

SUT 耐高溫系列

SUT High Temperature Series

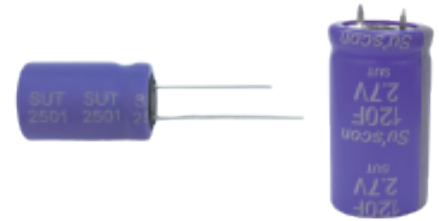
■ 特點 Features

- 高耐溫 High Temperature
- 低阻抗 Low Impedance
- 長壽命 Long Life

■ 應用 Application

- 智慧儀表 Intelligent Instrument
- 國防軍工 National Defence Industry
- 汽車電子 Automotive Electronics

■ 產品規格 Specifications



項目 Item	性能 Performance	
額定電壓 Rated Voltage	2.7V	
浪湧電壓 Surge Voltage	2.85V	
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 ~ +85°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：+85°C 電壓：額定電壓 測試時長：1,000(+48)hrs Duration of testing: 1,000(+48)hrs	Temperature: +85°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≤+85°C) 測試時長：12hrs 無負載	Temperature: T±2°C(-40°C≤T≤+85°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

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■ 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)						
SUT2R7W1R0YSE12	2.7	1.0	6.3x12	200	300	0.37	1.04	0.006	4629	0.0010	1.61
SUT2R7W3R3YSE22		3.3	6.3x22	120	180	0.62	2.79	0.012	4418	0.0033	3.04
SUT2R7X1R0YSF12		1.0	8x12	160	240	0.47	1.09	0.007	3314	0.0010	0.92
SUT2R7W2R0YSF16		2.0	8x16	120	180	0.61	1.99	0.010	3591	0.0020	1.50
SUT2R7W3R3YSF20		3.3	8x20	100	150	0.74	2.98	0.012	3645	0.0033	2.09
SUT2R7W5R0YSF25		5.0	8x25	90	135	0.87	4.03	0.016	3115	0.0051	2.43
SUT2R7W5R0YSG20		5.0	10x20	75	113	0.97	4.32	0.016	2957	0.0051	1.92
SUT2R7M7R0YSG25		7.0	10x25	60	90	1.20	5.80	0.020	3135	0.0071	2.29
SUT2R7M100YSG25		10	10x25	55	83	1.25	7.40	0.030	3263	0.0101	3.12
SUT2R7M100YSG30		10	10x30	45	68	1.51	8.06	0.032	3482	0.0101	2.72
SUT2R7M100YSX20		10	12.5x20	45	68	1.42	8.06	0.032	3186	0.0101	2.49
SUT2R7M120YSX25		12	12.5x25	40	60	1.66	9.42	0.040	3393	0.0122	2.83
SUT2R7M150YSX30		15	12.5x30	35	53	1.93	11.33	0.055	3341	0.0152	3.05
SUT2R7M250YSJ25		25	16x25	25	38	2.41	17.42	0.078	2794	0.0253	3.03
SUT2R7M300YSJ30		30	16x30	20	30	2.92	21.32	0.085	3149	0.0304	3.28
SUT2R7M500YSK40		50	18x40	16	24	3.96	30.68	0.120	2526	0.0506	3.51
SUT2R7M101YSK60		100	18x60	13	20	5.30	45.76	0.250	2035	0.1013	4.59

• 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)						
SUT2R7Q101TZM45	2.7	100	22x45	8.0	11.2	6.84	63.68	0.250	3427	0.1013	4.44
SUT2R7Q121TZM50		120	22x50	7.5	10.5	7.40	71.68	0.300	2911	0.1215	4.25
SUT2R7Q151TZN50		150	25x50	7.0	9.8	8.22	81.98	0.400	2552	0.1519	4.34
SUT2R7Q221TZO50		220	30x50	6.0	8.4	9.83	104.28	0.500	2208	0.2228	4.72
SUT2R7Q251TZO55		250	30x55	5.5	7.7	10.71	115.38	0.600	2330	0.2531	5.19
SUT2R7Q361TZP60		360	35x60	4.0	5.4	14.49	165.08	0.800	2153	0.3645	4.84
SUT2R7Q401TZP66		400	35x66	3.5	4.7	16.15	186.85	1.000	2055	0.4050	4.50