



# 喬訊電子工業股份有限公司

CHYAO SHIUNN ELECTRONIC INDUSTRIAL LTD.

7FL., NO.17, LANE 3, SEC.1 CHUNG CHENG EAST RD.,  
TAMSHUI, TAIPEI, TAIWAN, R.O.C.

TEL: 886-2-2629-9955 (REP) FAX: 886-2-2626-6677

http://www.chyaoshiunn.com.tw E-mail:cs@chyaoshiunn.com.tw

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| <b>Date Issued</b>  | <b>2004/01/20</b>            | <b>Data Revised</b>     | <b>2017/06/13</b>                       |
| Subject :JS-1149 JS-1149S JS-1149-T/TH JS-1148 JS-1148SJS-1148-T/TH Pitch : 4.20mm<br>( Dual-Row & Single-Row) Wire to Wire Power Connector Series. |                              |                         | <b>Issued By:<br/>Engineering Dept.</b> |

*This specification is referred to 4.20mm ( Dual-Row & Single-Row) series wire to wire Power connector.*

本規格書內容係提供 4.20 mm (迷你型插座組合 ; 雙排與單排)系列產品相關參考 ,  
其用途為電線端相接於電線端之動力電源連接器

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| REV. (版次) | Revision Record (改版變更原因)  | Date(日期)   | ECN No.       |
|-----------|---|------------|---------------|
| C         | 增加中文敘述 以及增加版次變更註記欄  | 2010/01/27 | EC2010-01-037 |
| D         | 增加JS-1149-TP/TP1 ; JS-1148-TP/TPL   | 2010/12/23 | EC2010-12-010 |
| E         | 鹽水噴霧週期以電鍍方式區隔為 8 小時與48 小時   | 2011/05/19 | EC2011-05-032 |
| F         | 增加 Thumb Latch Operation Force ; Thumb Latch Yield Force 兩項規格   | 2011/08/26 | EC2011-08-004 |
| G         | 增加 Polyamide 6 UL 94 V2 ; 增列 AWG 與電流對照 及額定電壓  | 2012/01/13 | EC2012-01-010 |
| H         | 新增 Female Crimp Terminal ( With AWG #20~24 is applied ) JS-1149-TPL   | 2012/04/11 | EC2012-04-014 |
| I         | P/N 增加(V0)選項  | 2013/11/01 | EC2013-11-001 |
| J         | 1 增訂 3.5 項 Storage of Package 以及 3.6 項 Floor Life<br>2. 6.1 項 Insertion & Withdrawal Force Table1. 增訂 3 & 5 Poles | 2014/04/17 | EC2014-04-017 |
| K         | 增訂 8.7 項 Cold 耐寒試驗  | 2014/12/31 | EC2014-12-031 |
| L         | 依 ECR-00000160 修改產品敘述   | 2016/10/21 | EC2016-10-021 |
| M         | 1增訂8.8項Salt Spray鹽水噴霧<br>2刪除BSI標示   | 2017/06/13 | EC2017-06-013 |



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**1.0 Product Name/Part Number & Drawing Number(產品名稱 / 產品型號及圖面型號):** Note: (xx) The number of the circuits

