

Aluminum Electrolytic Capacitor

ST series

- Miniature, long life 5000 hours, 105°C product.
- Applicable to small electronic devices.
- Height: 7 mm.
- RoHS Compliance
- 105°C 5000小時、小型化長壽命產品。
- 適用於小型電子設備。
- 高度：7mm系列。

SPECIFICATIONS

Items 項目	Characteristics 特性						
Capacitance Tolerance 靜電容量誤差	± 20%(120Hz,20°C)						
Operating Temperature Range 適用溫度範圍	-40 ~ +105°C						
Rated Voltage Range 額定電壓範圍	6.3 ~ 50VDC						
Leakage Current 洩漏電流	I ≤ 0.01CV or 3 (μA) which is greater.(After 2 minutes application of DC rated voltage, at 20 °C)						
Dissipation Factor 散逸因素(tan δ)	Measurement Frequency: 120Hz. Temperature: 20°C						
	Rated Voltage(V)	6.3	10	16	25	35	50
	tan δ(Max)	0.24	0.20	0.17	0.15	0.13	0.12
Low Temperature Stability 低溫特性 Impedance Ratio(Max) 阻抗比率(最大值)	Measurement Frequency: 120Hz.						
	Rated Voltage(V)	6.3	10	16	25	35	50
	Z(-25°C)/Z(20°C)	4	3	2	2	2	2
	Z(-40°C)/Z(20°C)	8	6	4	3	3	3
Load Life 負荷壽命	5000hours,with application of rated voltage at 105°C						
	Capacitance Change	Within ± 30% of Initial Value					
	tan δ	300% or less of Initial Specified Value					
	Leakage Current	Initial Specified Value or less					
Shelf Life 放置壽命	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours 105°C without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to them 4.1 of JIS C5101-4.						
	Capacitance Change	Within ± 30% of Initial Value					
	tan δ	300% or less of Initial Specified Value					
	Leakage Current	Initial Specified Value or less					
Standards 參照標準	JIS C 5101-4 (IEC 60384)						

Frequency Coefficient of Permissible Ripple Current

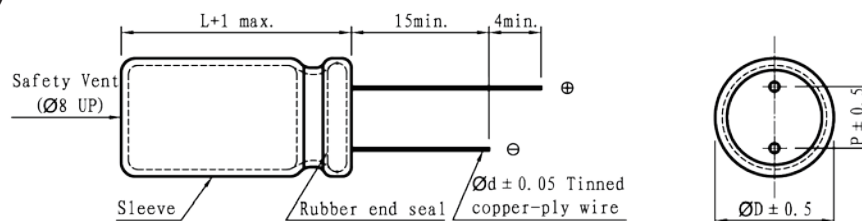
Frequency (Hz)	50	120	1K	$\geq 10K$
Coefficien	0.65	1.00	1.37	1.50

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. When long life performance is required in actual use , the rms ripple current has to be reduced.

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DIMENSIONS(mm)



ϕD	4	5	6.3	8
P	1.5	2.0	2.5	3.5
ϕd	0.45	0.5	0.5	0.5

STANDARD RATINGS

D×L(mm) ; R.C.(mA rms) at 105°C 120Hz.

Cap (μF)	V (Code)	6.3 (0J)		10 (1A)		16 (1C)	
	Item	D x L	R.C.	D x L	R.C.	D x L	R.C.
10						4x7	29
22		4x7	35	5x7	42	5x7	46
33		5x7	43	5x7	50	6.3x7	58
47		5x7	50	6.3x7	60	6.3x7	70
100		6.3x7	76	8x7	96	8x7	110
220		8x7	131				

Cap (μF)	V (Code)	25 (1E)		35 (1V)		50 (1H)	
	Item	D x L	R.C.	D x L	R.C.	D x L	R.C.
0.1						4x7	1.5
0.22						4x7	2.5
0.33						4x7	3.5
0.47						4x7	5
1						4x7	12
2.2						4x7	21
3.3						4x7	26
4.7				4x7	26	5x7	31
10		5x7	36	5x7	36	6.3x7	46
22		6.3x7	52	6.3x7	60	8x7	67
33		6.3x7	65	8x7	75		
47		8x7	80				