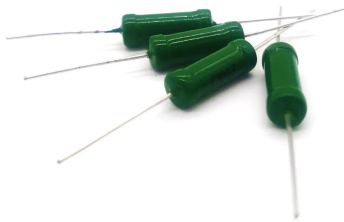
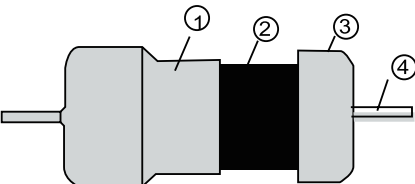


耐高壓衝擊固定電阻器

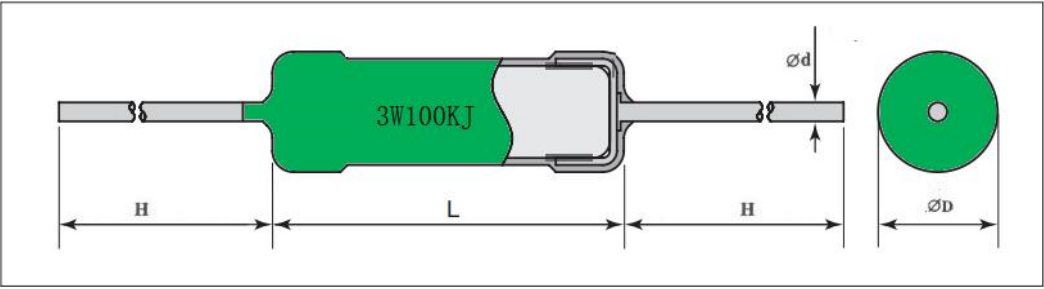


結構圖 Construction



|   |      |                    |
|---|------|--------------------|
| 1 | 絕緣塗料 | Insulation coating |
| 2 | 電阻體  | Ceramic core       |
| 3 | 鐵帽   | End cap            |
| 4 | 銅線   | Copper wire        |

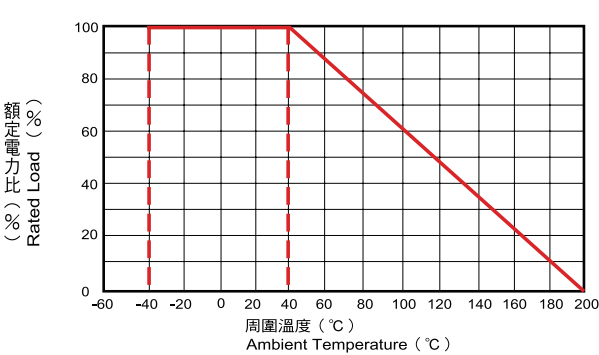
尺寸 Dimension



特點 Features

- 優良的抗高壓浪湧電流特性  
Excellent characteristic against high voltage surge current.
- 阻值公差： $\pm 10\%$ ， $\pm 20\%$   
Resistance tolerance： $\pm 10\%$ ， $\pm 20\%$

負載遞減曲線 Power Derating Curve



Unit : mm

| 額定功率<br>Power Rating | 尺寸 Dimensions<br>引出線型 |       |          |     | 備註      | 額定功率<br>Power Rating | 尺寸 Dimensions<br>螺帽型 |       |     |         | 備註      |
|----------------------|-----------------------|-------|----------|-----|---------|----------------------|----------------------|-------|-----|---------|---------|
|                      | ØD max                | L max | Ød       | H±3 |         |                      | ØD max               | L max | Ød  | 螺旋杆长度±3 |         |
| 1W                   | 6                     | 18    | 0.8±0.10 | 30  | Ø5×16   | ---                  | ---                  | ---   | --- | ---     | ---     |
| 2W                   | 8.5                   | 25    | 0.8±0.10 | 30  | Ø7×23   | ---                  | ---                  | ---   | --- | ---     | ---     |
| 3W                   | 8.5                   | 25    | 0.8±0.10 | 30  | Ø7×23   | ---                  | ---                  | ---   | --- | ---     | ---     |
| 5W                   | 8.5                   | 33    | 1.0±0.10 | 30  | Ø7×30   | ---                  | ---                  | ---   | --- | ---     | ---     |
| 7W                   | 8.5                   | 42    | 1.0±0.10 | 30  | Ø7×38   | 5W                   | 12                   | 55    | M4  | 6       | Ø7×38   |
| 10W                  | 8.5                   | 55    | 1.0±0.10 | 30  | Ø7×51   | 10W                  | 12                   | 80    | M4  | 6       | Ø7×51   |
| 15W                  | 12                    | 75    | 1.0±0.10 | 30  | Ø10×70  | 20W                  | 12                   | 130   | M4  | 6       | Ø10×70  |
| 25W                  | 12                    | 125   | 1.0±0.10 | 30  | Ø10×115 | 25W                  | 12                   | 125   | M4  | 6       | Ø10×115 |
| 30W                  | 12                    | 130   | 1.0±0.10 | 30  | Ø10×125 | 30W                  | 12                   | 130   | M4  | 6       | Ø10×125 |
| 50W                  | 12                    | 160   | 1.0±0.10 | 30  | Ø10×150 | 50W                  | 12                   | 160   | M4  | 6       | Ø10×150 |

