Jameco Part Number 690700
1. General

1.1 Scope

This specification is available for Carbon Film Fixed Resistor.

1.2 Type designation (example)

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

<table>
<thead>
<tr>
<th>CF Type</th>
<th>Rated power</th>
<th>Nominal resistance value</th>
<th>Resistance tolerance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal</td>
<td>1/8W</td>
<td>1/4WS</td>
<td>E-24 Series</td>
</tr>
<tr>
<td></td>
<td>1/4W</td>
<td>1/2WS</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1/2W</td>
<td>1WS</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1W</td>
<td>2WS</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2W</td>
<td>3WS</td>
<td></td>
</tr>
</tbody>
</table>

* 0 : Resistance less than 10m

1.3 Rated power

Rated power is maximum power which can be continuously loaded at specified ambient temperature 70°C, as Table-1; however when the ambient temperature exceeds 70°C, rated power should be determined from the derating curve of Fig.1.
Table 1

<table>
<thead>
<tr>
<th>Type</th>
<th>Rated power</th>
<th>Maximum working voltage</th>
<th>Maximum overload voltage</th>
<th>Dielectric withstand voltage</th>
<th>Resistance Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>CF1/8W</td>
<td>0.125W</td>
<td>200V</td>
<td>400V</td>
<td>350V</td>
<td>1Ω~10MΩ</td>
</tr>
<tr>
<td>CF1/4W</td>
<td>0.25W</td>
<td>250V</td>
<td>500V</td>
<td>500V</td>
<td>1Ω~10MΩ</td>
</tr>
<tr>
<td>CF1/2W</td>
<td>0.5W</td>
<td>350V</td>
<td>700V</td>
<td>700V</td>
<td>1Ω~10MΩ</td>
</tr>
<tr>
<td>CF1W</td>
<td>1W</td>
<td>500V</td>
<td>800V</td>
<td>800V</td>
<td>1Ω~10MΩ</td>
</tr>
<tr>
<td>CF2W</td>
<td>2W</td>
<td>500V</td>
<td>1000V</td>
<td>1000V</td>
<td>1Ω~10MΩ</td>
</tr>
<tr>
<td>CF1/4WS</td>
<td>0.25W</td>
<td>250V</td>
<td>500V</td>
<td>350V</td>
<td>1Ω~10MΩ</td>
</tr>
<tr>
<td>CF1/2WS</td>
<td>0.5W</td>
<td>350V</td>
<td>700V</td>
<td>500V</td>
<td>1Ω~10MΩ</td>
</tr>
<tr>
<td>CF1WS</td>
<td>1W</td>
<td>500V</td>
<td>800V</td>
<td>700V</td>
<td>1Ω~10MΩ</td>
</tr>
<tr>
<td>CF2WS</td>
<td>2W</td>
<td>500V</td>
<td>1000V</td>
<td>800V</td>
<td>1Ω~10MΩ</td>
</tr>
<tr>
<td>CF3WS</td>
<td>3W</td>
<td>500V</td>
<td>1000V</td>
<td>1000V</td>
<td>1Ω~10MΩ</td>
</tr>
</tbody>
</table>

1.4 Rated voltage

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.
2. 構造 Construction

2.1 外形尺寸 External dimensions

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

2.2 構造圖 Structure diagram

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

<table>
<thead>
<tr>
<th>號碼 NO</th>
<th>構造名稱 Item</th>
<th>內容 Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>基體磁器 Ceramic core</td>
<td>使用高含鋁 High alumina ceramic is used.</td>
</tr>
<tr>
<td>2</td>
<td>電阻體 Resistor element</td>
<td>電阻體的成份係使用碳素皮膜。 The resistor element shall consist of carbon film.</td>
</tr>
<tr>
<td>3</td>
<td>端子 Terminal</td>
<td>鍍銅 Tinned iron cap.</td>
</tr>
<tr>
<td>4</td>
<td>接線 Connection</td>
<td>導線對鍍銅須以電氣熔接。 The lead wire, which is plated with solder, shall be mounted to the caps by welding process.</td>
</tr>
<tr>
<td>5</td>
<td>導線 Lead wire</td>
<td>鍍銅的軟銅線。 Tinned annealed copper wire.</td>
</tr>
<tr>
<td>6</td>
<td>下塗塗裝 Undercoat painting</td>
<td>電氣絕緣漆。 Electric insulation varnish.</td>
</tr>
<tr>
<td>7</td>
<td>上塗塗裝 Finishing painting</td>
<td>使用環氧樹脂塗 Epoxy resin is used.</td>
</tr>
<tr>
<td>8</td>
<td>表示 Indication</td>
<td>色碼。 Color code.</td>
</tr>
</tbody>
</table>
### 2.3 Terminal caps

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

### 2.4 Resistor body color

<table>
<thead>
<tr>
<th>Normal size</th>
<th>Small size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>種類</strong> Type</td>
<td><strong>種類</strong> Type</td>
</tr>
<tr>
<td>CF1/8W,CF1/4W, CF1/2W, CF1W,CF2W</td>
<td>CF1/4WS,CF1/2WS, CF1WS,CF2WS, CF3WS</td>
</tr>
</tbody>
</table>

### 2.5 Indication

The indication shall be satisfied with [4. Indication].