| Product Name(產品名稱)                               | Part Number(產品型號)   | Drawing Number(圖面型號) |
|--|---|----------------------|
| Female Crimp Terminal (With AWG #18~22 is        | JS-1149-T / PBTP  |                      |
| Female Crimp Terminal (With AWG #16 is applied)  | JS-1149-TH / PBTH   |                      |
| Female Crimp Terminal (With AWG #18~22 is        | JS-1149-TP / TP1  |                      |
| Female Crimp Terminal (With AWG #20~24 is        | JS-1149-TPL   |                      |
| Male Crimp Terminal (With AWG #18~22 is applied) | JS-1148-T/ PBTP / TP  |                      |
| Male Crimp Terminal (With AWG #16 is applied)    | JS-1148-TH / PBTH   |                      |
| Male Crimp Terminal (With AWG #20~24 is applied) | JS-1148-TPL   |                      |
| Receptacle (Double Row) 雙排插座                     | JS-1149-XXXX / JS-1149-XX(SM) / JS-1149-XX(V0)                |                      |
| Receptacle (Single Row) 單排插座                     | JS-1149S-XXXX / JS-1149S-XX(SM) / JS-1149S-XX(V0)             |                      |
| Plug (Double Row) 雙排插頭                           | JS-1148-XXXX / JS-1148-XX(SM) / JS-1148-XX(V0)                |                      |
| Plug (Single Row) 單排插頭                           | JS-1148S-XXXX / JS-1148S-XX(SM) / JS-1148S-XX(V0)             |                      |
| Plug (Without Ear ; Double Row) 雙排插頭 ; 無耳        | JS-1148-XXWO/EXX / JS-1148-XXWO/E(SM) / JS-1148-XXWO/E(V0)    |                      |
| Plug (Without Ear ; Single Row) 單排插頭 ; 無耳        | JS-1148S-XXWO/EXX / JS-1148S-XXWO/E(SM) / JS-1148S-XXWO/E(V0) |                      |

**2.0 Construction/Dimensions/Material & Surface Finish(材質以及表面鍍層):**

| Part Name(零件名稱)             | Material(材質)   | Surface Finish(表面鍍層)                                  |
|-----------------------------|----------------|---|
| Crimp Terminal<br>(柳壓端子)    | JS-1149-T / TH | Brass<br>(Stamping after tin plated 先電鍍後沖壓)           |
|                             | JS-1149-TP/TP1 | Brass<br>(Stamping before tin plated 先沖壓後電鍍)          |
|                             | JS-1149-PBTP   | Phosphor Bronze<br>(Stamping after tin plated 先電鍍後沖壓) |
|                             | JS-1149- PBTH  | Phosphor Bronze<br>(Stamping after tin plated 先電鍍後沖壓) |
|                             | JS-1148-T / TH | Brass<br>(Stamping before tin plated 先沖壓後電鍍)          |
|                             | JS-1148-TP/TPL | Brass<br>(Stamping before tin plated 先沖壓後電鍍)          |
|                             | JS-1148-PBTP   | Phosphor Bronze<br>(Stamping after tin plated 先電鍍後沖壓) |
|                             | JS-1148-PBTH   | Phosphor Bronze<br>(Stamping after tin plated 先電鍍後沖壓) |
| Plug (插頭) ; Receptacle (插座) | Polyamide 66   | UL 94V-2 or 94V-0                                     |
|                             | Polyamide 6    | UL 94V-2  |

**3.0 Characteristic(產品特性):**

| Item(項目)                                      | Standard(標準規範)   |   |                      |                       |                       |                       |                       |
|---|--|---|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 3.1 額定電流<br>Rated Current                     | Conductor Size   | AWG   | 16#                  | 18#                   | 20#                   | 22#                   | 24#                   |
|   |  | Area(mm <sup>2</sup> )                            | 1.31 mm <sup>2</sup> | 0.865 mm <sup>2</sup> | 0.534 mm <sup>2</sup> | 0.342 mm <sup>2</sup> | 0.220 mm <sup>2</sup> |
|   | Amp AC/DC  | 7 A   |                      | 5 A                   | 3 A                   | 2 A                   |                       |
| 3.2 額定電壓 Rated                                | 250 V AC/DC  |   |                      |                       |                       |                       |                       |
| 3.3 Ambient<br>Temperature Range<br>環境與操作溫度範圍 | (操作使用溫度與濕度範圍) Operating Temp. : -40°C~+105°C; 85% R.H. Max<br>Including 30°C Terminal Temperature Rise at rated Current ,<br>(包括定額電流內，端子所產生 30°C 以下溫昇) |   |                      |                       |                       |                       |                       |
| 3.4 Applicable Wire<br>適用電線                   | 3.4.1  | (金屬導體型號) Conductor Construction Size: AWG #16~#24 |                      |                       |                       |                       |                       |
|   | 3.4.2  | (電線絕緣材質外徑) Wire Insulation O.D.: 1.45mm~2.10mm    |                      |                       |                       |                       |                       |



