

ALUMINUM ELECTROLYTIC CAPACITORS

Suntan®

CHIP TYPE SERIES

TS13C7

FEATURES

- 105°C 5,000hours
- Solvent proof (within 2 minutes)

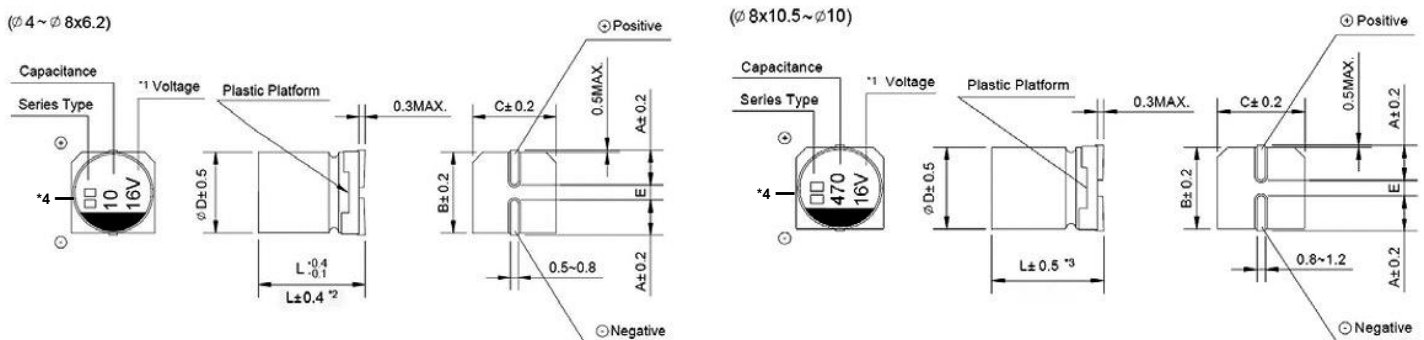
5000 Hours Load Life Assurance



◆ Specifications

I T E M S		C O N D I T I O N S			S P E C I F I C A T I O N S								
Rated voltage (V)	-				6.3	10	16	25	35	50	63	80	100
Surge voltage (V)	Room temperature				8.0	13	20	32	44	63	79	100	125
Category temperature range (°C)	-				-55 to +105								
Capacitance tolerance (%)	120Hz/20°C				M : ±20								
Dissipation Factor (Tan δ)	tanδ (max) 120Hz/20°C	Ø4~Ø10			0.30	0.24	0.20	0.18	0.16	0.14	0.14	0.14	0.14
		Ø12.5~Ø16			0.38	0.34	0.30	0.28	0.22	0.18	0.16	0.16	0.16
					Exceeding 1,000µF, +0.02 every 1,000µF								
Leakage current (LC)	µA/after 2minutes (max)				The greater value of either 0.01CV or 3µA								
Impedance ratio at low temperature	Based on the value at 120Hz, +20°C	-25°C	Z/Z20°C		7	4	3	2	2	2	2	2	2
		-55°C	Z/Z20°C		15	8	6	4	4	4	3	3	3
Endurance	105°C, 5,000hours rated voltage applied (With the rated ripple current)	ΔC/C			Within ±30% of the initial value								
		tanδ			Less than 300% of the specified value								
		LC			Less than the specified value								

◆ DRAWING (Unit:mm)



- *1 Voltage mark for 6.3V is [6V] or [6.3V]
- *2 Applicable to Ø6.3x7.7
- *3 Applicable to Ø8x10.5~ Ø10
- *4 Markings: Su7, S7, KL

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◆ **DIMENSIONS(Unit:mm)**

ØD×L	4×5.8	5×5.8	6.3×5.8	6.3×7.7	8×10.5	10×10.5	10×13.5	12.5×13.5	12.5×16	16×16.5
A	2.0	2.2	2.6	2.6	3.0	3.3	3.3	4.7	4.7	5.5
B	4.3	5.3	6.6	6.6	8.3	10.3	10.3	13.0	13.0	17.0
C	4.3	5.3	6.6	6.6	8.3	10.3	10.3	13.0	13.0	17.0
E±0.2	1.0	1.3	2.2	2.2	3.1	4.4	4.4	4.4	4.4	6.4
L	5.8	5.8	5.8	7.7	10.5	10.5	13.5	13.5	16.0	16.5

◆ **DIMENSIONS&MAXIMUM PERMISSIBLE RIPPLE CURRENT**

WV Cap.(µF)		6.3		10		16		25		35	
		0J		1A		1C		1E		1V	
4.7	4R7									4×5.8	16
10	100					4×5.8	18	5×5.8	27	5×5.8	27
22	220	4×5.8	22	5×5.8	30	5×5.8	30	6.3×5.8	44	6.3×5.8	44
33	330	5×5.8	35	5×5.8	36	6.3×5.8	48	6.3×5.8	50	6.3×7.7	57
47	470	5×5.8	40	6.3×5.8	50	6.3×5.8	50	6.3×7.7	63	8×10.5	92
100	101	6.3×5.8	65	6.3×7.7	80	6.3×7.7	80	8×10.5	120	8×10.5	130
150	151	6.3×7.7	85	8×10.5	125	8×10.5	125	10×10.5	220	10×10.5	290
220	221	6.3×7.7	120	8×10.5	140	8×10.5	140	10×10.5	220	10×10.5	320
330	331	8×10.5	220	8×10.5 10×10.5	220 290	10×10.5	290	10×10.5	320		
470	471	10×10.5	320	10×10.5	320	10×10.5	320				
680	681	10×10.5	320	10×10.5	320						
1000	102	10×10.5	410							Case Size	Ripple Current

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WV Cap.(μF)		50		63		80		100	
		1H		1J		1K		2A	
0.47	R47	4×5.8	5						
1.0	010	4×5.8	8						
2.2	2R2	4×5.8	12						
3.3	3R3	4×5.8	17					6.3×7.7	30
4.7	4R7	5×5.8	22					6.3×7.7	40
10	100	6.3×5.8	32	6.3×7.7	45	8×10.5	55	8×10.5	55
22	220	6.3×7.7	58	8×10.5	65	8×10.5	65	10×10.5	70
33	330	8×10.5	65	10×10.5	80	10×10.5	80	10×10.5	80
47	470	8×10.5	90	10×10.5	110	10×10.5	110		
100	101	10×10.5	160					Case Size	Ripple Current

Case Size ØD×L(mm), ripple current(mA rms) at 105°C 120Hz

◆ Frequency coefficient of allowable ripple current

Frequency:F(Hz)		100≤F<1k	1k≤F<10k	10k≤F<100k	100k≤F
Capacitance:C(μF)	C≤4.7	1.00	1.30	1.50	1.80
	4.7<C≤33	1.00	1.20	1.30	1.45
	33<C	1.00	1.10	1.20	1.30

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