### 3. Characteristics

<table>
<thead>
<tr>
<th>Item</th>
<th>Performance</th>
<th>Test methods (Conform to JIS C 5202)</th>
</tr>
</thead>
</table>
| **溫度係數** Temperature Coefficient | T.C.R: ±350 (PPM/℃) ±0~500 (PPM/℃) ±700 (PPM/℃) ±1500 (PPM/℃) | 5.2 項参照 Comply with 5.2  
\[
\frac{R_1-R_0}{R_0(T_1-T_0)} \times 10^6 \text{(PPM/℃)}
\]

- R0: 室溫(T0)所測量之電阻值。  
- R1: 室溫+100℃(T1)後所測量之電阻值。  
- R0: Resistance value at room temp. (T0).  
- R1: Resistance value at room temp. plus 100℃ (T1).  

<table>
<thead>
<tr>
<th><strong>阻值 Resistance Value</strong></th>
<th>160KΩ 150KΩ 390KΩ 910KΩ 1MΩ 10MΩ</th>
</tr>
</thead>
</table>
| **短時間過負荷 Short time overload** | ±(1%+0.05Ω)以内。  
不得有機械的損傷。  
Within ±(1%+0.05Ω).  
No evidence of mechanical damage. |
| **焊銲附著性 Solderability** | 導線至少95%以上新銲覆蓋。  
Covered with new solder by 95% at least. |
| 5.5 項参照 Comply with 5.5  
Rated power×2.5 times, 5s  
But not to exceed maximum overload voltage. (See table-1) |
| 6.5 項参照 Comply with 6.5  
焊銲溫度：260±5℃。  
浸銲時間：10±1.0秒。  
Test temperature of solder: 260±5℃  
Dipping time in solder: 10±1.0 s |

| 5.5 項参照 Comply with 5.5  
Rated power×2.5 times, 5s  
But not to exceed maximum overload voltage. (See table-1) |
| 6.5 項参照 Comply with 6.5  
焊銲溫度：260±5℃。  
浸銲時間：10±1.0秒。  
Test temperature of solder: 260±5℃  
Dipping time in solder: 10±1.0 s |
<table>
<thead>
<tr>
<th>項目</th>
<th>规格值</th>
<th>試驗方法(依據 JIS C 5202)</th>
</tr>
</thead>
<tbody>
<tr>
<td>絕緣電阻</td>
<td>$10^4 , \Omega$ 以上。$10^4 , \Omega$ or more.</td>
<td>5.6 項参照 Comply with 5.6 置於 V 型槽方法。V-block method 放在直流電壓 500V 60 秒。</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Resistor shall be tested at DC 500V for 60 seconds.</td>
</tr>
<tr>
<td>耐電壓</td>
<td>無電弧放電、燒損及絕緣破壞等異狀。</td>
<td>5.7 項参照 Comply with 5.7 5.7 常壓,置於 V 型槽方法。</td>
</tr>
<tr>
<td></td>
<td></td>
<td>施加個別規定之交流電壓 60 秒。(見表-1) Constant pressure, V-block method</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Resistor shall be tested at AC potential respectively for 60 seconds. (See table-1).</td>
</tr>
<tr>
<td>斷續過負荷</td>
<td>$\pm(3%+0.05 , \Omega)$ 以内。</td>
<td>5.8 項参照 Comply with 5.8 預定電壓 x4 倍, 10000 回 (1 秒 ON, 25 秒 OFF)。</td>
</tr>
<tr>
<td></td>
<td>Within $\pm(3%+0.05 , \Omega)$</td>
<td>不可超過最高過負荷電壓 (見表-1) Rated voltage X 4 times, 10000 cyc. (1s ON, 25s OFF)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>But not to exceed maximum overload voltage. (See table-1).</td>
</tr>
<tr>
<td>端子強度</td>
<td>端子不得斷裂及鬆弛。</td>
<td>6.1 項参照 Comply with 6.1</td>
</tr>
<tr>
<td></td>
<td>No evidence of mechanical damage.</td>
<td>6.1 項参照 Comply with 6.1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>引張強度</th>
<th>線徑 mm Diameter</th>
<th>引張力 Tensile force N(kgf)</th>
<th>時間 Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>$0.3 , \text{mm}-0.5 , \text{mm}$</td>
<td>5(0.51)</td>
<td>10±1 second</td>
<td></td>
</tr>
<tr>
<td>$0.5 , \text{mm}-0.8 , \text{mm}$</td>
<td>10(1.02)</td>
<td>10±1 second</td>
<td></td>
</tr>
<tr>
<td>$0.8 , \text{mm}-1.25 , \text{mm}$</td>
<td>20(2.04)</td>
<td>10±1 second</td>
<td></td>
</tr>
</tbody>
</table>