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|     |                                |   |                |                              |
|-----|--------------------------------|---|----------------|------------------------------|
| 3.5 | Storage of Package<br>包裝未拆封之保存 | Temperature and Humidity Condition<br>溫濕度條件 |                | Temperature 溫度 : -10°C~+40°C |
|     |                                | Term 保存期限                                   | Housing        | 2 Years                      |
|     |                                |   | Crimp Terminal | 1 Year                       |
| 3.6 | Floor Life 拆封後使用期限             | Crimp Terminal                              |                | 3 Months                     |

Note: 嵌合面板適用厚度 Applicable Panel Thickness: 2.0 mm Max.

#### 4.0 Specimen(樣本圖示) :

| Part Name / Part Number / Picture or Photograph 零件名稱 / 零件型號 / 樣本圖示 |   |   |   |
|--|---|---|---|
| Female<br>Crimp Terminal<br>JS-1149-TXXXX                          |   | Male<br>Crimp Terminal<br>JS-1148-TXXXX           |   |
| Receptacle<br>Single-Row<br>JS-1149S-XX                            |  | Receptacle<br>Dual-Row<br>JS-1149-XX              |  |
| Plug<br>Single-Row with Ear<br>JS-1148S-XX                         |  | Plug<br>Dual-Row with Ear<br>JS-1148-XX           |  |
| Plug<br>Single-Row<br>without Ear<br>JS-1148S-XXWO/E               |  | Plug<br>Dual-Row<br>without Ear<br>JS-1148-XXWO/E |  |



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## 5.0 Applicable Standards(適用規範):

ANSI/EIA 364 ; ANSI/EIA/ECA 364 Testing method for electrical connectors.

電子連接器，所適用之 ANSI/EIA 364 ; ANSI/EIA/ECA364 測試規範

## 6.0 Mechanical Performance(機械性能):

| Item(項目) |   | Test Condition(測試條件)  | Requirement(規格)                                    |
|----------|---|---|--|
| 6.1      | <b>Insertion &amp; Withdrawal Force</b><br>插座與插頭<br>嵌入與拔出力                              | Insert and withdrawal with connectors at the speed rate of 25.4 ± 3mm/minute. 插頭與插座兩端勘合，以每一分鐘 25.4 ± 3 mm 的速率，作嵌入與拔出往返測試 (EIA/ECA 364-13D)<br><b>( Excluding Thumb Latch 不包含指壓活動卡榫結合力 )</b> | Refer to 9.0 Table1.<br>參照第 9 項 表格 9.1             |
| 6.2      | <b>Wire Pullout Force(Axial)</b><br>電線脫離端子包覆之<br>拔出力(軸向)                                | Pull out the cable from contact terminal at the speed rate of 25.4± 3 mm/minute.<br>對端子所包覆電線，施以每一分鐘 25.4 ± 3 mm 速率之軸向拔出力 (EIA 364-08B)  | AWG#16 size wire <b>9.0kgf/Min.(88.0N 牛頓)</b>      |
|          |   |   | AWG#18 size wire <b>8.0kgf/Min.(78.4N 牛頓)</b>      |
|          |   |   | AWG#20 size wire <b>6.0kgf/Min.(59.0N 牛頓)</b>      |
|          |   |   | AWG#22 size wire <b>4.0kgf/Min.(39.0N 牛頓)</b>      |
|          |   |   | AWG#24 size wire <b>3.0kgf/Min.(29.0N 牛頓)</b>      |
| 6.3      | <b>Crimp Terminal Retention Force</b><br>( in Receptacle or Plug)<br>插座或插頭與<br>柳線端子間拔出力 | Axial pullout force on the terminal in the Receptacle or Plug at the speed rate of 25.4 ± 3 mm per minute. 對於已經存在於插座或是插頭當中柳線端子，施以每一分鐘 25.4 ± 3 mm 速率之軸向拔出力 (EIA/ 364-05 )                   | 單一導體<br>Per Contact<br>最小容許值<br><b>3.0kgf/Min.</b> |
| 6.4      | <b>Panel Mount Retention</b><br>有耳插座與嵌合面板間<br>拔出力                                       | Full mate and then unmate the Connectors at a rate of 25.4± 3 mm per minute. 將插座緊密地嵌入面板當中，然後再以每一分鐘 25.4 ± 3 mm 速率將插座與面板脫離，並量測最終拔出力  | 最小容許值<br><b>16.0kgf/Min.</b>                       |
| 6.5      | <b>Thumb Latch Operation Force</b><br>指壓活動卡榫推進力   | Depress Latch at a Speed rate of 25.4 ± 3 mm per minute.<br>以每一分鐘 25.4 ± 3 mm 的速率，將活動卡榫推達定位   | 最大容許值<br><b>1.7kgf/Max</b>                         |
| 6.6      | <b>Thumb Latch Yield Force</b><br>指壓活動卡榫降伏力   | Mate loaded connectors fully. Pull connectors apart at the speed rate of 25.4± 3mm per minute. 將連接器兩端緊密互配，而後以每一分鐘 25.4 ± 3 mm 的速率，將活動卡榫拔出測試   | 最小容許值<br><b>6.9kgf/Min.</b>                        |



