

# Miniature Aluminum Electrolytic Capacitors

# SN [ For Non Polar ]

105°C Single-Ended Lead Aluminum Electrolytic Capacitors For Non-Polar General Purpose



## DESCRIPTION

Non-polar miniature type for used in reversing polarity DC voltage circuits.

### Frequency coefficient

Frequency(Hz)	60	120	300	1K	10K~100K
Factor	0.75	1.00	1.20	1.32	1.65

### Temperature coefficient

Temperature(°C)	65	85	105
Factor	1.30	1.20	1.00

## ELECTRICAL CHARACTERISTICS

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

Working Voltage : 6.3 ~ 100V

Rate Capacitance Range : 0.47 ~ 2200μF

Capacitance Tolerance : -20 ~ +20%

DC Leakage Current (μA) : I = 0.03 CV + 3μA

( After 5 Minutes Application of DC Working Voltage at 25°C )

Dissipation Factor : at 120Hz, 25°C

WV (V) :	6.3	10	16	25	35	50	100
D.F (%) :	24	20	17	15	14	12	10

For capacitor whose capacitance exceeds 1000μF. The value of D.F(%) is increased by 2% for every addition of 1000μF.

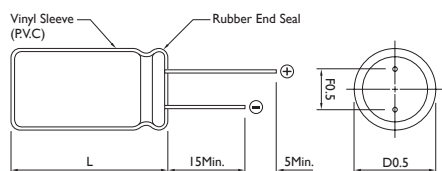
Load Life : 1000 Hours at 105°C with the Polarity Inverted Every 250 Hours

- (a) Capacitance Change : Within 25% of Initial Value
- (b) Dissipation Factor : Not Exceed 150% of Initial Requirement
- (c) Leakage Current : Not Exceed the Initial Requirement

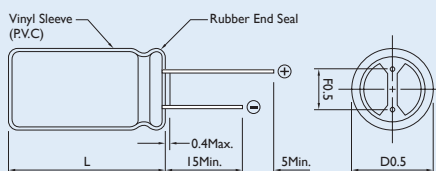
Shelf Life : 500 Hours, No Voltage Applied, at 105°C

- (a) Capacitance Change : Within 25% of Initial Value
- (b) Dissipation Factor : Not Exceed 200% of Initial Requirement
- (c) Leakage Current : Not Exceed 200% of Initial Requirement

## DIAGRAM OF DIMENSIONS



### 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

Dimensions : mm

Dø	F	dø
4.0	1.5	0.45
5.0	2.0	0.5
6.3	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



## CASE SIZE & PERMISSIBLE RIPPLE CURRENT OF STANDARD PRODUCTS

CAP. (μF)	RATED VOLTAGE WV																	
	6.3		10		16		25		35		50		63		80		100	
	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE
0.22											5x11	5						
0.47											5x11	11	5x11	11	5x11	11	5x11	14
0.68																		
1											5x11	17	5x11	17	5x11	17	5x11	21
1.5																		
2.2											5x11	25	5x11	25	5x11	29	6.3x11	34
3.3											5x11	31					8x11	49
													6.3x11	37	6.3x11	39	8x11	49
									5x11	34	5x11	34	5x11	37	8x11	47	8x11	58
													6.3x11	41	6.3x11	44		
4.7					6.3x11	42	5x11	42	6.3x11	54	6.3x11	56	8x11	74	10x12	88	8x11	80
10							6.3x11	50			8x11	70					10x12	100
			5x11	57	5x11	57	6.3x11	69	8x11	94	6x11	75	8x11	95	10x19.5	150	13x20	180
22					6.3x11	69	8x11	86			8x11	97	10x15	130				
											10x12	115						
33	5x11	63	6.3x11	77	8x11	98	8x11	105	10x12	125	8x11	110	8x11	115	13x20	205	13x20	220
											10x15	150	10x19.5	175				
47	6.3x11	84	6.3x11	93	8x11	115	10x12	140	10x15	165	8x11	130	13x20	230	13x20	245	13x25	285
											10x19.5	190						
68																		
100	8x11	140	8x11	193	8x11	140	10x19.5	240	13x20	285	13x20	310	16x25	410	16x25	435	16x32	510
					10x12	175												
					10x15	205			10x15	230								
220	10x12	235	10x15	255	10x19.5	330	13x20	390	16x25	520	16x25	570	16x32	660				
330	10x15	310	10x19.5	380	13x20	445	16x25	580	16x25	630	16x36	790						
470	10x19.5	400	13x20	470	13x25	570	16x25	690	16x32	820								
1000	13x25	690	16x25	885	16x32	1020												
2200	16x32	1250	16x36	1450														

Note : \* 1. D x L : mm

\* 2. Ripple Current mA rms at 105°C, 120KHz