



SS Series

Features

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



Sleeve & Marking Color: Black & White

Specifications

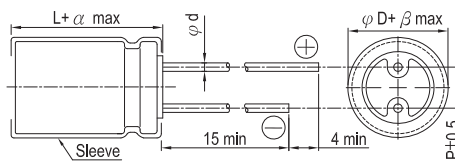
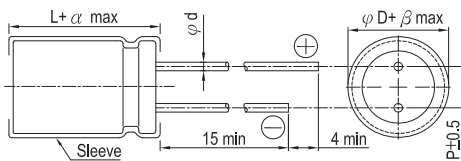
Items	Performance																																							
Category Temperature Range	-40℃ ~ +85℃																																							
Capacitance Tolerance	±20% (at 120Hz, 20℃)																																							
Leakage Current (at 20℃)	I = 0.01CV or 3 (μA) whichever is greater (after 2 minutes)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

1. $\phi D = 3mm$

2. $\phi D \geq 4mm$

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 & Permissible Ripple Current

Dimension: $\phi D \times L(mm)$

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

V. DC	4V (0G)	6.3V (0J)	10V (1A)	16V (1C)	25V (1E)	35V (1V)	50V (1H)
μF	Contents	$\phi D \times L$	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)	4×5(3×5) 10(9)
3.3	3R3				4×5(3×5) 11(10)	4×5 12	4×5 13
4.7	4R7			4×5(3×5) 14(11)	4×5 14	4×5 17	5×5 20
10	100			4×5(3×5) 17(13)	4×5 23	5×5 27	6.3×5 31
22	220		4×5(3×5) 22(18)	5×5 30	5×5 35	6.3×5 42	6.3×5 46
33	330	4×5 27	4×5 34	5×5 41	5×5 49	6.3×5 52	6.3×5 52
47	470	4×5 34	5×5 37	6.3×5 50	6.3×5 58	6.3×5 58	8×5 72
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 ϕ × 5L	Pb-free and PET sleeve
SS-	331	M	0J	BK	-	0805	
Series	Capacitance	Capacitance Tolerance	Rated Voltage	Lead Configuration & Package	Rubber Type	Case Size	Lead Wire and Sleeve type

Note: For more details, please refer to "Part Numbering System (Radial Type)" on page 11.

Mouser Electronics

Authorized Distributor

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Lelon:

<u>SS010M1HBK-0405P</u>	<u>SS010M1HBK-0305P</u>	<u>SS0R1M1HBK-0305P</u>	<u>SS0R33M1HBK-0305P</u>	<u>SS0R47M1HBK-0305P</u>
<u>SS2R2M1VBK-0305P</u>	<u>SS3R3M1EBK-0305P</u>	<u>SS4R7M1CBK-0305P</u>	<u>SS0R1M1HBK-0405P</u>	<u>SS100M1ABK-0405P</u>
<u>SS100M1CBK-0405P</u>	<u>SS100M1EBK-0505P</u>	<u>SS100M1HBK-0605P</u>	<u>SS100M1VBK-0505P</u>	<u>SS101M0JBK-0605P</u>
<u>SS101M1ABK-0605P</u>	<u>SS101M1CBK-0805P</u>	<u>SS101M1EBK-0805P</u>	<u>SS220M1CBK-0505P</u>	<u>SS220M1EBK-0605P</u>
<u>SS220M1HBK-0605P</u>	<u>SS220M1VBK-0605P</u>	<u>SS221M0JBK-0805P</u>	<u>SS221M1ABK-0805P</u>	<u>SS2R2M1HBK-0405P</u>
<u>SS2R2M1VBK-0405P</u>	<u>SS330M1CBK-0505P</u>	<u>SS3R3M1EBK-0405P</u>	<u>SS3R3M1VBK-0405P</u>	<u>SS470M0JBK-0505P</u>
<u>SS470M1CBK-0605P</u>	<u>SS470M1EBK-0605P</u>	<u>SS470M1VBK-0805P</u>	<u>SS4R7M1CBK-0405P</u>	<u>SS4R7M1EBK-0405P</u>
<u>SS4R7M1HBK-0505P</u>	<u>SS4R7M1VBK-0405P</u>	<u>SS4R7M1VBK0405</u>		