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## 7.0 Electrical Performance(電氣性能) :

| Item(項目)                                 | Test Condition(測試條件)  | Requirement(規格)   |
|--|---|---|
| 7.1<br>Contact Resistance<br>(低階信號) 接觸阻抗 | A maximum voltage of 20mV and a maximum current of 100mA are applied to the mate connector. 對組合狀態下連接器，於其兩端施以最大測試電壓 20mV 以及最大測試電流 100mA (EIA/ECA 364-23C)<br>( Does not include wire resistance 不包含電線阻抗 )  | Contact Resistance:<br><b>20 milliohms Max.</b><br>最大容許值. 20 毫歐姆            |
| 7.2<br>Insulation Resistance<br>絕緣阻抗     | Apply 500V D/C for 1 minute between adjacent contacts to measure the insulation resistance. 對相鄰兩接觸導體，於一分鐘時間內施予 500V D/C 電壓，並量測其間絕緣阻抗值 (EIA 364-21C)   | Insulation Resistance:<br><b>Initial 1000megohms Min</b><br>最初容許值. 1000 兆歐姆 |
| 7.3<br>Withstanding Voltage<br>耐電壓       | Apply <b>1500V A/C (rms)</b> for 1 minute and the leakage current shall not exceed <b>0.5mA</b> to the adjacent terminal and ground of the mate connectors. 對組合狀態下連接器，於其相鄰兩導體末端各施以電壓 <b>1500V A/C(實效值)</b> 時間 1 分鐘，且漏電流必須小於 <b>0.5mA(毫安培)</b> (EIA 364-20C) | No breakdown or<br>flashover.<br>無損毀或者產生火花                                  |

## 8.0 Environmental Performance(環境性能) :

| Item(項目)   | Test Condition(測試條件)  | Requirement(規格)  |
|--|---|--|
| 8.1<br>Durability<br>耐久性   | Mate Connectors up <b>50</b> Cycles at a Maximun rate of <b>10</b> cycles Per minute prior to environmental test (EIA/ECA 364-09C )<br>以組合狀態下連接器且未經環境測試，依每分鐘內進行 <b>10</b> 次嵌入與拔出之最大速率，連續 <b>50</b> 次嵌入與拔出往返測試 | (After the test)<br>Contact resistance :<br><b>40 mΩ Max</b><br>經耐久性試驗後接觸阻抗<br>最大容許值 40 毫歐姆      |
| 8.2<br>Temperature Rise<br>(Via Current Cycling)<br>溫度上昇<br>(經由電流循環操作) | Mate connector . measure the temperature rise of contact when the maximum rated current is passed<br>以組合狀態下連接器，通過最大容許電流 量測其導體溫度上昇值 (EIA 364-70B Conditions 1 . Method 1)                                      | Mate connectors<br><b>Temperature Rise:</b><br><b>+30°C/Max.</b><br>組合狀態下之連接器溫度上昇<br>最大容許值 +30°C |



