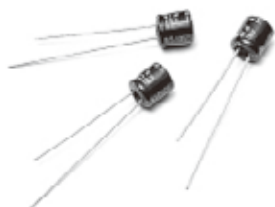


# Miniature Size Aluminum Electrolytic Capacitors

# S5 [ For Super Miniature ]

105°C Single-Ended Lead, 5.0mm Height Type Aluminum Electrolytic Capacitors



## DESCRIPTION

The S5 series are smaller than SS series.

This type is designed for saving space and high density insertion.

Applications : VTR, Camera, Car Audio, Miniaudio and Other Industrial and Commercial Applications

### Multiplier for Ripple Current

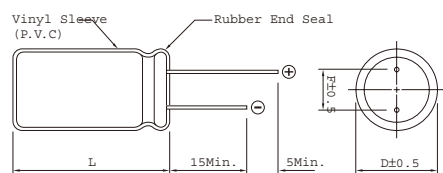
Frequency coefficient

Frequency (Hz)	20	300	1K	10K~100K
0.1~47μF	1.00	1.20	1.30	1.50
100~330μF	1.00	1.10	1.15	1.20

Temperature coefficient

Temperature(°C)	65	85	105
Factor	1.40	1.20	1.00

## DIAGRAM OF DIMENSIONS



## ELECTRICAL CHARACTERISTICS

Operating Temperature : -40° ~ +105°C

Working Voltage : 4 ~ 50V

Rate Capacitance Range : 0.1 ~ 100μF

Capacitance Tolerance : -20 ~ +20%

DC Leakage Current (μA) : I = 0.01CV (μA) or 3μA Whichever is greater.

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

Dissipation Factor : at 120 Hz, 25°C

WV (V) :	4	6.3	10	16	25	35	50
D.F (%) :	35	24	20	17	15	12	10

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

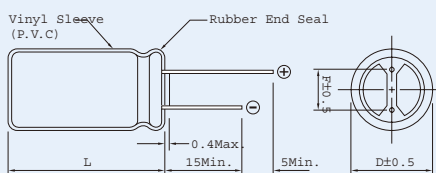
- (a) Capacitance Change : Within 20% of Initial Value
- (b) Dissipation Factor : Not Exceed 200% of Initial Requirement
- (c) Leakage Current : Not Exceed 200% of Initial Requirement



**RoHS**  
COMPLIANT

Dimensions : mm

### Rubber Stand-off



L ≤ 16 : L+1.5max  
L > 16 : L+2max  
Dø = 8&10 : L+2.5

Dø < 20 : Dø+0.5  
Dø ≥ 20 : Dø+1

Dø	F	dø
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													
	4		6.3		10		16		25		35		50	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.1													4 x 5	1
0.22													4 x 5	2
0.33													4 x 5	3
0.47													4 x 5	4
1.0													4 x 5	6
2.2													4 x 5	11
3.3													4 x 5	14
4.7							4 x 5	20	4 x 5	13	4 x 5	15		
													5 x 5	19
10			4 x 5	18	4 x 5	15	4 x 5	18	4 x 5	23	5 x 5	25	6 x 5	30
									5 x 5	23			5 x 5	29
22	4 x 5	22	4 x 5	22	5 x 5	27	4 x 5	29	6 x 5	38	6 x 5	48	6.3 x 5	45
			5 x 5	22			5 x 5	30						
33	5 x 5	30	5 x 5	30			5 x 5	40	5 x 5	48				
					5 x 5	35	6 x 5	40	6 x 5	48				
47	5 x 5	36	5 x 5	36	5 x 5	46	5 x 5	50						
			5 x 5	36	6 x 5	46	6 x 5	50	6.3 x 5	65				
68														
100	6 x 5	60	6 x 5	60	6 x 5	80	6 x 5	50						
220	6 x 5	60	6 x 5	90										
330			8 x 5	115										

Note : \* 1. D x L : mm

\* 2. Size : 6 x 5 Actually is 6.3 x 5

\* 3. mA rms at 105°C, 120Hz