

ALUMINUM ELECTROLYTIC CAPACITORS

Suntan®

CHIP TYPE SERIES

TS13C9

FEATURES

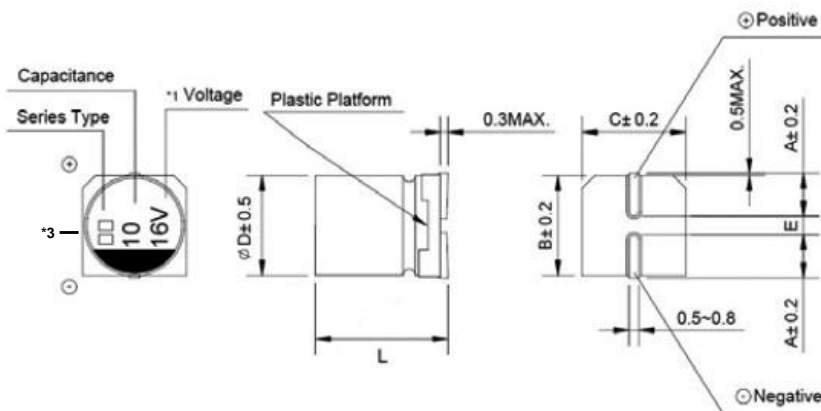
- Low leakage current (0.5~3.3 μ A max.)
- 105°C 2,000hours Solvent proof (within 2 minutes)



SPECIFICATIONS

I T E M S		C o n d i t i o n		S p e c i f i c a t i o n s					
Rated voltage (V)	-			6.3	10	16	25	35	50
Surge voltage (V)	Room temperature			8.0	13	20	32	44	63
Category temperature range (°C)	-			-40 to +105					
Capacitance tolerance (%)	120Hz/20°C			M : \pm 20					
Dissipation Factor (Tan δ)	tan δ (max) 120Hz/20°C			0.24	0.20	0.18	0.16	0.14	0.12
Leakage current (LC)	μ A/after 2minutes (max)			The greater value of either 0.002CV or 0.5 μ A					
Impedance ratio at low temperature	Based on the value at 120Hz, +20°C	-25°C	Z/Z20°C	4	3	2	2	2	2
		-40°C	Z/Z20°C	10	7	5	3	3	3
Endurance	105°C, 2,000hours rated voltage applied (With the rated ripple current)	Δ C/C		Within \pm 20% of the initial value					
		tan δ		Less than 200% of the specified value					
		LC		Less than the specified value					

DRAWING(Unit: mm)



*1 Voltage mark for 6.3V is [6V] or [6.3V]

*3 Markings: Su9, S9, SC

DIMENSIONS(Unit:mm)

$\phi D \times L$	4x5.4	5x5.4	6.3x5.4	6.3x7.7
A	2.0	2.2	2.6	2.6
B	4.3	5.3	6.6	6.6
C	4.3	5.3	6.6	6.6
E \pm 0.2	1.0	1.3	2.2	2.2
L \pm 0.6	5.4	5.4	5.4	7.7

TS13C9

◆ **DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT & ESR**

wv Parameter uF		6.3(0J)			10(1A)			16(1C)		
		Case Size ØDxL (mm)	Impedance (Ω) max at 120Hz, 20°C	Rated ripple current mArms (120Hz, 105°C)	Case Size ØDxL (mm)	Impedance (Ω) max at 120Hz, 20°C	Rated ripple current mArms (120Hz, 105°C)	Case Size ØDxL (mm)	Impedance (Ω) max at 120Hz, 20°C	Rated ripple current mArms (120Hz, 105°C)
10	100						4×5.4	34.5	25	
22	220	4×5.4	23.5	31	5×5.4	19.6	35	5×5.4	15.7	39
33	330	5×5.4	15.7	39	5×5.4	13.1	43	6.3×5.4	10.5	57
47	470	5×5.4	11.0	47	6.3×5.4	9.2	59	6.3×5.4	7.3	68
100	101	6.3×5.4	5.2	75	6.3×5.4	4.3	76	6.3×7.7	3.5	96
220	221	6.3×7.7	2.4	85						

◆ **DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT & ESR**

wv Parameter uF		25(1E)			35(1V)			50(1H)		
		Case Size ØDxL (mm)	Impedance (Ω) max at 120Hz, 20°C	Rated ripple current mArms (120Hz, 105°C)	Case Size ØDxL (mm)	Impedance (Ω) max at 120Hz, 20°C	Rated ripple current mArms (120Hz, 105°C)	Case Size ØDxL (mm)	Impedance (Ω) max at 120Hz, 20°C	Rated ripple current mArms (120Hz, 105°C)
1.0	010						4×5.4	216	10	
2.2	2R2						4×5.4	98	15	
3.3	3R3						4×5.4	65	18	
4.7	4R7	4×5.4	64.2	19	4×5.4	55.1	20	5×5.4	46	23
10	100	5×5.4	30.2	28	5×5.4	25.9	30	6.3×5.4	22	34
22	220	6.3×5.4	13.7	52	6.3×5.4	11.8	54	6.3×7.7	9.8	85
33	330	6.3×5.4	9.1	63	6.3×7.7	7.8	105			
47	470	6.3×7.7	6.4	100	6.3×7.7	5.5	110			

◆ **Ripple Current Frequency Coefficient**

Frequency:F(Hz)	50Hz	120Hz	300Hz	1KHz	10kHz≤F
Capacitance:C(μF) All ITEM	0.70	1.00	1.17	1.30	1.50

Note: Specification are subject to change without notice. For more detail and update, please visit our website.