

# SURGE RESISTOR

## RV Series 耐突波電阻器(RV 系列)

### FEATURES

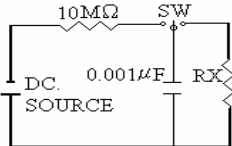
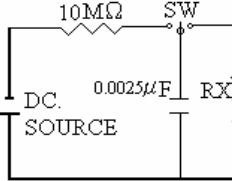
- Resistance value range is 680K~3G.
- Stable and long service life.
- Acceptable pulse of 10KV discharge.
- Small temperature coefficient

### 特性

- 阻值範圍：680K~3G.
- 長期穩定性佳
- 可承受 10KV 突波的衝擊
- 溫度係數小

### CHARACTERISTICS

### 性能

ITEM 項目	SPEC. 規格	REMARKS 備註
Load life under high temperature 高溫負荷壽命	±1.5%	JIS C 5201-1 Rated voltage at 70°C for 1000 hours (4.25.1) 額定電壓 70°C 1000 小時
High humidity load life 高濕負荷壽命	±5%	JIS C 5201-1 Rated voltage at 40°C,95% RH for 1000 hours (4.24) 額定電壓 40°C,95% RH 1000 小時
Temp. coeff. of resistance 溫度係數	±200 ppm/°C	JIS C 5201-1 Room temp. + 100°C 室溫 + 100°C
Short time overload 短時間過負荷	± 1%	JIS C 5201-1 6.25 times the rated power for 5 seconds (4.13) 6.25 倍額定功率 5 秒
Temperature cycling 溫度循環	±1%	JIS C 5201-1 5 cycles for -25°C±3°C (30min) ; room temp.(30min)~ +85°C±3°C (30min) room temp.(30min)
Resistance to soldering heat 焊錫耐熱	±1%	JIS C 5201-1 260°C±5 °C for 10 seconds(焊錫槽) (4.18) 350°C±10 °C for 3.5 seconds(手焊錫)
Insulation resistance 絕緣電阻	≥ 50G	JIS C 5201-1 100 V Insulation test 1min (4.6.1.1) 100 V 絕緣測試電壓 1min
UL Pulse withstanding voltage UL 脈衝試驗	±20%	 <p>■The following discharge cycle is repeated in the circuit of the left fig. 2.5 sec. ON 2.5 sec. OFF 50 cycles. Test voltage (DC source) 10KV(Max)</p>
Futaba Pulse withstanding voltage 台灣雙羽脈衝試驗	±3%	 <p>■The following discharge cycle is repeated in the circuit of the left fig. 1 sec. ON 1 sec. OFF 50 cycles. Test voltage (DC source) is shown below:            ■Pulse voltage            1/4W = (&gt; 8.5KV, Max = 13KV)            ≥ 1/2W = (&gt; 14KV, Max = 20KV)</p>

### Surge Test 耐突波測試

High Energy Test 高能量測試		Low Energy Test 低能量測試	
ITEM 項目	SPEC. 規格	ITEM 項目	SPEC.規格
Capacitance 電容值 (μF)	0.12 μF	Capacitance 電容值 (μF)	0.03μF
Voltage 電壓 (KV)	10KV	Voltage 電壓 (KV)	10KV
Charging/discharge Time 充/放電時間	10sec / 2sec	Charging/discharge Time 充/放電時間	10sec / 2sec
Cycle 週期	12sec	Cycle 週期	12sec
Charging/discharge Cycles 充/放電時間	1,000 Cycles	Charging/discharge Cycles 充/放電時間	10,000 Cycles
Criteria (ΔR)	+ 100% ~ -20%	Criteria (ΔR)	+ 100% ~ -10%

### Acceptable Surge Test Result

High Energy Test 高能量測試		Low Energy Test 低能量測試	
Test Cycles 測試次數	Shall not exceed 允許變化量	Test Cycles 測試次數	Shall not exceed 允許變化量
100 Cycles	±10%	10,000 Cycles	±20%
100~1,000 Cycles	±20%		