Aluminum Electrolytic Capacitors

CTV series

- Chip type with $8\Phi \sim 16\Phi$, $125^{\circ}C$, 5000 hours, long life product, Anti-Vibration
- Designed for automobile modules and other high temperature applications
- AEC-Q200 Compliant
- RoHS Compliant

SPECIFICATIONS

Items	Characteristics								
Capacitance Tolerance	±20% (120Hz , 20°C)								
Operating Temperature Range	-40°C ~ + 125°C								
Rated Voltage Range		16 ~ 50VDC							
Capacitance Range		33 ~ 220	OuF						
Leakage Current	I≦ C	I≦ 0.01CV or 3(μA), which is greater.							
		tes application of	•	e at 20°C)					
	Measurement Frequency:120H			,					
Dissipation Factor (tan δ)	Rated Voltage(V)	16	25	35	50				
	tanδ (Max)	0.20	0.20	0.14	0.14				
Low Temperature Stability	Measurement Frequency:120Hz								
	Rated Voltage(V)	16	25	35	50				
Impedance Ratio(Max)	Z(-25°C) / Z(20°C)	5	2	2	2				
	Z(-40°C) / Z(20°C)	8	4	3	3				
	Φ6.3~Φ10: 2000 hours; Φ12.5: 3000 hours; Φ16: 5000 hours with application of rated voltage at 125°C								
Load Life	Capacitance Change within ±30% of Initial Value								
	tan δ 300% or less of Initial Specified Value								
	Leakage Current Initial Specified Value or less								
	The following specifications shall be satisfied when the capacitors are restored to 20°C after								
	exposing them for 1000 hours 125°C without voltage applied. Before the measurement, the								
Shelf Life	capacitance 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								
Resistance to Soldering Heat	The capacitors shall be kept on the	Capacitan	Capacitance Within ± 10%						
	maintained at 250°C for 30 second	Change	Change of Initial Value						
	After removing from the hot plate a	tan δ	tan δ Initial Specified V						
	room temperature, they meet the	Leakage	•						
	requirements listed at right. Current less								
Marking	Black print on the case top								

Frequency Coefficient of Permissible Ripple Current

Frequency (Hz) Capacitance (µF)	100≦F < 1K	1K≦F < 10K	10K≦F < 100K	100K ≦ F
Coefficient	0.60	0.85	0.93	1.00

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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Su'scon

DIMENSIONS(mm)

Chip Type



Size	ΦD	L	w	н	С	R	Р	S	т	Vmax
8*10.5	8.0	10.5±0.5	8.3	8.3	9.0	0.7~1.1	3.2	0.7	1.3	0.3
10*10.5	10.0	10.5±0.5	10.3	10.3	11.0	1.0~1.4	4.5	0.7	1.3	0.3
12.5*13.5	12.5	13.5±1	13.5	13.5	14.2	1.0~1.4	4.5	2.2	2.4	0.4
16*16.5	16.0	16.5±1	17.0	17.0	18.0	1.4~1.8	6.4	3.0	2.0	0.4
18*21.5	18	21.5±1	19.0	19.0	20.0	1.4~1.8	6.4±0.2	4.0±0.5	2.0±0.5	0.4

Land / Pad pattern



DxL	Α	В	С	
Φ4	1	2.6	1.6	
Φ5	1.4	3	1.6	
Φ6.3	1.9	3.5	1.6	
Ф8	3	3.5	2.5	
Φ10	4	4	2.5	
Φ12.5	4.3	5.8	2.5	
Φ16	6.6	6.5	5	
Φ18	6.6	7.7	5	
Φ8(G)	2.5	4.5	4.7	
Ф10(G)	3.8	4.8	4.7	
Φ12.5(G)	3.8	6.1	6.9	
Ф16(G)	5	8	9.5	
Φ18(G)	5	8.6	9.5	

"(G)" "Anti-vibration Structure"

Electric Characteristics											
Su'scon	Cap.	Сар.	Rate	Surge	Oper.	Nominal	Leakage	D.F.	R.C	IMP	Load
	(uF)	Tol.	Volt.	Volt.	Temp.	Case Size	Current	MAX	100KHz	100KHz	Life
P/N		(%)	(V-DC)	(V-DC)	(°C)	D*L(mm)	Max (uA)	(%)	(mA rms)	at 25℃(Ω)Max	(hours)
CTV035M151GABPE50V00R	150	±20	35	40.3	125	10*10.5	52	14	500	0.150	2000
REMARKS: 1. Dissipation Factor Test: at 20°C, 120 Hz 2. Capactitance Test: at 20°C, 120 Hz 3. Ripple Current Test: at 125°C, 100K Hz 4. Leakage Current: Initial specified value or less 5. When have characteristic requested: Load life & shelf life test and etc., judgment standard reference to our catalogue. 6. Remarks: Su'scon Part Number with suffix code "A" is specially offered for automotive project, which meets AEC-Q200 standard.											

CTV-REV.1

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