 8.3  | Dielectric Withstanding Voltage<br>500V AC Min. shall be applied between adjacent contacts of a mated specimen for one minute.  | There shall be no breakdown or flashover. |



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## 9.0 Environmental Performance:

| Item                 | Test Method  | Requirement   |
|----------------------|--|---|
| 9.1 Durability       | Insert and withdraw the FPC up to <b>30 cycles</b> at the speed rate of less than 10 cycles/minute.  | Contact Resistance: <b>40 mΩ Max</b>  |
| 9.2 Temperature Rise | Carrying rated current load. (UL498)   | Temperature Rise: <b>30°C Max.</b>  |
| 9.3 Heat Resistance  | The specimen shall be placed in a heat oven of the following conditions. After the test contact resistance shall be measured.<br>Temperature: <b>85±2°C</b><br>Period: <b>96 hours</b>   | Appearance: no damage<br>Contact Resistance: <b>40 mΩ Max</b>   |
| 9.4 Cold Resistance  | The specimen shall be placed in a heat oven of the following conditions. After the test contact resistance shall be measured.<br>Temperature: <b>-40±2°C</b><br>Period: <b>96 hours</b>  | Appearance: no damage<br>Contact Resistance: <b>40 mΩ Max</b>   |
| 9.5 Vibration        | The specimen shall be mounted on a PCB and subjected to a vibration test of the following conditions. During the test, current continuity shall be checked. After the test contact resistance shall be measured.<br>Frequency: 10~55~10 Hz/minute.<br>Amplitude: 1.52 mm.<br>Direction: Each of X,Y,Z-axis directions<br>Period: 2 hours for each direction. | Appearance: no damage<br>Contact resistance: <b>40 mΩ Max.</b><br>There shall be no current discontinuity longer than <b>1 μS.</b> during the test. |
| 9.6 Shock            | 490m/s <50G>, 3 storks in each X.Y.Z axes. (EIA-364-27B)   |   |



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| Item                 | Test Condition   | Requirement  |
|----------------------|--|--|
| 9.7<br>Humidity      | <p>The specimen shall be placed in a humidity chamber of the following conditions. After test, contact resistance, insulation resistance and dielectric withstanding voltage shall be measured.</p> <p>Temperature: 40±2°C.<br/>Humidity: 90%~95% (RH).<br/>Period: 96 hours</p>   | <p>Contact resistance:<br/>40 mΩ Max.</p> <p>Insulation resistance shall be 50 MΩ Min. After the test. There shall be no breakdown or flashover on the dielectric withstanding voltage test.</p> |
| 9.8<br>Thermal Shock | <p>The specimen shall be subjected to a thermal shock test of the following conditions. After test, contact resistance, insulation resistance and dielectric withstanding voltage shall be measured.</p> <p>One Cycle Consists Of:<br/>-55 ± 3°C for 30 minutes.<br/>+85 ± 2°C for 30 minutes.<br/>Time of Cycles: 5 Cycles.</p> | <p>There shall be no breakdown or flashover on the dielectric withstanding voltage test.</p>   |
| 9.9<br>Salt Spray    | <p>The specimen shall be subjected to a salt spray test of the following conditions. After the test, it shall be washed with running water and dried naturally before the measurement of contact resistance.</p> <p>Temperature: 35±2°C.<br/>Density: 5±1% in weight.<br/>Period: 48 hours.</p>                                  | <p>Appearance: no damage<br/>Contact Resistance: 40 mΩ Max.</p>  |



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| Item |                                    | Test Condition   | Requirement   |
|------|------------------------------------|--|---|
| 9.10 | Steam Aging                        | Steam Aging Temperature: 98±2°C<br>Period: 8 hours<br>Solder Temperature: 245±5°C<br>Soldering Time: 3±0.5 sec   | Appearance:<br>no damage<br><br>Plating surface<br>of solder<br>dripping section<br>of a specimen<br>shall be covered<br>with smooth<br>solder<br>(over 95%). |
| 9.11 | Solder ability                     | Fluxed soldering section of the specimen<br>shall be dipped in solder of the following<br>conditions<br><br>Solder: Sn-3Ag-0.5Cu<br>Flux: Activation flux<br>Temperature: 245 ± 5°C.<br>Immersion Period : 3 ± 0.5 Seconds | Plating surface<br>of solder<br>dripping section<br>of a specimen<br>shall be covered<br>with smooth<br>solder<br>(over 95%).                                 |
| 9.12 | Resistance To<br>Soldering<br>Heat | By reflow soldering:<br>The specimen shall be subjected to a reflow<br>soldering of the condition shown in the<br>graph below. After the test, the appearance<br>shall be observed.  | There shall be no<br>deformation or<br>damage which<br>may affect the<br>performance.   |



