

# Miniature Size Aluminum Electrolytic Capacitors

# SS [ For Super Miniature ]

105°C Single-Ended Lead Aluminum Electrolytic Capacitors



## DESCRIPTION

This type is designed to meet the demand or equipments for greatly reduced size and thickness, such as: portable micro computer, disk driver, small calculator and audio equipment.

For Detail Specifications, Please Refer to Engineering Bulletin No. 2039

## ELECTRICAL CHARACTERISTICS

Working Voltage : 6.3 ~ 63V

Operating Temperature : -40° ~ +105°C

Rate Capacitance Range : 0.1 ~ 220 $\mu$ F

Capacitance Tolerance : -20 ~ +20%

DC Leakage Current ( $\mu$ A) :  $I = 0.01CV$  ( $\mu$ A) or 3 $\mu$ A Whichever is greater.

( After 2 Minutes Application of DC Working Voltage at 25°C )

Dissipation Factor : at 120 Hz, 25°C

W.V (V) :	6.3	10	16	25	35	50	63
D.F (%) :	24	20	17	15	12	10	8

Load Life : 1000 Hours at 105°C Assured with Full Rated Maximum Ripple Current Applied

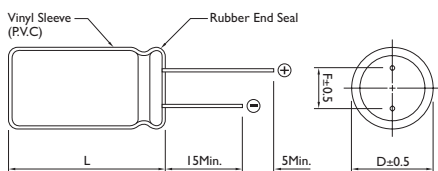
- (a) Capacitance Change : Within 20% of Initial Value
- (b) Dissipation Factor : Not Exceed 200% of Initial Requirement
- (c) Leakage Current : Not Exceed the Initial Requirement

Shelf Life : 500 Hours, No Voltage Applied, at 105°C

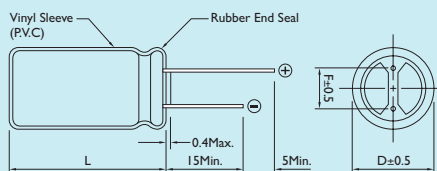
- (a) Capacitance Change : Within 20% of Initial Value
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## DIAGRAM OF DIMENSIONS

Dimensions : mm



## G.R.Y.



$L \leq 12$	$L + 1.5\text{Max.}$
$13 \leq L \leq 15$	$L + 1.0$ $-0.5$
$L \geq 16$	$L + 2.0\text{Max.}$

D $\phi$	F	d $\phi$
4.0	1.5	0.45
5.0	2.0	
6.3	2.5	
8.0	3.5	0.5

## CASE SIZE & PERMISSIBLE RIPPLE CURRENT OF STANDARD PRODUCTS

CAP. (μF)	RATED VOLTAGE WV (SV)													
	6.3 (8)		10 (13)		16 (20)		25 (32)		35 (44)		50 (63)		63 (79)	
0.1											4 x 7	1	4 x 7	1
0.22											4 x 7	2	4 x 7	2
0.33											4 x 7	3	4 x 7	4
0.47											4 x 7	5	4 x 7	6
1.0											4 x 7	10	4 x 7	13
2.2											4 x 7	19	4 x 7	21
3.3											4 x 7	24	4 x 7	26
4.7					4 x 7	19	4 x 7	24	4 x 7	24	4 x 7	29	6 x 7	33
											5 x 7	31		
10					4 x 7	29	4 x 7	33	4 x 7	34	5 x 7	45	6 x 7	50
							5 x 7	35	5 x 7	36				
22	4 x 7	37	4 x 7	31	4 x 7	36	5 x 7	51	6 x 7	57	6 x 7	65		
			5 x 7	38	5 x 7	44	6 x 7	53						
33	5 x 7	42	4 x 7	39	4 x 7	50	6 x 7	65	6 x 7	70				
			5 x 7	47	5 x 7	57								
47	5 x 7	55	5 x 7	60	5 x 7	75	6 x 7	79	6 x 7	81				
					6 x 7	77								
100	5 x 7	75	5 x 7	85	6 x 7	110	6 x 7	120						
	6 x 7	90	6 x 7	100										
220	6 x 7	130	6 x 7	135	8 x 7	140							*1	*2

Note : \* 1. D x L : mm

\* 2. mA rms at 105°C, 120Hz