## 耐高壓沖擊固定電阻器

### 規格 Specifications

| 種類<br>Type | 定格電力<br>Rated power | 最大工作電壓<br>Max Working Voltage(KV) | 耐電壓<br>Dielectric withstanding voltage(V) | 阻值範圍(Ω)<br>Resistance Range(Ω) |
|------------|---------------------|-----------------------------------|---|--------------------------------|
| HPC        | 1W                  | 1.5                               | 350                                       | 100KΩ~1MΩ                      |
|            | 2W                  | 2.5                               | 350                                       | 100KΩ~10MΩ                     |
|            | 3W                  | 6                                 | 500                                       | 100KΩ~300MΩ                    |
|            | 5W                  | 15                                | 500                                       | 100KΩ~820MΩ                    |
|            | 7W                  | 20                                | 500                                       | 100KΩ~1GΩ                      |
|            | 10W                 | 25                                | 500                                       | 100KΩ~1GΩ                      |
|            | 20W                 | 35                                | 500                                       | 100KΩ~1GΩ                      |
|            | 25W                 | 45                                | 500                                       | 100KΩ~1GΩ                      |
|            | 30W                 | 45                                | 500                                       | 100KΩ~1GΩ                      |
|            | 50W                 | 45                                | 500                                       | 100KΩ~1GΩ                      |