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| Item(項目)                | Test Condition(測試條件)  | Requirement(規格)  |
|-------------------------|---|--|
| 8.3<br>Vibration<br>耐振動 | <p>A mated connector shall be mounted on a printed Circuit board and subjected to a vibration test of the following conditions.</p> <p>During the test, test current continuity shall be checked. After the test, contact resistance shall be measured.</p> <p>(EIA/ECA 364-28E-Condition 1)</p> <p>以組合狀態下連接器焊接於電路板作為試驗樣品,依照隨附如下規格要求,進行耐振動試驗,試驗過程中確認是否產生不連續電流(斷電)現象,並於試驗過後量測其接觸阻抗。</p> <p>Frequency(頻率): 10~55~10 Hz/minute.</p> <p>Amplitude (振幅): 1.5 mm P-P</p> <p>Direction (方向): 1. Axis of up and down.上下軸向(Y 軸)<br/>2. Axis of right the left. 左右軸向(X 軸)<br/>3. Axis of front and back.前後軸向(Z 軸)</p> <p>Period(週期): 2 hours for each direction. (每一個軸向持續 2 小時)</p> | <p>Initial Contact Resistance :<br/>20 milliohms Max.</p> <p>接觸阻抗最初容許值 20 毫歐姆</p> <p>(After the test)</p> <p>Contact Resistance:<br/>40 milliohms Max.</p> <p>經耐振動試驗後接觸阻抗<br/>最大容許值 40 毫歐姆</p>   |
| 8.4<br>Humidity<br>恆溫恆濕 | <p>A mated connector shall be placed in a humidity chamber of the following conditions. After the test, leave the specimen at room temperature for 1~2 hours before the contact resistance, the insulation resistance and the dielectric withstanding voltage shall be measured.</p> <p>(EIA 364-31B Conditions III . Method A)</p> <p>以組合狀態下連接器放置於恆定溫度與濕度的空間,依照隨附如下規格要求,進行恆溫恆濕試驗,經試驗過後將樣品置於室溫 1~2 小時,再量測其接觸阻抗、絕緣阻抗、以及耐電壓測試。</p> <p>Temperature(溫度): 40±2°C.</p> <p>Relative Humidity(相對濕度): 90%~95% (RH).</p> <p>Period(週期): 96 hours continuously. (持續 96 小時)</p>   | <p>(After the test)</p> <p>Contact Resistance:<br/>40milliohms Max.</p> <p>經恆溫恆濕試驗後接觸阻抗<br/>最大容許值 40 毫歐姆</p> <p>(After the test)</p> <p>Insulation Resistance :<br/>100Megohms Min.</p> <p>經恆溫恆濕試驗後絕緣阻抗<br/>最小容許值. 100 兆歐姆</p> <p>經恆溫恆濕試驗後測耐電壓</p> <p>(After the test)</p> <p>Withstanding Voltage:<br/>1500V A/C for 1 minute</p> |



# 喬訊電子工業股份有限公司

CHYAO SHIUNN ELECTRONIC INDUSTRIAL LTD.

7FL., NO.17, LANE 3, SEC.1 CHUNG CHENG EAST RD.,  
TAMSHUI, TAIPEI, TAIWAN, R.O.C.