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, 其次由彎曲處到端子線前端 1.2±0.4mm 處採定端子引出橡, 作回轉軸, 以約 5 秒時間沿直面而轉 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。
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.
<table>
<thead>
<tr>
<th>項目</th>
<th>規格值</th>
<th>試驗方法 (Conform to JIS C 5202)</th>
</tr>
</thead>
<tbody>
<tr>
<td>耐溶劑性 Resistance to solvent</td>
<td>塗裝及色碼不得脫落。 No deterioration of protective coating and markings.</td>
<td>6.9 項參照 Comply with 6.9 放入酒精溶剤之超音波機內，保持 3 分鐘。 Specimens shall be immersed in a bath of isoproalcohol completely for 3 minutes with ultrasonic.</td>
</tr>
<tr>
<td>溫度循環 Temperature cycle</td>
<td>±(1%±0.05 Ω)以內。 不得有機械的損傷。 Within ±(1%±0.05 Ω) No evidence of mechanical damage.</td>
<td>7.4 項參照 Comply with 7.4 低溫側：-30℃/30 分，室溫：10～15 分鐘 高溫側：+80℃/30 分，室溫：10～15 分鐘 5 回 Low side：-30℃/30min, Room temp.：10 to 15min High side：80℃/30min, Room temp.：10 to 15min 5 cycles</td>
</tr>
<tr>
<td>耐濕負荷壽命数 Load life in humidity</td>
<td>±(5%±0.05 Ω)以內。 Within ±(5%±0.05 Ω)</td>
<td>7.9 項參照 Comply with 7.9 40±2℃，濕度 90～95%，1000 小時 定格電壓(90 分鐘 ON, 30 分鐘 OFF) 40±2℃, 90 to 95%RH, 1000h Rated voltage (90 min ON, 30 min OFF)</td>
</tr>
<tr>
<td>負荷壽命数 Load life</td>
<td>±(5%±0.05 Ω)以內。 Within ±(5%±0.05 Ω)</td>
<td>7.10 項參照 Comply with 7.10 70±3℃, 1000 小時 定格電壓(90 分鐘 ON, 30 分鐘 OFF) 70±3℃, 1000h Rated voltage (90 min ON, 30 min OFF)</td>
</tr>
<tr>
<td>焊錫耐熱性 Resistance to soldering heat</td>
<td>±(1%±0.05 Ω)以內。 不得有機械的損傷。 Within ±(1%±0.05 Ω) No evidence of mechanical damage.</td>
<td>6.4 項參照 Comply with 6.4 350±10℃, 3.5±0.5 秒，試驗後放置半小時。 350±10℃, 3.5±0.5s After test leave for 0.5h.</td>
</tr>
<tr>
<td>保存條件 Preservation condition</td>
<td>溫度:25±10℃，濕度 60±20 RH% 保存期限：2年 Temperature：25±10℃ Humidity：60±20 RH% 保存時間： Two year</td>
<td>6.4 項參照 Comply with 6.4 260±5℃, 1.0±1.0 秒，試驗後放置半小時。 260±5℃, 1.0±1.0s After test leave for 0.5h.</td>
</tr>
</tbody>
</table>
4. **Indication**

**Color Code**

<table>
<thead>
<tr>
<th>Colour</th>
<th>1&lt;sup&gt;st&lt;/sup&gt; Digit</th>
<th>2&lt;sup&gt;nd&lt;/sup&gt; Digit</th>
<th>3&lt;sup&gt;rd&lt;/sup&gt; Digit</th>
<th>Multiplier</th>
<th>Tolerance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>$10^5$</td>
<td>±1% (F)</td>
</tr>
<tr>
<td>Brown</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>$10^5$</td>
<td>±2% (G)</td>
</tr>
<tr>
<td>Red</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>$10^5$</td>
<td>±2% (G)</td>
</tr>
<tr>
<td>Orange</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>$10^5$</td>
<td>±2% (G)</td>
</tr>
<tr>
<td>Yellow</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>$10^5$</td>
<td>±2% (G)</td>
</tr>
<tr>
<td>Green</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>$10^5$</td>
<td>±0.5% (D)</td>
</tr>
<tr>
<td>Blue</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>$10^5$</td>
<td>±0.25% (C)</td>
</tr>
<tr>
<td>Violet</td>
<td>7</td>
<td>7</td>
<td>7</td>
<td>$10^5$</td>
<td>±0.1% (B)</td>
</tr>
<tr>
<td>Gray</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>$10^5$</td>
<td>±0.05% (A)</td>
</tr>
<tr>
<td>White</td>
<td>9</td>
<td>9</td>
<td>9</td>
<td>$10^5$</td>
<td>±20% (M)</td>
</tr>
<tr>
<td>Gold</td>
<td></td>
<td></td>
<td></td>
<td>$10^5$</td>
<td>±5% (J)</td>
</tr>
<tr>
<td>Silver</td>
<td></td>
<td></td>
<td></td>
<td>$10^5$</td>
<td>±10% (K)</td>
</tr>
<tr>
<td>Plain</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>±20% (M)</td>
</tr>
</tbody>
</table>
5. 外形尺寸  External dimensions
5.1 散裝 P 型  P type