### 品名構成 Product Identification

HPC

種類

Type

1W

額定功率

Power Rating

|    |     |
|----|-----|
| 1W | 10W |
| 2W | 20W |
| 3W | 25W |
| 5W | 30W |
| 7W | 50W |

100K

公稱電阻值

Nominal Resistance Value

|             |
|-------------|
| E-24 Series |
| E-96 Series |

K

電阻值容許誤差

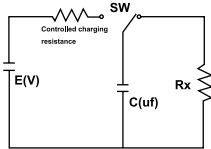
Resistance Tolerance

|      |      |
|------|------|
| K    | M    |
| ±10% | ±20% |

### 特性 Characteristics

| 特性項目<br>Item                             | 規格值<br>Performance  | 試驗方法(依據 JIS C 5201-1)<br>Test Methods (Conform to JIS C 5201-1)  |
|--|---|--|
| 溫度係數<br>Temperature Coefficients         | ±250PPM   | 4.8 項參照 Comply with 4.8<br>$\frac{R_1 - R_0}{R_0(T_1 - T_0)} \times 10^6 (\text{PPM}/^\circ\text{C})$ R <sub>0</sub> : 室溫(T <sub>0</sub> )所測量之電阻值。<br>R <sub>1</sub> : 室溫+100°C(T <sub>1</sub> )後所測量之電阻值。<br>R <sub>0</sub> : Resistance value at room temp(T <sub>0</sub> ).<br>R <sub>1</sub> : Resistance value at room temp plus 100°C(T <sub>1</sub> ). |
| 短時間過負荷<br>Short Time Overload            | ±(2.5%+0.05Ω)以內。<br>不得有機械的損傷。<br>Within ±(2.5%+0.05Ω).<br>No evidence of mechanical damage. | 4.13 項參照 Comply with 4.13<br>額定電壓 ×2.5 倍 5 秒，<br>不可超過最高過負荷電壓。<br>Rated voltage ×2.5 times 5s,<br>But not to exceed maximum overload voltage.   |
| 焊錫附著性<br>Solderability                   | 電極至少 95%以上新錫覆蓋。<br>Electrode with new solder<br>by 95% at least.                            | 4.17 項參照 Comply with 4.17<br>焊錫溫度：245±5°C<br>浸錫時間：3~5 秒<br>Test temperature of solder：245±5°C<br>Dipping time in solder：3~5 seconds  |
| 焊錫耐熱性<br>Resistance to<br>Soldering Heat | ±(1%+0.05Ω)以內。<br>不得有機械的損傷。<br>Within ±(1%+0.05Ω)<br>No evidence of mechanical damage.      | 4.18 項參照 Comply with 4.18<br>260±5°C，10±1.0 秒，試驗後放置半小時。<br>260±5°C,10±1.0 seconds, After test leave for 0.5h.  |
| 耐濕負荷壽命<br>Load Life in Humidity          | ±(5%+0.1Ω)以內。<br>Within ±(5%+0.1Ω)  | 4.24 項參照 Comply with 4.24<br>40±2°C，濕度 90~95%，1000 小時<br>定格電壓(90 分鐘 ON，30 分鐘 OFF)。<br>40±2°C,90 to 95%RH,1000h<br>Rated voltage (90 min ON,30 min OFF).  |

## 耐高壓沖擊固定電阻器

|                                    |   |  |
|------------------------------------|---|--|
| 負荷壽命<br>Load Life                  | $\pm(5\%+0.1\Omega)$ 以內。<br>Within $\pm(5\%+0.1\Omega)$   | 4.25.1 項參照 Comply with 4.25.1<br>70 $\pm$ 3°C, 1000 小時, 定格電壓(90 分鐘 ON, 30 分鐘 OFF)。<br>70 $\pm$ 3°C, 1000h, Rated voltage (90 min ON, 30 min OFF).  |
| 溫度循環<br>Temperature Cycle          | $\pm(1\%+0.05\Omega)$ 以內。<br>不得有機械的損傷。<br>Within $\pm(1\%+0.05\Omega)$<br>No evidence of mechanical damage. | 4.19 項參照 Comply with 4.19<br>低溫側: -55°C/30 分, 室溫: 3 ~ 5 分鐘<br>高溫側: +155°C/30 分, 室溫: 3 ~ 5 分鐘 5 回<br>Low side: -55°C/30min, Room temp: 3 to 5min<br>High side: +155°C/30min, Room temp: 3 to 5min 5cycles     |
| 衝擊耐壓<br>Surge Withstanding Voltage | 無燒損或絕緣性破壞<br>No flashover or Insulation damage.   | 加入適當電壓 2.5 秒 ON,<br>2.5 秒 OFF, 循環 10 次<br>Add to suitable voltage<br>2.5 seconds ON, 2.5<br>seconds OFF, for 10 times<br> |

\*可依客戶要求測試 IEC/GB 標準

|                      |  |                        |                                 |            |     |
|----------------------|--|------------------------|---------------------------------|------------|-----|
| 公司名稱<br>Company Name | 彩源企業股份有限公司<br>TZAI YUAN ENTERPRISE CO., LTD.               |                        |                                 |            |     |
| 品 名<br>Product Name  | 耐高壓沖擊固定電阻器<br>High voltage impact resistant fixed resistor |                        |                                 |            |     |
| 版 本<br>Version       | A0 版   | 制定日期<br>Enactment Date | 2019 年 09 月 22 日<br>Sep.22,2019 | 頁數<br>Page | 7-1 |

## 1. 一般事項 General

### 1.1 適用 Scope

本承認書適用於 彩源企業股份有限公司 製造之[耐高壓沖擊固定電阻器]。

This acknowledgment is applicable to the High Voltage Impulse Resistant Fixed Resistor manufactured by Caiy Enterprise Co., Ltd.