TEL: 886-2-2629-9955 (REP) FAX: 886-2-2626-6677

http://www.chyaoshiunn.com.tw E-mail:cs@chyaoshiunn.com.tw

| Type Document   | Product Specification          | Revised /Edition  | M  |
|---|--------------------------------|---|--|
| Date Issued   | 2004/01/20                     | Data Revised  | 2017/06/13   |
| Subject : JS-1149 JS-1149S JS-1149-T/TH JS-1148 JS-1148SJS-1148-T/TH Pitch : 4.20mm<br>( Dual -Row & Single-Row) Wire to Wire Power Connector Series. |                                |   | Issued By:<br>Engineering Dept.  |
| Item(項目)  | Test Condition(測試條件)           |   | Requirement(規格)  |
| 8.5   | Thermal Shock<br>冷熱衝擊          | <p>A mated connector shall be subjected to a thermal shock test of the following conditions. After the test, leave the specimen at room temperature for 1~2 hours before the contact resistance, the insulation resistance and the dielectric withstanding voltage shall be measured.</p> <p>以組合狀態下連接器作為試驗樣品，依照隨附如下規格要求，進行冷熱衝擊試驗，經試驗過後將樣品置於室溫 1~2 小時，再量測其接觸阻抗、絕緣阻抗、以及耐電壓測試。</p> <p>One Cycle Consists Of: (EIA/ECA 364-32D)</p> <p><b>-55°C+0/-3°C for 30 minutes. → Room Temp. 5 minutes</b></p> <p><b>85°C+3/-0°C for 30 minutes. → Room Temp. 5 minutes</b></p> <p>Total Cycles: 5 Cycles. 以 -55°C+0/-3°C 溫度持續 30 分鐘，經室溫 5 分鐘，而後再以 85°C+3/-0°C 溫度持續 30 分鐘，再經室溫 5 分鐘，構成一次冷熱循環，總計循環次數 5 次。</p> | Same as paragraph 8.4<br>同 8.4 章節  |
| 8.6   | Thermal Aging<br>高溫老化試驗        | <p>A mated connector shall be placed in a heat oven of the following conditions. After the test, leave the specimen at room temperature for 1~2 hours before the contact resistance shall be measured. 以組合狀態下連接器放置於加熱烤箱當中，依照隨附如下規格要求，進行高溫老化試驗，經試驗過後將樣品置於室溫 1~2 小時，再量測其接觸阻抗。</p> <p>Temperature(溫度): 105±2°C. (EIA 364-17B)</p> <p>Period(週期): 96 hours continuously . (持續 96 小時)</p>  | <p>Initial Contact Resistance :<br/>20 milliohms Max.<br/>接觸阻抗最初容許值 20 毫歐姆</p> <p>(After the test)</p> <p>Contact Resistance :<br/><b>40milliohms Max.</b><br/>經高溫老化試驗後接觸阻抗<br/>最大容許值 40 毫歐姆</p>     |
| 8.7   | Cold 耐寒試驗<br>(Low Temperature) | <p>A mated connector shall be placed in a cold chamber of the following conditions. After the test, leave the specimen at room temperature for 1~2 hours before the contact resistance shall be measured. 以組合狀態下連接器放置於低溫空間內，依照隨附如下規格要求，進行耐寒試驗，經試驗過後將樣品置於室溫 1~2 小時，再量測其接觸阻抗。(EIA 364-59A Condition D ; Condition 3)</p> <p>Temperature(溫度): -40±3°C.</p> <p>Period(週期): 96 hours continuously . (持續 96 小時)</p>   | <p>Initial Contact Resistance :<br/>20 milliohms Max.<br/>接觸阻抗最初容許值 20 毫歐姆</p> <p>(After the test)</p> <p>Contact Resistance :<br/><b>40 milliohms Max. .</b><br/>經耐寒試驗後接觸阻抗 :<br/>最大容許值. 40 毫歐姆</p> |



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http://www.chyaoshiunn.com.tw E-mail:cs@chyaoshiunn.com.tw

