

SUV 耐高壓系列

SUV High Voltage Series

■ 特點 Features

- 高耐壓 High Voltage
- 低漏電 Low Leakage Current
- 長壽命 Long Life

■ 應用 Application

- 智慧電錶 Smart Meter
- 電動工具 Electric Tool
- 電動玩具 Electronic Toy

■ 產品規格 Specifications



項目 Item	性能 Performance	
額定電壓 Rated Voltage	3V	
浪湧電壓 Surge Voltage	3.15V	
容量範圍 Nominal Cap. Range	1.0 F ~ 400 F	
容量偏差 Capacitance Tolerance	-20% ~ +50% ; -20% ~ +20% ; -10% ~ +30%	
工作溫度 Operating Temperature	-40°C ~ +65°C	
循環壽命 Cycle Life Characteristics	在25°C下，以恒定電流使電容器在額定電壓和半額定電壓間迴圈充放電 (>500,000次)。 Capacitors charge-discharge between rated voltage and half rated voltage under constant current at +25°C,(>500,000 cycles)	
	容量變化：≤ 初始值的30%	Capacitance change: ≤ 30%of initial value
	內阻變化：≤ 初始規格值的2倍	Internal resistance: ≤ 2 times of initial specified value
	外觀變化：無明顯變化	Appearance: No significant change
高溫負荷壽命 High temperature load time	溫度：+65°C 電壓：額定電壓 測試時長：1,000(+48)hrs Duration of testing: 1,000(+48)hrs	Temperature: +65°C Voltage: Rated voltage
	容量變化：≤ 初始值的30%	Capacitance change: ≤ 30%of initial value
	內阻變化：≤ 初始規格值的3倍	Internal resistance: ≤ 3 times of initial specified value
	外觀變化：無明顯變化	Appearance: No significant change
溫度特性 Temperature characteristics	溫度：T±2°C(-40°C≤T≤+70°C) 測試時長：12hrs 無負載	Temperature: T±2°C(-40°C≤T≤+70°C) Duration of storage: 12hrs Non-loaded
	容量變化：≤ 初始值的30%	Capacitance change: ≤ 30%of initial value
	內阻變化：≤ 初始規格值的2倍	Internal resistance: ≤ 2 times of initial specified value
	外觀變化：無明顯變化	Appearance: No significant change
濕熱特性 Humidity characteristic	電壓：額定電壓 相對濕度：90%~95% 測試時長：240hrs 溫度：40±2°C	Voltage: Rated voltage Relative humidity: 90%~95% Duration of testing: 240hrs Temperature: 40±2°C
	容量變化：≤ 初始值的30%	Capacitance change: ≤ 30%of initial value
	內阻變化：≤ 初始規格值的2倍	Internal resistance: ≤ 2 times of initial specified value
	外觀變化：無明顯變化	Appearance: No significant change
抗振性 Vibration resistance	振幅：1.5mm 頻率：10~55Hz 方向：X,Y,Z(2hrs) 測試時長：6hrs	Amplitude: 1.5mm Frequency: 10~55Hz Direction: X,Y,Z(2hrs) Duration of testing: 6hrs
	容量變化：≤ 初始值的30%	Capacitance change: ≤ 30%of initial value
	內阻變化：≤ 初始規格值的2倍	Internal resistance: ≤ 2 times of initial specified value
	外觀變化：無明顯變化	Appearance: No significant change

SUV 耐高壓系列

SUV High Voltage Series

■ 典型產品 Standard Products

• 導針型 Radial Type

產品編碼 Part number	額定電壓 Rated Voltage (V)	標稱容量 Rated Cap. (F)	尺寸 Size	最大等值阻抗 Max. ESR		最大工作電流 Maximum Continuous Current (A) ($\Delta T=15^{\circ}\text{C}$)	最大峰值電流 Maximum Peak Current (A)	最大漏電流 Maximum Leakage Current (72hrs/mA)	功率密度 Power Density (W/kg)	最大能量 Maximum Energy (W.h)	能量密度 Energy Density (Wh/kg)
			$\Phi D \times L$ (mm)	ESR_{AC} (1kHz/m Ω)	ESR_{DC} IEC法 (m Ω)						
SUV003X1R0YSF12	3.0	1.0	8x12	160	240	0.47	1.21	0.007	4348	0.0013	1.21
SUV003W2R0YSF16		2.0	8x16	120	180	0.61	2.21	0.012	4787	0.0025	1.99
SUV003W3R3YSF20		3.3	8x20	100	150	0.74	3.31	0.014	4816	0.0041	2.76
SUV003W5R0YSF25		5.0	8x25	90	135	0.87	4.48	0.018	4141	0.0063	3.23
SUV003W5R0YSG20		5.0	10x20	75	113	0.97	4.80	0.018	3794	0.0063	2.47
SUV003M7R0YSG20		7.0	10x20	70	105	1.00	6.05	0.020	3956	0.0088	3.37
SUV003M100YSG25		10	10x25	55	83	1.25	8.22	0.030	4156	0.0125	3.97
SUV003M100YSG30		10	10x30	45	68	1.51	8.96	0.036	4417	0.0125	3.45
SUV003M100YSX20		10	12.5x20	45	68	1.42	8.96	0.036	4033	0.0125	3.15
SUV003M150YSX25		15	12.5x25	38	57	1.70	12.13	0.055	4210	0.0188	4.17
SUV003M200YSX30		20	12.5x30	30	45	2.08	15.79	0.070	4247	0.0250	4.42
SUV003M250YSJ25		25	16x25	25	38	2.41	19.35	0.082	3491	0.0313	3.79
SUV003M300YSJ30		30	16x30	20	30	2.92	23.68	0.090	3930	0.0375	4.09
SUV003M500YSK40		50	18x40	16	24	3.96	34.09	0.126	3140	0.0625	4.36
SUV003M101YSK60		100	18x60	13	20	5.30	50.85	0.260	2523	0.1250	5.69

• 牛角型 Snap-in Type

產品編碼 Part number	額定電壓 Rated Voltage (V)	標稱容量 Rated Cap. (F)	尺寸 Size	最大等值阻抗 Max. ESR		最大工作電流 Maximum Continuous Current (A) ($\Delta T=15^{\circ}\text{C}$)	最大峰值電流 Maximum Peak Current (A)	最大漏電流 Maximum Leakage Current (72hrs/mA)	功率密度 Power Density (W/kg)	最大能量 Maximum Energy (W.h)	能量密度 Energy Density (Wh/kg)
			$\Phi D \times L$ (mm)	ESR_{AC} (1kHz/m Ω)	ESR_{DC} IEC法 (m Ω)						
SUV003Q101TZM45	3.0	100	22x45	8.0	11.2	6.84	70.75	0.276	4231	0.1250	5.48
SUV003Q121TZM50		120	22x50	7.5	10.5	7.40	79.65	0.345	3594	0.1500	5.24
SUV003Q151TZN50		150	25x50	7.0	9.8	8.22	91.09	0.460	3150	0.1875	5.36
SUV003Q221TZO50		220	30x50	6.0	8.4	9.83	115.87	0.598	2726	0.2750	5.83
SUV003Q251TZO55		250	30x55	5.5	7.7	10.71	128.21	0.667	2877	0.3125	6.41
SUV003Q361TZP60		360	35x60	4.0	5.4	14.49	183.42	0.978	2657	0.4500	5.98
SUV003Q401TZP66		400	35x66	3.5	4.7	16.15	207.61	1.150	2537	0.5000	5.55