### 1.2 形名(例) Type designation (example)

依使用種類、額定電力、公稱電阻值、容許誤差及型狀而區別,其構造如下。

The type designation shall be in the following form and as specified.

| HPC         | 3W                  | 1M                                   | K                                  | P          |
|-------------|---------------------|--------------------------------------|------------------------------------|------------|
| 種 類<br>Type | 額定電力<br>Rated power | 公稱電阻值<br>Nominal resistance<br>value | 電阻值容許誤差<br>Resistance<br>tolerance | 形狀<br>Form |
|             | 1W                  |                                      | G ±2%                              | P 型 P Type |
|             | 2W                  |                                      | J ±5%                              |            |
|             | 3W                  |                                      | K ±10%                             |            |
|             | 5W                  |                                      |                                    |            |
|             | 7W                  |                                      |                                    |            |
|             | 10W                 |                                      |                                    |            |
|             | 20W                 |                                      |                                    |            |
|             | 25W                 |                                      |                                    |            |
|             | 30W                 |                                      |                                    |            |
|             | 50W                 |                                      |                                    |            |

### 1.3 額定電力 Rated power

額定電力係應在周圍溫度 40℃ 可以連續負載的最大電力, 如表-1;但周圍溫度如超過 40℃ 時之額定電力則依圖一的電力遞減曲線實施。

Rated power is maximum power which can be continuously loaded at specified ambient temperature 40℃,as Table-1;however when the ambient temperature exceeds 40℃,rated power should be determined from the derating curve of Fig.1.

②1R 以下無法承受大電流, 1R 以下 (含 1R) 建議用 KNP/NKNP 繞線電阻

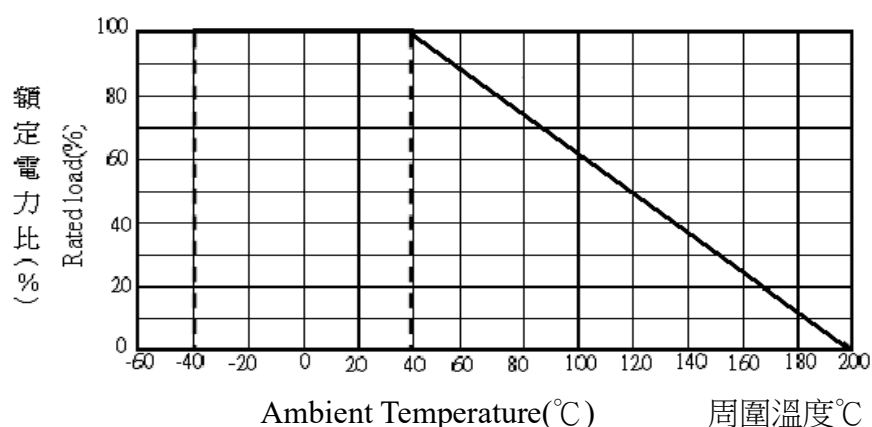
② Large currents below 1R cannot withstand large currents. KNP/NKNP winding resistors are recommended those below 1R (including 1R)

|                      |  |                        |                                 |            |     |
|----------------------|--|------------------------|---------------------------------|------------|-----|
| 公司名稱<br>Company Name | 彩源企業股份有限公司<br>TZAI YUAN ENTERPRISE CO., LTD.               |                        |                                 |            |     |
| 品 名<br>Product Name  | 耐高壓沖擊固定電阻器<br>High voltage impact resistant fixed resistor |                        |                                 |            |     |
| 版 本<br>Version       | A0 版   | 制定日期<br>Enactment Date | 2019 年 09 月 22 日<br>Sep.22,2019 | 頁數<br>Page | 7-2 |

表-1 Table-1

| 種類   | 定格電力        | 最大工作電壓                  | 耐電壓                                | 阻值範圍(Ω)             |
|------|-------------|-------------------------|------------------------------------|---------------------|
| Type | Rated power | Max Working Voltage(KV) | Dielectric withstanding voltage(V) | Resistance Range(Ω) |
| HPC  | 1W          | 1.5                     | 350                                | 100KΩ~1MΩ           |
|      | 2W          | 2.5                     | 350                                | 100KΩ~10MΩ          |
|      | 3W          | 6                       | 500                                | 100KΩ~300MΩ         |
|      | 5W          | 15                      | 500                                | 100KΩ~820MΩ         |
|      | 7W          | 20                      | 500                                | 100KΩ~1GΩ           |
|      | 10W         | 25                      | 500                                | 100KΩ~1GΩ           |
|      | 20W         | 35                      | 500                                | 100KΩ~1GΩ           |
|      | 25W         | 45                      | 500                                | 100KΩ~1GΩ           |
|      | 30W         | 45                      | 500                                | 100KΩ~1GΩ           |
|      | 50W         | 45                      | 500                                | 100KΩ~1GΩ           |