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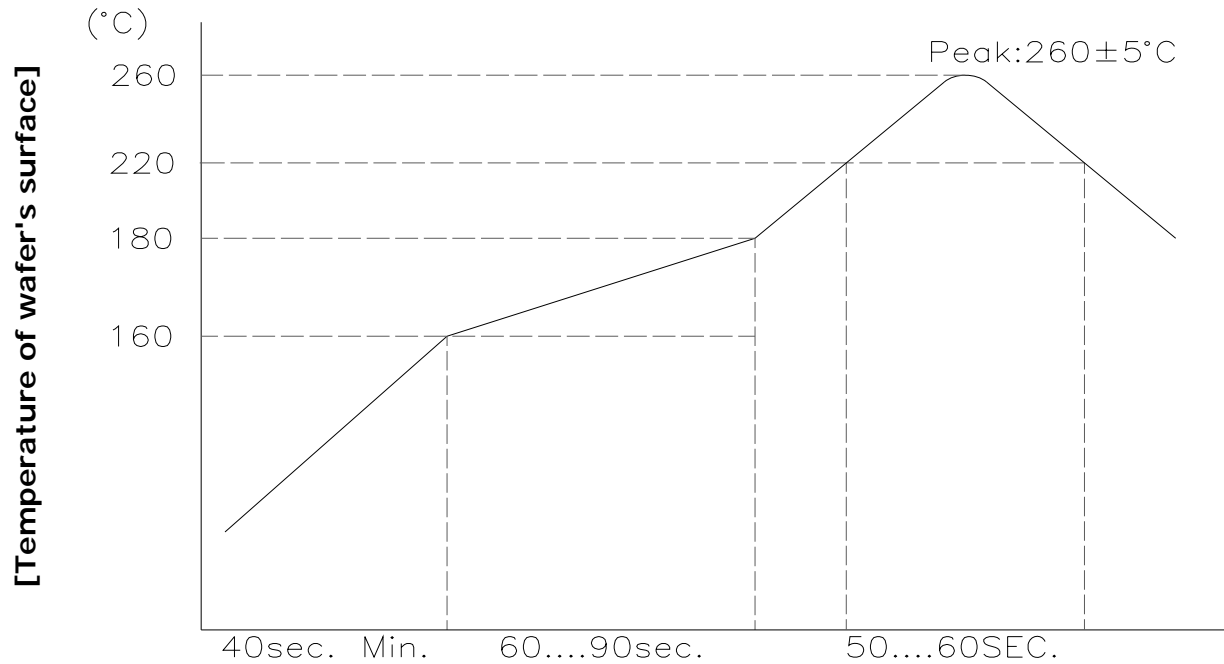
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## REFLOW CONDITION



[Temperature profile for reflow soldering]

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.  
No moisture treatment before reflow process.

### 10.0 Note:

1. ROHS Compliant
2. Please use it promptly after opening a package. The recommendation is within at 48 hours.





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## 11.0 ACTUATOR INSERTION/WITHDRAWAL FORCE AND FFC RETENTION FORCE (Unit: kgf)

