



SS Series

Features

- 85°C, 1,000 hours assured
- Standard micro miniature size with 5mm height
- RoHS Compliance

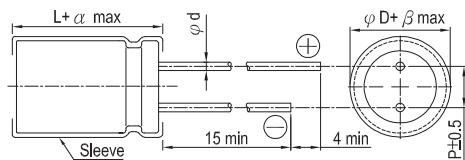
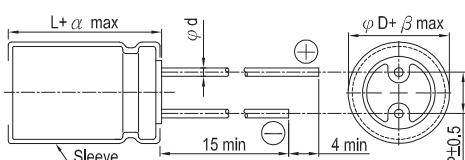


Sleeve & Marking Color: Black & White

Specifications

Items	Performance													
Category Temperature Range	-40°C ~ +85°C													
Capacitance Tolerance	±20% (at 120Hz, 20°C)													
Leakage Current (at 20°C)	I = 0.01CV or 3 (μA) whichever is greater (after 2 minutes) Where, C = rated capacitance in μF, V = rated DC working voltage in V													
Tanδ (at 120Hz, 20°C)	Rated Voltage	4	6.3	10	16	25	35	50						
	Tanδ (max)	0.35	0.25	0.20	0.17	0.15	0.13	0.10						
Low Temperature Characteristics (at 120Hz)		Impedance ratio shall not exceed the values given in the table below.												
		Rated Voltage	4	6.3	10	16	25	35						
		Impedance Ratio	Z(-25°C)/Z(+20°C)	7	6	4	3	2						
			Z(-40°C)/Z(+20°C)	15	12	8	6	4						
Endurance		Test Time	1,000 Hrs											
		Capacitance Change	Within ±30% of initial value for 4 ~ 6.3V; Within ±25% of initial value for 10 ~ 50V											
		Tanδ	Less than 200% of specified value											
		Leakage Current	Within specified value											
* The above specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied with rated ripple current for 1,000 hours at 85°C.														
Shelf Life Test														
Test time: 500 hours; other items are the same as those for the Endurance.														
Ripple Current and Frequency Multipliers		Freq.(Hz)	60 (50)	120	500	1k	10k up							
		Cap.(μF)	Under 47	0.75	1.00	1.15	1.34	1.50						
			100 to 330	0.80	1.00	1.08	1.20	1.30						

Diagram of Dimensions

1. $\phi D = 3\text{mm}$ 2. $\phi D \geq 4\text{mm}$ 

Unit: mm

Lead Spacing and Diameter

ϕD	3	4	5	6.3	8
P	1.0	1.5	2.0	2.5	2.5
ϕd	0.4		0.45		
α			1.0		
β			0.5		

Dimension: $\phi D \times L(\text{mm})$

Dimension and Permissible Ripple Current

Ripple Current: mA/rms at 120 Hz, 85°C

V _{DC} μF Contents	4V (0G)		6.3V (0J)		10V (1A)		16V (1C)		25V (1E)		35V (1V)		50V (1H)		
	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	
0.33 R33														3×5	2.8
0.47 R47														3×5	4
1 010														4×5(3×5)	8.7(7)
2.2 2R2														4×5(3×5)	8.7(7)
3.3 3R3														4×5(3×5)	10(9)
4.7 4R7														4×5(3×5)	10(9)
10 100														4×5(3×5)	10(9)
22 220														4×5(3×5)	10(9)
33 330	4×5	27	4×5	34	5×5	41	5×5	49	6.3×5	52	6.3×5	52		8×5	66
47 470	4×5	34	5×5	37	6.3×5	50	6.3×5	58	6.3×5	58	8×5	72		8×5	80
100 101	5×5	55	6.3×5	62	6.3×5	70	8×5	99	8×5	99					
220 221	6.3×5	74	8×5	104	8×5	120									
330 331	8×5	105	8×5	120											

Part Numbering System

SS Series	330μF	±20%	6.3V	Bulk Package	Gas Type	8 $\phi \times 5L$	Pb-free and PET sleeve
SS-	331	M	0J	BK	-	0805	Lead Wire and Sleeve type

Series Name | Capacitance | Tolerance | Rated Voltage | Lead Configuration & Package | Rubber Type | Case Size |

Note: For more details, please refer to "Part Numbering System (Radial Type)" on page 13.