電力遞減曲線 Figure 1 Power derating curve



#### 1.4 額定電壓 Rated voltage

額定電壓係指對應於額定電力的直流或交流(商用頻率之有效值)的電壓,由下式求得。

The rated voltage shall be the D.C. or A.C.(R.M.S. at power frequency) voltage which corresponds the rated power and the value of which is calculated from the formula below.

$$E = \sqrt{P \times R}$$

Where E: 定格電壓 Rated voltage(V)  
P: 定格電力 Rated power(W)  
R: 公稱電阻值 Nominal resistance(Ω)

\*最大工作電壓 (Max Working Voltage) =  $\sqrt{P \times R}$

\*最高負荷電壓 (Max Overload Voltage) =  $E \times 2.5$

|                      |  |                        |                                 |            |     |
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| 品 名<br>Product Name  | 耐高壓沖擊固定電阻器<br>High voltage impact resistant fixed resistor |                        |                                 |            |     |
| 版 本<br>Version       | A0 版   | 制定日期<br>Enactment Date | 2019 年 09 月 22 日<br>Sep.22,2019 | 頁數<br>Page | 7-3 |

## 2. 構造 Construction

### 2.1 外形尺寸 External dimensions

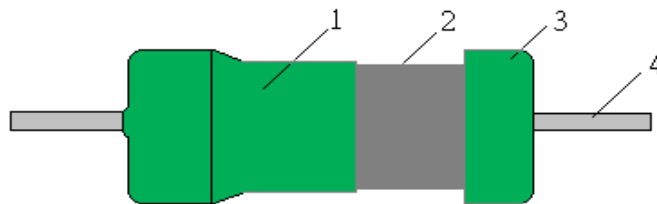
參照本承認書的 [5. 外形尺寸]。

The dimensions shall be satisfied with [5. External dimensios].

### 2.2 構造圖 Structure diagram

HPC 系列之耐高壓沖擊固定電阻器係按下表的材料而構成:

The construction of resistor (HPC series) shall be as follows:



| 號碼<br>NO | 構造名稱<br>Item               | 內 容<br>Material   |
|----------|----------------------------|---|
| 1        | 上塗塗裝<br>Finishing painting | 使用絕緣塗料。<br>Insulation resin is used.  |
| 2        | 電阻體<br>Resistor element    | 電阻體的成份係使用高壓玻璃釉。<br>The composition of the resistor is made of high-pressure glass glaze |
| 3        | 端子<br>Terminal             | 鐵帽<br>Tinned iron cap.  |
| 4        | 導線<br>Lead wire            | 鍍錫線或螺帽型<br>Tinned wire or nut type  |

### 2.3 鐵帽端子 Terminal caps

鐵帽端子須確實地連接(電氣的及機械的)於電阻體上。

The caps shall be securely connected with the resistor element electrically and mechanically.

### 2.4 外裝色澤 Resistor body color

以‘綠色’表示。

The type in ‘green’ color.

### 2.5 表示 Indication

參照實物標識。Reference to product marking.

|                      |  |                        |                                 |            |     |
|----------------------|--|------------------------|---------------------------------|------------|-----|
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| 品 名<br>Product Name  | 耐高壓沖擊固定電阻器<br>High voltage impact resistant fixed resistor |                        |                                 |            |     |
| 版 本<br>Version       | A0 版   | 制定日期<br>Enactment Date | 2019 年 09 月 22 日<br>Sep.22,2019 | 頁數<br>Page | 7-4 |