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|---|------------------------------|-------------------------|---|
| <b>Type Document</b>  | <b>Product Specification</b> | <b>Revised /Edition</b> | <b>M</b>                                      |
| <b>Date Issued</b>  | <b>2004/01/20</b>            | <b>Data Revised</b>     | <b>2017/06/13</b>                             |
| <b>Subject : JS-1149 JS-1149S JS-1149-T/TH JS-1148 JS-1148SJS-1148-T/TH Pitch : 4.20mm</b><br><b>( Dual -Row &amp; Single-Row) Wire to Wire Power Connector Series.</b> |                              |                         | <b>Issued By:</b><br><b>Engineering Dept.</b> |

| Item(項目)                  | Test Condition(測試條件)   | Requirement(規格)  |
|---------------------------|--|--|
| 8.8<br>Salt Spray<br>鹽水噴霧 | <p>A mated connector shall be subjected to a Salt Spray test of the following conditions. After the test , the specimen shall be washed with running water and dried naturally before the measurement of contact resistance. 以組合狀態下連接器作為試驗樣品, 依照隨附如下規格要求, 進行鹽水噴霧試驗 , 試驗過後將樣品用清水沖洗並經過自然風乾 , 而後量測其接觸阻抗。(EIA 364-26B Conditions B)</p> <p>Density(鹽水密度) : 5 % in weight. Temperature(溫度) : 35±2°C.</p> <p>Period(週期): <b>Terminal or contact (Stamping after tin plated for 8 hours) ; Terminal or contact (Stamping before tin plated for 48 hours) 端子或導體 (先電鍍後沖壓 8 小時); 端子或導體 (先沖壓後電鍍 48 小時)</b></p> <p>Salt spray test only define the plating area,without plating area (as copper cross section) will not be defined. 鹽水噴霧測試只判定電鍍區域,無電鍍區域(如折斷面裸銅)則不做判定</p> | <p>Initial Contact Resistance :<br/><b>20 milliohms Max.</b><br/>接觸阻抗最初容許值 20 毫歐姆</p> <p>(After the test)<br/><b>Contact Resistance:</b><br/><b>40 milliohms Max.</b><br/>經鹽水噴霧試驗後接觸阻抗最大容許值 40 毫歐姆</p> |

Notes : Flowing Mixed Gas (EIA 364-65A) shall be conduct by Customer request 混合流動氣體測試遵照客戶需求

## 9.0 Tables & Attachments

9.1 Table 1. Insertion Force (I.F.) & Withdrawal Force (W.F.) for user reference:

| No. of Circuits<br>極數 | AT INITIAL<br>首次嵌入與拔出(初始值) |                   | AT 50 <sup>TH</sup><br>50 次嵌入與拔出之後 | No. of Circuits<br>極數 | AT INITIAL<br>首次嵌入與拔出(初始值) |                   | AT 50 <sup>TH</sup><br>50 次嵌入與拔出之後 |
|-----------------------|----------------------------|-------------------|------------------------------------|-----------------------|----------------------------|-------------------|------------------------------------|
|                       | I.F. (MAX)<br>嵌入力          | W.F. (MIN)<br>拔出力 | W.F. (MIN)<br>拔出力                  |                       | I.F. (MAX)<br>嵌入力          | W.F. (MIN)<br>拔出力 | W.F. (MIN)<br>拔出力                  |
|                       | 02                         | 3.00              | 0.20                               |                       | 0.15                       | 12                | 18.00                              |
| 03                    | 4.50                       | 0.30              | 0.23                               | 14                    | 21.00                      | 1.40              | 1.05                               |
| 04                    | 6.00                       | 0.40              | 0.30                               | 16                    | 24.00                      | 1.60              | 1.20                               |
| 05                    | 7.50                       | 0.50              | 0.38                               | 18                    | 27.00                      | 1.80              | 1.35                               |
| 06                    | 9.00                       | 0.60              | 0.45                               | 20                    | 30.00                      | 2.00              | 1.50                               |
| 08                    | 12.00                      | 0.80              | 0.60                               | 22                    | 33.00                      | 2.20              | 1.65                               |
| 10                    | 15.00                      | 1.00              | 0.75                               | 24                    | 36.00                      | 2.40              | 1.80                               |

Unit : kg/f

10.0Remark(備註) : Any change or revision for the product specification will not be announced in advance.

Please contact our sales representative for the latest information.

有關規格書內容經變更或改版, 如未能夠及時發佈與通知, 煩請連絡我司業務人員以提供產品最新資訊

Reviewed: J.M.Chang Approved: Peter Chang Verified: Indiana Huang