| No. of<br>CKT | INSERTION FORCE<br>(Max.) |     |      | WITHDRAWAL FORCE<br>(Max.) |     |      | FFC RETENTION<br>FORCE (Min.) |       |
|---------------|---------------------------|-----|------|----------------------------|-----|------|-------------------------------|-------|
|               | 1st                       | 6th | 30th | 1st                        | 6th | 30th | 1st                           | 10th  |
| 6             | 3.1                       | 2.9 | 2.9  | 4.0                        | 3.6 | 3.6  | 0.70                          | 0.60  |
| 7             | 3.2                       | 3.0 | 3.0  | 4.1                        | 3.7 | 3.7  | 0.75                          | 0.65  |
| 8             | 3.3                       | 3.1 | 3.1  | 4.2                        | 3.8 | 3.8  | 0.80                          | 0.70  |
| 9             | 3.4                       | 3.2 | 3.2  | 4.3                        | 3.9 | 3.9  | 0.85                          | 0.75  |
| 10            | 3.5                       | 3.3 | 3.3  | 4.4                        | 4.0 | 4.0  | 0.90                          | 0.80  |
| 11            | 3.6                       | 3.4 | 3.4  | 4.5                        | 4.1 | 4.1  | 0.95                          | 0.85  |
| 12            | 3.7                       | 3.5 | 3.5  | 4.6                        | 4.2 | 4.2  | 1.00                          | 0.90  |
| 13            | 3.8                       | 3.6 | 3.6  | 4.7                        | 4.3 | 4.3  | 1.05                          | 0.95  |
| 14            | 3.9                       | 3.7 | 3.7  | 4.8                        | 4.4 | 4.4  | 1.10                          | 1.00  |
| 15            | 4.0                       | 3.8 | 3.8  | 4.9                        | 4.5 | 4.5  | 1.15                          | 1.05  |
| 16            | 4.1                       | 3.9 | 3.9  | 5.0                        | 4.6 | 4.6  | 1.20                          | 1.10  |
| 17            | 4.2                       | 4.0 | 4.0  | 5.1                        | 4.7 | 4.7  | 1.25                          | 1.15. |
| 18            | 4.3                       | 4.1 | 4.1  | 5.2                        | 4.8 | 4.8  | 1.30                          | 1.20  |
| 19            | 4.4                       | 4.2 | 4.2  | 5.3                        | 4.9 | 4.9  | 1.35                          | 1.25  |
| 20            | 4.5                       | 4.3 | 4.3  | 5.4                        | 5.0 | 5.0  | 1.40                          | 1.30  |
| 21            | 4.6                       | 4.4 | 4.4  | 5.5                        | 5.1 | 5.1  | 1.45                          | 1.35  |
| 22            | 4.7                       | 4.5 | 4.5  | 5.6                        | 5.2 | 5.2  | 1.50                          | 1.40  |
| 23            | 4.8                       | 4.6 | 4.6  | 5.7                        | 5.3 | 5.3  | 1.55                          | 1.45  |
| 24            | 4.9                       | 4.7 | 4.7  | 5.8                        | 5.4 | 5.4  | 1.60                          | 1.50  |
| 25            | 5.0                       | 4.8 | 4.8  | 5.9                        | 5.5 | 5.5  | 1.65                          | 1.55  |
| 26            | 5.1                       | 4.9 | 4.9  | 6.0                        | 5.6 | 5.6  | 1.70                          | 1.60  |
| 27            | 5.2                       | 5.0 | 5.0  | 6.1                        | 5.7 | 5.7  | 1.75                          | 1.65  |
| 28            | 5.3                       | 5.1 | 5.1  | 6.2                        | 5.8 | 5.8  | 1.80                          | 1.70  |
| 29            | 5.4                       | 5.2 | 5.2  | 6.3                        | 5.9 | 5.9  | 1.85                          | 1.75  |
| 30            | 5.5                       | 5.3 | 5.3  | 6.4                        | 6.0 | 6.0  | 1.90                          | 1.80  |



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## 12.0 Test Sequence and Sample Quantity:

| Test Items Vibration      | Group |      |     |     |     |     |     |     |     |   |     |     |     |
|---------------------------|-------|------|-----|-----|-----|-----|-----|-----|-----|---|-----|-----|-----|
|                           | A     | B    | C   | D   | E   | F   | G   | H   | I   | J | K   | L   | M   |
| Appearance                | 1,9   | 1,11 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,3 | 1 | 1,3 | 1,3 | 1,4 |
| Contact Resistance        | 2,6   | 3,8  | 2,4 | 2,4 | 2,4 | 2,4 | 2,4 | 2,4 |     |   |     |     |     |
| Insulation Resistance     | 3,7   |      |     |     |     |     |     |     |     |   |     |     |     |
| D.W. Voltage              | 4,8   |      |     |     |     |     |     |     |     |   |     |     |     |
| FFC Retention Force       |       | 5,9  |     |     |     |     |     |     |     |   |     |     |     |
| Actuator Insertion Force  |       | 2,7  |     |     |     |     |     |     |     |   |     |     |     |
| Actuator Withdrawal Force |       | 4,10 |     |     |     |     |     |     |     |   |     |     |     |
| Terminal Retention Force  |       |      |     |     |     |     |     |     | 2   |   |     |     |     |
| Durability                |       | 6    |     |     |     |     |     |     |     |   |     |     |     |
| Vibration                 |       |      | 3   |     |     |     |     |     |     |   |     |     |     |
| Shock (Mechanical)        |       |      |     | 3   |     |     |     |     |     |   |     |     |     |
| Heat Resistance           |       |      |     |     | 3   |     |     |     |     |   |     |     |     |
| Cold Resistance           |       |      |     |     |     | 3   |     |     |     |   |     |     |     |
| Salt Spray                |       |      |     |     |     |     | 3   |     |     |   |     |     |     |
| Thermal Shock             |       |      |     |     |     |     |     | 3   |     |   |     |     |     |
| Humidity                  | 5     |      |     |     |     |     |     |     |     |   |     |     |     |
| Temperature Rise          |       |      |     |     |     |     |     |     |     | 2 |     |     |     |
| Steam Aging               |       |      |     |     |     |     |     |     |     |   |     |     | 2   |
| Solder Ability            |       |      |     |     |     |     |     |     |     |   | 2   |     | 3   |
| Soldering Heat Resist     |       |      |     |     |     |     |     |     |     |   |     | 2   |     |
| Sample QTY.               |       |      |     |     |     |     |     |     |     |   |     |     |     |



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**13.0 Remark: Any change or revision for the product specification will not be announced in advance. Please contact our sales representative for the latest information.**