### 3. 特性 Characteristics

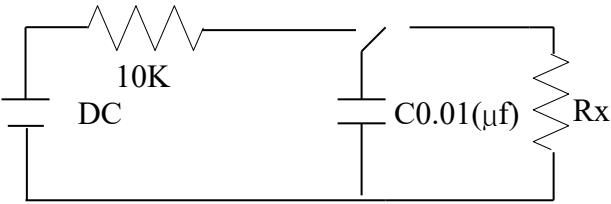
表-2 Table-2

| 項 目<br>Item                                  | 規格值<br>Performance  | 試驗方法(依據 JIS C 5201-1)<br>Test methods(Conform to JIS C 5201-1)  |
|--|---|---|
| 溫度係數<br>Temperature<br>Coefficient           | ±250PPM   | 4.8 項參照 Comply with 4.8<br>Comply with 5.2<br>$\frac{R_1 - R_0}{R_0(T_1 - T_0)} \times 10^6 (\text{PPM}/^\circ\text{C})$<br>R <sub>0</sub> :室溫(T <sub>0</sub> )所測量之電阻值。<br>R <sub>1</sub> :室溫+100℃(T <sub>1</sub> )後所測量之電阻值。<br>R <sub>0</sub> :Resistance value at room temp.( T <sub>0</sub> ).<br>R <sub>1</sub> :Resistance value at room temp.plus 100℃(T <sub>1</sub> ) |
| 短時間過負荷<br>Short time<br>overload             | ±(2.5%+0.05Ω)以內。<br>不得有機械的損傷。<br>Within ±(2.5%+0.05Ω).<br>No evidence of mechanical<br>damage.                      | 4.13 項參照 Comply with 4.13<br>定格電力×2.5 倍,5 秒。<br>不可超過最高過負荷電壓(見表-1)<br>Rated power×2.5 times,5s<br>But not to exceed maximum overload voltage.<br>(See table-1)   |
| 焊錫附著性<br>Solderability                       | 導線至少 95%以上新錫覆蓋。<br>Covered with new solder by<br>95% at least.  | 4.17 項參照 Comply with 4.17<br>焊錫溫度：260±5℃。<br>浸錫時間：10±1 秒。<br>Test temperature of solder: 260±5℃<br>Dipping time in solder: 10±1s  |
| 耐電壓<br>Dielectric<br>Withstanding<br>Voltage | 無電弧放電、燒損及絕緣<br>破壞等異狀。<br>No evidence of flashover<br>mechanical damage, arcing<br>or insulation breakdown.          | 4.7 項參照 Comply with 4.7<br>常壓,置於 V 型槽方法。<br>施加個別規定之交流電壓 60 秒。(見表-1)<br>Constant pressure, V-block method<br>Resistor shall be tested at AC potential<br>respectively for 60 seconds.<br>(See table-1)   |
| 保存條件<br>Preservation<br>condition            | 溫度:25±10℃, 濕度 60±20 RH%<br>保存期限: 2 年<br>Temperature: 25±10℃,<br>Humidity: 60±20 RH%<br>Preservation time: Two years |   |

|   |  |  |                                 |                                |                |
|---|--|--|---------------------------------|--------------------------------|----------------|
| 公司名稱<br>Company Name  |  | 彩源企業股份有限公司<br>TZAI YUAN ENTERPRISE CO., LTD.   |                                 |                                |                |
| 品 名<br>Product Name   |  | 耐高壓沖擊固定電阻器<br>High voltage impact resistant fixed resistor   |                                 |                                |                |
| 版 本<br>Version  | A0 版   | 制定日期<br>Enactment Date   | 2019 年 09 月 22 日<br>Sep.22,2019 | 頁數<br>Page                     | 7-5            |
| 項 目<br>Item   | 規格值<br>Performance   | 試驗方法(依據 JIS C 5201-1)<br>Test methods(Conform to JIS C 5201-1)   |                                 |                                |                |
| 端子強度<br>Terminal strength   | 端子不得斷裂及鬆弛。<br>No evidence of mechanical damage.  | 4.16 項參照 Comply with 4.16  |                                 |                                |                |
|   |  | 引張強度<br>Tensile strength   | 線徑 mm<br>Diameter               | 引張力<br>Tensile force<br>N(kgf) | 時 間<br>Time    |
|   |  |  | Φ0.3mm~0.5mm                    | 5(0.51)                        | 10±1<br>second |
|   |  |  | Φ0.5mm~0.8mm                    | 10(1.02)                       |                |
|   |  |  | Φ0.8mm~4mm                      | 20(2.04)                       |                |
| 扭轉強度： 自電阻體起約 6mm~6.5mm 處之端子線，以約0.75mm 曲率半徑彎曲 90 度,其次由彎曲處向端子線先端 1.2±0.4mm 處挾定端子引出軸,作回轉軸,以約 5 秒時間沿直面回轉 360°再逆轉 360°,如此施行回逆轉 2 次,不可發生折斷及鬆動現象。<br>Torsional strength： To bend the lead wire at the point of about 6mm~6.5mm from resistor body. about 0.75mm curvature radii to 90°then catch the wire at 1.2±0.4mm apart from the bend point end and turn it ( clockwise ) by 360 degrees perpendicular to the resistor axis at speed of same 5 seconds per turn, and do the same counterclockwise again which constitute a whole turn. Repeat the turn for 2 times without causing any break and looseness. |  |  |                                 |                                |                |
| 焊錫耐熱性<br>Resistance to soldering heat   | ±(1%+0.05Ω)以內。<br>不得有機械的損傷。<br>Within ±(1%+0.05Ω)<br>No evidence of mechanical damage. | 4.18 項參照 Comply with 4.18<br>260±5℃, 10±1.0 秒, 試驗後放置半小時。<br>260±5℃, 10±1.0 秒, After test leave for 0.5h. |                                 |                                |                |



