

ALUMINUM ELECTROLYTIC CAPACITORS

Suntan®

CHIP TYPE SERIES

TS13C8

FEATURES

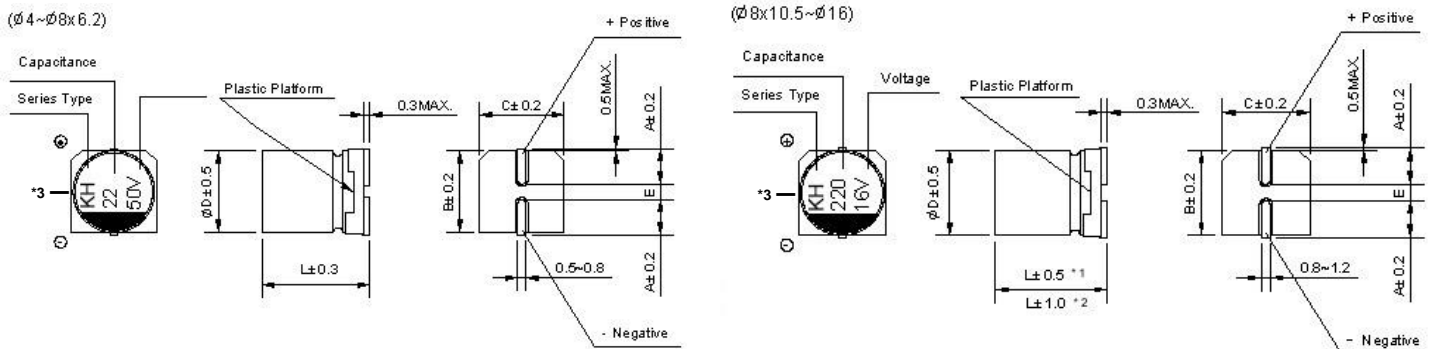
- 125°C 1,000 to 2,000 hours
- Solvent proof (within 2 minutes)



◆ 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	63	100
Surge voltage (V)	Room temperature			8.0	13	20	32	44	63	79	125
Category temperature range (°C)	-			-40 to +125							
Capacitance tolerance (%)	120Hz/20°C			M : ±20							
Dissipation Factor (Tan δ)	tanδ (max) 120Hz/20°C			0.30	0.24	0.20	0.18	0.16	0.14	0.12	0.12
				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	4	3	2	2	2	2	2	2
		-40°C	Z/Z20°C	8	6	4	3	3	3	3	3
Endurance	125°C rated voltage applied (With the rated ripple current)	Test		φ D=6.3 : 1,000hours. φ8 to φ16 : 2,000hours							
		ΔC/C		Within ±30% of the initial value							
		tanδ		Less than 300% of the specified value							
		LC		Less than the specified value							

◆ Chip type



*1 [L±0.5] is applicable to Φ8×10.5~Φ10; *2 [L±1.0] is applicable to Φ12.5~Φ16. *3 Markings: Su8, KH, VH *Voltage mark for 6.3V is [6V] or [6.3V]

	(mm)					
D×L	Φ6.3×5.8	Φ6.3×7.7	Φ8×10.5	Φ10×10.5	Φ12.5×13.5	Φ16×16.5
A	2.4	3.3	2.9	3.2	4.7	5.5
B	6.6	6.6	8.3	10.3	13.0	17.0
C	6.6	6.6	8.3	10.3	13.0	17.0
E±0.2	2.2	2.2	3.1	4.4	4.4	6.4
L	5.8	7.7	10.5	10.5	13.5	16.5

TS13C8

◆ Ripple Current Frequency Coefficient

Frequency:F(Hz)		100≤F<1k	1k≤F<10k	10k≤F<100k	100k≤F
Capacitance:C(μF)	C≤22	0.50	0.80	0.90	1.00
	22<C≤150	0.65	0.85	0.92	1.00
	150<C	0.70	0.85	0.95	1.00

◆ Standard size & Maximum permissible ripple current

WV Cap. (μF)		6.3			10			16			25		
		0J			1A			1C			1E		
33	330										6.3×5.8	1.60	70
47	470				6.3×5.8	1.60	70	6.3×5.8	1.60	70	6.3×7.7	0.90	110
100	101	6.3×5.8	1.60	70	6.3×7.7	0.90	110	6.3×7.7 (8×10.5)	0.90 (0.40)	110 (160)	6.3×7.7 (8×10.5)	0.90 (0.40)	110 (160)
220	221	6.3×7.7	0.90	110	6.3×7.7 (8×10.5)	0.90 (0.40)	110 (160)	8×10.5	0.40	160	8×10.5 (10×10.5)	0.40 (0.30)	160 (296)
330	331	8×10.5	0.40	160	8×10.5	0.40	160	10×10.5	0.30	296	10×10.5	0.30	296
470	471	8×10.5	0.40	160	10×10.5	0.30	296						
680	681	10×10.5	0.30	296							Case Size	ESR(Ω) 20°C	Ripple Current

ESR (Ω) max at 100kHz, 20°C
Rated ripple current mArms (100kHz, 125°C)

◆ Standard size & Maximum permissible ripple current

WV Cap. (μF)		35			50			63			100		
		1V			1H			1J			2A		
2.2	2R2				6.3×5.8	3.50	45						
3.3	3R3				6.3×5.8	3.50	45						
4.7	4R7	6.3×5.8	2.00	60	6.3×5.8	3.50	45						
10	100	6.3×5.8	1.60	70	6.3×5.8	2.80	50				8×10.5	1.00	70
22	220	6.3×5.8	1.60	70	6.3×7.7	2.00	80	8×10.5	1.00	100	8×10.5	1.00	70
33	330	6.3×7.7	0.90	110	6.3×7.7 (8×10.5)	2.00 (0.70)	80 (140)	8×10.5	1.00	100	10×10.5	0.80	115
47	470	6.3×7.7 (8×10.5)	0.90 (0.40)	110 (160)	8×10.5 (10×10.5)	0.70 (0.50)	140 (247)	8×10.5 (10×10.5)	1.00 (0.50)	100 (150)			
100	101	8×10.5 (10×10.5)	0.40 (0.30)	160 (296)	10×10.5	0.50	247	10×10.5	0.50	150			
220	221	10×10.5	0.30	296							Case Size	ESR(Ω) 20°C	Ripple Current

ESR (Ω) max at 100kHz, 20°C
Rated ripple current mArms (100kHz, 125°C)