单位：mm
Unit：mm

<table>
<thead>
<tr>
<th>种类</th>
<th>Type</th>
<th>尺寸</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>普通型</td>
<td>Normal Size</td>
<td>小型化</td>
<td>Small Size</td>
</tr>
<tr>
<td>CF1/8W</td>
<td>CF1/4WS</td>
<td>3.8±0.5</td>
<td>2.0±0.5</td>
</tr>
<tr>
<td>CF1/4W</td>
<td>CF1/2WS</td>
<td>6.0±0.5</td>
<td>2.5±0.5</td>
</tr>
<tr>
<td>CF1/2W</td>
<td>CF1WS</td>
<td>9.0±1.0</td>
<td>3.5±0.5</td>
</tr>
<tr>
<td>CF1W</td>
<td>CF2WS</td>
<td>9.0±1.0</td>
<td>3.5±0.5</td>
</tr>
<tr>
<td>CF2W</td>
<td>CF3WS</td>
<td>11.0±1.0</td>
<td>4.5±0.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15.0±1.0</td>
<td>5.0±0.5</td>
</tr>
</tbody>
</table>
5.2 帶裝  Axial Lead Taping

<table>
<thead>
<tr>
<th>種類 Type</th>
<th>帶狀 Taping</th>
<th>尺寸 Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>普通型 Normal Size</td>
<td>小型化 Small Size</td>
<td></td>
</tr>
<tr>
<td>T26</td>
<td>3.8±0.5</td>
<td>26±1.0</td>
</tr>
<tr>
<td>T52</td>
<td>3.8±0.5</td>
<td>52±1.0</td>
</tr>
<tr>
<td>CF1/4W</td>
<td>CF1/2WS</td>
<td>T26</td>
</tr>
<tr>
<td>T52</td>
<td>6.0±0.5</td>
<td>52±1.0</td>
</tr>
<tr>
<td>CF1/2W</td>
<td>CF1WS</td>
<td>T52</td>
</tr>
<tr>
<td>CF1W</td>
<td>CF2WS</td>
<td>T52</td>
</tr>
<tr>
<td>T63</td>
<td>11.0±1.0</td>
<td>63±1.0</td>
</tr>
<tr>
<td>CF2W</td>
<td>CF3WS</td>
<td>T52</td>
</tr>
<tr>
<td>T63</td>
<td>15.0±1.0</td>
<td>63±1.0</td>
</tr>
<tr>
<td>T73</td>
<td>15.0±1.0</td>
<td>73±1.0</td>
</tr>
</tbody>
</table>

單位：mm
Unit：mm
5.3 MG 型&M 型  
MG Type & M Type

**MG型**

**MG Type**

**M型**

**M Type**

<table>
<thead>
<tr>
<th>種類 Type</th>
<th>Normal Size</th>
<th>L</th>
<th>DΦ</th>
<th>dΦ</th>
<th>P</th>
<th>h</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td>普通型</td>
<td>CF1/8W</td>
<td>3.8±0.5</td>
<td>2.0±0.5</td>
<td>0.45±0.05</td>
<td>6.0±0.5</td>
<td>10.0±2.0</td>
<td></td>
</tr>
<tr>
<td>小型化</td>
<td>CF1/4WS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>普通型</td>
<td>CF1/4W</td>
<td>6.0±0.5</td>
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Unit:mm
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**FKN 型 FKN Type**

- 专用于：1/4 W (1/2 W5) 专用

**FNN 型 FNN Type**

- 专用于：1/8 W (1/4 W5) 专用

**FKK 型 FKK Type**

- 专用于：1/4 W (1/2 W5) 专用

- 专用于：1/8 W (1/4 W5) 专用

| 单位:mm |

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6 包装 Package

6.1 带装品包装 Tape in box packing (Ammo packing)

6.1.1 表示项目 Indication
(1) 客户品号 Customer Part No.
(2) 製造品号 Manufacturer Part No.
(3) 数量 Quantity
(4) 製造者名 Manufacturer

6.1.2 包装盒尺寸和数量 Packing box size and quantity

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