|                      |  |                        |                                 |            |     |
|----------------------|--|------------------------|---------------------------------|------------|-----|
| 公司名稱<br>Company Name | 彩源企業股份有限公司<br>TZA YUAN ENTERPRISE CO., LTD.                |                        |                                 |            |     |
| 品 名<br>Product Name  | 耐高壓沖擊固定電阻器<br>High voltage impact resistant fixed resistor |                        |                                 |            |     |
| 版 本<br>Version       | A0 版   | 制定日期<br>Enactment Date | 2019 年 09 月 22 日<br>Sep.22,2019 | 頁數<br>Page | 7-6 |

| 項 目<br>Item                        | 規格值<br>Performance  | 試驗方法(依據 JIS C 5201-1)<br>Test methods(Conform to JIS C 5201-1)  |
|------------------------------------|---|---|
| 溫度循環<br>Temperature cycle          | $\pm(1\%+0.05\Omega)$ 以內。<br>不得有機械的損傷。<br>Within $\pm(1\%+0.05\Omega)$<br>No evidence of mechanical damage. | 4.19 項參照 Comply with 4.19<br>低溫側：- 55°C/30 分, 室溫：3~ 5 分鐘<br>高溫側：+155°C/30 分, 室溫：3~ 5 分鐘, 5 回<br>Low side：- 55°C/30min, Room temp.：3 to 5min<br>High side：155°C/30min, Room temp.：3 to 5min , 5 cycles   |
| 耐濕負荷壽命<br>Load life in humidity    | $\pm(5\%+0.1\Omega)$ 以內。<br>Within $\pm(5\%+0.1\Omega)$   | 4.24 項參照 Comply with 4.24<br>40±2°C, 濕度 90~95%, 1000 小時<br>定格電壓(90 分鐘 ON, 30 分鐘 OFF)<br>40±2°C, 90 to 95%RH, 1000h<br>Rated voltage (90 min ON, 30 min OFF)   |
| 負荷壽命<br>Load life                  | $\pm(5\%+0.1\Omega)$ 以內。<br>Within $\pm(5\%+0.1\Omega)$   | 4.25 項參照 Comply with 4.25<br>70±3°C, 1000 小時 70±3°C, 1000h<br>定格電壓(90 分鐘 ON, 30 分鐘 OFF)<br>Rated voltage (90 min ON, 30 min OFF)  |
| 衝擊耐壓<br>Surge Withstanding Voltage | 無燒損或絕緣性破壞<br>No flashover or Insulation damage.   | 加入適當電壓 2.5 秒 ON, 2.5 秒 OFF. 循環 10 次(見附表一)<br>Add to suitable voltage 2.5 seconds ON, 2.5 sconds OFF, for 10 times.( See table-1)<br>附表一 table-1<br>Controlled charging Resistance S.W<br> |

