

Miniature Aluminum Electrolytic Capacitors

S5 [For Super Miniature]

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

ELECTRICAL CHARACTERISTICS

Operating Temperature Range : -40 ~ +105°C

Rated Voltage Range : 4 ~ 50V

Rated Capacitance Range : 0.1 ~ 470μF

Capacitance Tolerance : -20 ~ +20% at 120Hz, 20°C

DC Leakage Current (μA) : $I = 0.01CV$ (μA) or 3μA whichever is greater.
(After Rated Voltage Applied for 2 Minutes)

Dissipation Factor : at 120 Hz, 20°C

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

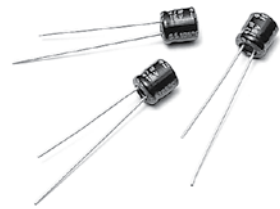
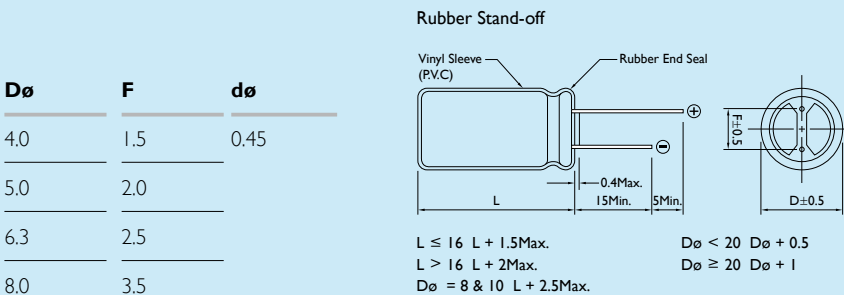
Endurance : After the rated voltage has been applied at 105°C for 1000 hours, the capacitors shall meet following requirements.

- (a) Capacitance Change : Within 20% of Initial Value
- (b) Dissipation Factor : 200% or Less of Initial Specified Value
- (c) Leakage Current : Initial Specified Value or Less

Shelf Life : After leaving capacitors under load at 105°C for 500 hours.

- (a) Capacitance Change : Within 20% of Initial Value
- (b) Dissipation Factor : 200% or Less of Initial Specified Value
- (c) Leakage Current : 200% or Less of Initial Specified Value

DIAGRAM OF DIMENSIONS



DESCRIPTION

The S5 series is smaller than SS series.

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

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

MULTIPLIER FOR RIPPLE CURRENT

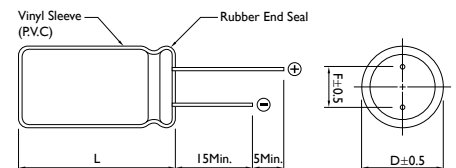
Frequency Coefficient

FREQUENCY (Hz)	120	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

Dimensions: mm





CASE SIZE & PERMISSIBLE RIPPLE CURRENT OF STANDARD PRODUCTS

D x L: mm

CAP. (μF)	RATED VOLTAGE WV (SURGE VOLTAGE WV)													
	4 (5) SIZE		6.3 (8) SIZE		10 (13) SIZE		16 (20) SIZE		25 (32) SIZE		35 (44) SIZE		50 (63) SIZE	
	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE
0.10													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	9
2.2													4 x 5	13
3.3													4 x 5	17
4.7							4 x 5	20	4 x 5	16	4 x 5	18	4 x 5	17
													5 x 5	20
10			4 x 5	18	4 x 5	20	4 x 5	23	4 x 5	20	5 x 5	30	6.3 x 5	33
15									5 x 5	27				
22	4 x 5	20	4 x 5	28	5 x 5	33	4 x 5	29	6.3 x 5	42	6.3 x 5	48	6.3 x 5	55
							5 x 5	37						
33	4 x 5	25	4 x 5	33	4 x 5	34	5 x 5	44	5 x 5	45				
					5 x 5	41	6.3 x 5	49	6.3 x 5	53				
47	5 x 5	30	4 x 5	35	5 x 5	46	5 x 5	54	5 x 5	55				
			5 x 5	45			6.3 x 5	58	6.3 x 5	65				
68					6.3 x 5	54								
100	6.3 x 5	50	5 x 5	55	6.3 x 5	80	6.3 x 5	85	8 x 5	90				
			6.3 x 5	70										
220	6.3 x 5	70	6.3 x 5	90										
330	8 x 5	110	8 x 5	115										
470			8 x 5	100										

Note: I. Ripple Current: (mA/rms) 105°C, 120Hz