

# High Voltage of DC. 4KV Type DC. 4KV 高耐壓用

## OKITA

### 1a · Mercury Relay 1a · 水銀繼電器

#### Part Number / Feature 品名 / 特長

- MRL - 100PC

Coil-voltage 線圈電壓

- High Breakdown Voltage of DC.4KV, since it is a printed circuit board type, it decreases time and effort of mounting sharply. The axial-lead (tubular type) is prepared separately. The magnetic shield is provided.
- 耐壓設計為 DC. 5KV 的高耐壓，此為印刷電路板類型，故組裝時間能大幅減少。另有兩端出線類型，添加磁氣屏蔽。



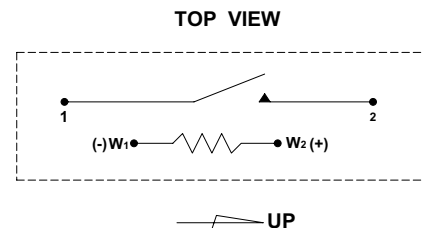
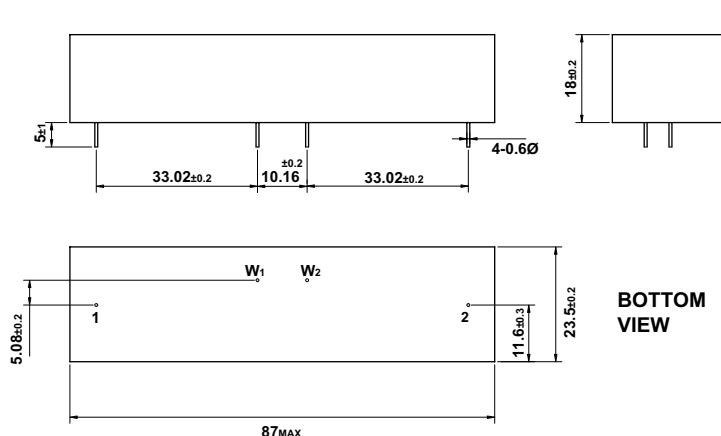
#### Performance 性能

| Specifications 規格                 | Item 項目                          | Standard 規格  |
|-----------------------------------|----------------------------------|--|
| Contact Specifications<br>接點規格    | Contact Form 接點型式                | 1a (make mercury)  |
|                                   | Contact Rating 接點額定              | 100 W  |
|                                   | Max. Switching Voltage 最大切換電壓    | DC. 1000V<br>(When switching DC1000V, Current is 30mA MAX)   |
|                                   | Max. Switching Current 最大切換電流    | 2 A  |
|                                   | Max. Carry Current 最大通電電流        | 10 A   |
| Electrical Specifications<br>電氣規格 | Contact Resistance 接點接觸阻抗        | 100m Ω MAX.  |
|                                   | Breakdown Voltage 耐電壓            | Between contacts DC.4000V<br>Contacts to coil DC.4000V   |
|                                   | Insulation Resistance 絕緣阻抗       | Between all isolated pins $1 \times 10^9 \Omega$ MIN. (DC.100V)  |
|                                   | Capacitance 靜電容量                 | Across Open contacts 3pF Typ.<br>Contact to coil 12pF Typ.   |
|                                   | Thermal Electromotive Force 熱起電力 | 80μV TYP.  |
|                                   | Operate Time 動作時間                | (1 Pulse) 3.0mS MAX. (at Nominal Voltage)  |
|                                   | Release Time 釋放時間                | (1 Pulse) 3.0mS MAX. (at Nominal Voltage)  |
| Mechanical Specifications<br>機械規格 | Vibration 耐振動                    | 20G (0~55Hz, 1.5mm)  |
|                                   | Shock 耐衝擊                        | 30G (11mS, 1/2 Sin Wave)   |
| Environmental 環境                  | Operating Temperature 使用周圍溫度     | -10°C ~ +60°C  |
| Life Expectancy 壽命                | Mechanical 機械的                   | 1 X10 <sup>10</sup> MIN. Operations  |
|                                   | Electrical 電氣的                   | DC.1000V-30mA 1 X10 <sup>8</sup> MIN. Operations (R.L.)<br>DC.50V-2A 1 X10 <sup>8</sup> MIN. Operations (R.L.) |

#### Coil Specifications 線圈規格

| Part Number<br>品名 | Nominal Voltage<br>DC ± 10%[V]<br>額定電壓 | Coil Resistance<br>± 10%[Ω] at 20°C<br>線圈阻抗 | Nominal Current<br>[mA]<br>額定電流 | Must-Operate Voltage<br>MAX.[V] at 20°C<br>啟動電壓 |
|-------------------|--|---|---------------------------------|---|
| MRL-101PC         | 24                                     | 1200  | 20.0                            | 16.8  |
| MRL-102PC         | 12                                     | 400   | 30.0                            | 8.4   |
| MRL-104PC         | 5                                      | 100   | 50.0                            | 3.5   |

#### Dimensions / Terminal Identification (Unit:mm) 外型尺寸圖 / 結線圖 (單位:毫米)



Weight: about 60gr

備註：安裝時，UP 表示方向，並請於垂直 ±30° 範圍內裝置。