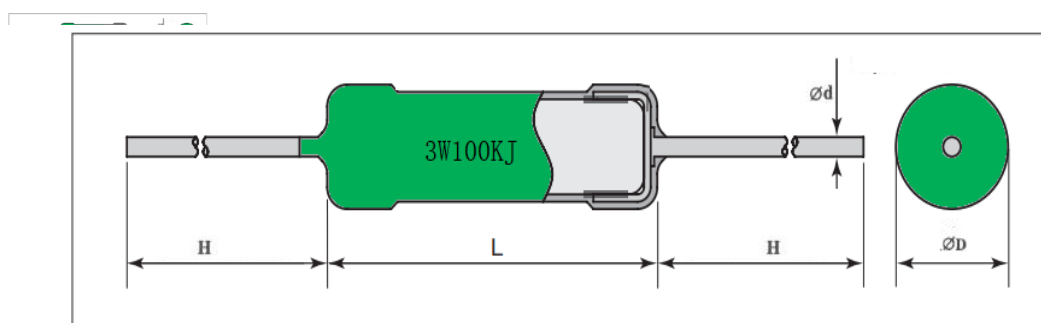
PS：適用周圍溫度 70°C 以下的場合，如周圍溫度超過 70°C 時請參考電力功率遞減曲線減小；另外，考慮到外界使用條件環境因素及其他不穩定影響，建議設計使用時以 50~60% 的安全係數考量。

PS: Suitable for the specified ambient temperature below 70°C, as the specified ambient temperature exceeds 70°C, please refer to the below power decline curve to reduce; in addition, considering the external use conditions and environmental factors and other unstable influences, it is recommended to consider the safety factor of 50 to 60% when designing and using.

|                      |  |                        |                                 |            |     |
|----------------------|--|------------------------|---------------------------------|------------|-----|
| 公司名稱<br>Company Name | 彩源企業股份有限公司<br>TZAI YUAN ENTERPRISE CO., LTD.               |                        |                                 |            |     |
| 品 名<br>Product Name  | 耐高壓沖擊固定電阻器<br>High voltage impact resistant fixed resistor |                        |                                 |            |     |
| 版 本<br>Version       | A0 版   | 制定日期<br>Enactment Date | 2019 年 09 月 22 日<br>Sep.22,2019 | 頁數<br>Page | 7-7 |

4. 外形寸法 External dimensions  
P 型 P type

綠色本體 The green body



單位：mm  
Unit：mm

| 額定功率         | 尺 寸 Dimensions 引出線型 |      |          |     | 備註      | 額定功率         | 尺 寸 Dimensions 螺帽型 |      |    |             | 備註      |
|--------------|---------------------|------|----------|-----|---------|--------------|--------------------|------|----|-------------|---------|
| Power Rating | ØDmax               | Lmax | Ød       | H±3 |         | Power Rating | ØDmax              | Lmax | Ød | 螺旋杆<br>長度±3 |         |
| 1W           | 6                   | 18   | 0.8±0.10 | 30  | Ø5×16   |              |                    |      |    |             |         |
| 2W           | 8.5                 | 25   | 0.8±0.10 | 30  | Ø7×23   |              |                    |      |    |             |         |
| 3W           | 8.5                 | 25   | 0.8±0.10 | 30  | Ø7×23   |              |                    |      |    |             |         |
| 5W           | 8.5                 | 33   | 1.0±0.10 | 30  | Ø7×30   |              |                    |      |    |             |         |
| 7W           | 8.5                 | 42   | 1.0±0.10 | 30  | Ø7×38   | 5W           | 12                 | 55   | M4 | 6           | Ø7×38   |
| 10W          | 8.5                 | 55   | 1.0±0.10 | 30  | Ø7×51   | 10W          | 12                 | 80   | M4 | 6           | Ø7×51   |
| 15W          | 12                  | 75   | 1.0±0.10 | 30  | Ø10×70  | 20W          | 12                 | 130  | M4 | 6           | Ø10×70  |
| 25W          | 12                  | 125  | 1.0±0.10 | 30  | Ø10×115 | 25W          | 12                 | 125  | M4 | 6           | Ø10×115 |
| 30W          | 12                  | 130  | 1.0±0.10 | 30  | Ø10×125 | 30W          | 12                 | 130  | M4 | 6           | Ø10×125 |
| 50W          | 12                  | 160  | 1.0±0.10 | 30  | Ø10×150 | 50W          | 12                 | 160  | M4 | 6           | Ø10×150 |