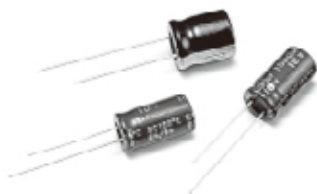


Miniature Size Aluminum Electrolytic Capacitors

SV [For adapter and power supply applications Series]

105°C Single-Ended Lead Aluminum Electrolytic Capacitors For High Frequency Applications



DESCRIPTION

Used in switching regulator applications in computers. Especially for high frequency.

Low impedance and E.S.R., high permissible ripple current at high frequency and higher operating temperature (-40°C to +105°C).

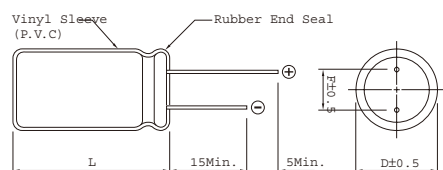
Frequency coefficient

Frequency(Hz)	120	500	1K	10K-100K
Coefficient	1.00	1.20	1.40	1.50

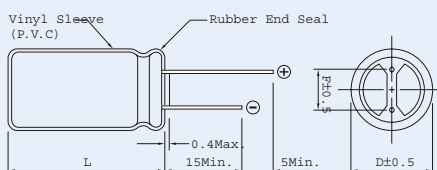
Temperature coefficient

Temperature(°C)	65	85	105
Factor	2.10	1.70	1.00

DIAGRAM OF DIMENSIONS



Rubber Stand-off



$L \leq 16 : L + 1.5\text{max}$
 $L > 16 : L + 2\text{max}$
 $D\phi = 8 \& 10 : L + 2.5$

$D\phi < 20 : D\phi + 0.5$
 $D\phi \geq 20 : D\phi + 1$

Dimensions : mm

Dø	F	dø
4.0	1.5	0.45
5.0	2.0	0.5
6.0	2.5	
8.0	3.5	
10.0	5.0	0.6
12.0		
13.0		
16.0	7.5	0.8
18.0		
22.0	10.0	0.8

ELECTRICAL CHARACTERISTICS

Operating Temperature : -40° ~ +105°C -25° ~ +105°C

Working Voltage : 160V 450V

Rate Capacitance Range : 22 ~ 220µF 10 ~ 150µF

Capacitance Tolerance : -20 ~ +20%

DC Leakage Current (µA) : I = 0.06 CV + 10(µA)

whichever is greater.(After 2 minutes application of rated voltage at 25°C)

Dissipation Factor : at 120 Hz, 25°C

WV (V) :	160	200	250	350	400	450
D.F. (%) :	15	15	15	20	20	20

WV (V) :		200	400
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Impedance :	Z - 25°C / Z + 20°C	3	5
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Impedance :	Z - 40°C / Z + 20°C	6	
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Load Life : After apply rated voltage with rated ripple current for 2000hrs at 105°C the capacitors shall meet the following requirements.

(a) Capacitance Change : Within 20% of Initial Value

(b) Dissipation Factor : Not Exceed 200% of Initial Requirement

(c) Leakage Current : Not Exceed the Initial Requirement

Shelf Life : 1000 Hours, No Voltage Applied, at 105°C

(a) Capacitance Change : Within 20% of Initial Value

(b) Dissipation Factor : Not Exceed 200% of Initial Requirement

(c) Leakage Current : Not Exceed 200% of Initial Requirement



RoHS
COMPLIANT



CASE SIZE OF STANDARD PRODUCTS $D\varnothing \geq 6\text{mm}$ with Safety Vent at Can Bottom

CAP. (μF)	RATED VOLTAGE WV											
	160		200		250		350		400		450	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
1									8 x 11	60		
									10 x 12	70		
1.5									10 x 12	30		
									10 x 12	30		
1.8									10 x 12	35		
									10 x 12	35		
2.2									10 x 12	40		
									10 x 12	140		
3.3									10 x 12	150		
									10 x 12	180		
4.7					10 x 12	100	10 x 15	55	10 x 15	20	10 x 19.5	220
5.6							10 x 15	58	10 x 15	250	10 x 19.5	250
6.8							10 x 19.5	65	10 x 15	280	10 x 19.5	280
10	10 x 15	320	10 x 15	320	10 x 15	320	10 x 19.5	350	10 x 15	64	13 x 20	450
									10 x 19.5	120		
									13 x 25	200		
15									13 x 20	550	13 x 25	600
22	10 x 19.5	500	10 x 19	233	10 x 19.5	500	13 x 20	650	12 x 25	190		
									13 x 20	225		
									13 x 25	225		
									16 x 25	300		
33	13 x 20	315	13 x 20	366	13 x 20	800			16 x 20	360	16 x 25	980
			10 x 19	366					16 x 25	400		
									16 x 32	437		
47	13 x 25	420	13 x 25	400	16 x 25	500			13 x 30	370	18 x 25	1200
			13 x 20	400					16 x 25	450		
									18 x 25	470		
									18 x 32	538		
68	13 x 20	1180	13 x 25	600			18 x 25	1470	13 x 40	480		
									18 x 25	480		
82							18 x 40	380	16 x 32	520		
									18 x 32	520		
100	13 x 25	1420	16 x 32	800	16 x 25	1530			18 x 32	580		
	16 x 20	1420							16 x 36	540		
120									18 x 32	670		
									18 x 36	670		
150	16 x 25	1890	16 x 36	800	18 x 40	750			18 x 36	770		
220	18 x 25	2370	16 x 36	933								

Note : * 1. D x L : mm

* 2. Ripple Current : (mA r.m.s 105°C / 100KHz), ESR ($M\Omega$ Max25°C / 100KHz)