

# METAL PLATE CEMENT RESISTOR

## MPQ Series 金屬板電阻器 (MPQ 系列)

### FEATURES

- Compact type with safety design of Non-flammability and insulation
- Low resistance and resilient to surge current
- Non- inductance
- Resistance value range is  $0.01\Omega\sim 0.1\Omega$ .

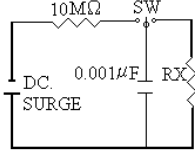
### 特性

- 不燃與絕緣之安全設計
- 低阻值耐突波佳
- 無電感
- 阻值範圍： $0.01\Omega\sim 0.1\Omega$

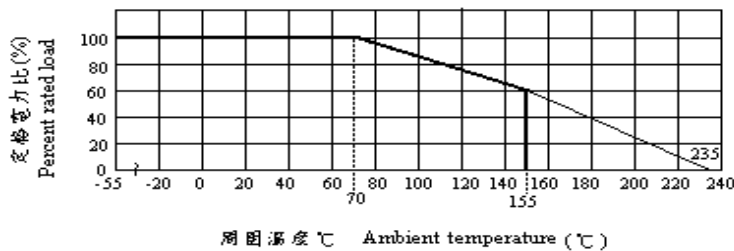


### CHARACTERISTICS

### 性能

| ITEM 項目                                    | SPEC. 規格                               | REMARKS 備註  |
|--|--|---|
| Load life under high temperature<br>高溫負荷壽命 | $\pm 5\%$                              | Rated voltage at $70^{\circ}\text{C}$ for 1,000 hours<br>額定電壓 $70^{\circ}\text{C}$ 1,000 小時   |
| Load life under high humidity<br>耐濕負荷壽命    | $\pm 5\%$                              | Rated voltage at $40^{\circ}\text{C}$ , 95% RH for 1,000 hours<br>額定電壓 $40^{\circ}\text{C}$ , 95% RH 1,000 小時   |
| Temp. coeff. Of resistance<br>溫度係數         | $\pm 350 \text{ ppm}/^{\circ}\text{C}$ | Room temp. $+100^{\circ}\text{C}$<br>室溫 $+100^{\circ}\text{C}$  |
| Short time overload<br>短時間過負荷              | $\pm 2\%$                              | 6.25 times the rated power for 5 seconds<br>6.25 倍額定功率 5 秒  |
| Dielectric withstanding voltage<br>耐電壓     | -----                                  | 500 volt 1 min<br>500V 1 分鐘   |
| Pulse withstanding voltage<br>脈衝測試         | $\pm 20\%$                             |  <ul style="list-style-type: none"> <li>■ The following discharge cycle is repeated in the circuit of the left fig.<br/>2.5 sec. ON 2.5 sec. OFF 10,000 cycles.<br/>With following DC pulse test voltage:</li> <li>■ Pulse voltage : 10KV</li> </ul> |
| Insulation resistance<br>絕緣電阻              | $>10\text{M}\Omega$                    | 500 volt Insulation test<br>500V 絕緣測試電壓   |

### Derating Curve 額定功率下降曲線



For resistors operated in ambient temperature over  $70^{\circ}\text{C}$ , power rating must be derated in accordance with the curve left.

在周圍溫度超過  $70^{\circ}\text{C}$  使用時，應依據左圖之額定功率下降曲線，輕減其額定功率。

### DIMENSIONS

### 尺寸

| Model<br>型名 | Rated Power<br>額定功率 (W) | Resistance Range<br>阻值範圍 ( $\Omega$ ) | Tolerance<br>容許差 | Maximum Working Voltage<br>最高使用電壓 | Maximum Overload Voltage<br>最高過負荷電壓 | Dimension 尺寸 (mm) |              |               |                |           |           |
|-------------|-------------------------|---------------------------------------|------------------|-----------------------------------|-------------------------------------|-------------------|--------------|---------------|----------------|-----------|-----------|
|             |                         |                                       |                  |                                   |                                     | A                 | B            | C             | dφ             | h         | P         |
| MPQ05       | 5                       | 0.01~0.1                              | J $\pm 5\%$      | $\sqrt{\text{PR}}$                | $\sqrt{\text{PR}}$                  | 16 $\pm$ 0.5      | 16 $\pm$ 0.5 | 6.0 $\pm$ 0.5 | 0.8 $\pm$ 0.05 | 6 $\pm$ 1 | 9 $\pm$ 1 |

### Construction (結構圖)

