

## **SSV SERIES**

**85°C 4.6mm MAX Height, Lead Free Reflow Soldering.**

### ◆ FEATURES

- Case Dia  $\phi$ 4 ~  $\phi$ 6.3mm.
- Lead free reflow soldering is available.
- Available for high density mounting.
- RoHS compliance.



### ◆ SPECIFICATIONS

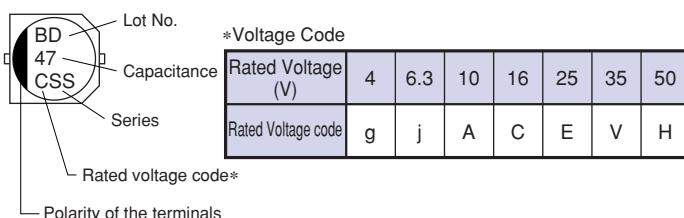
Items	Characteristics																															
Category Temperature Range	$-40\sim+85^\circ\text{C}$																															
Rated Voltage Range	4~50V.DC																															
Capacitance Tolerance	$\pm 20\%$ ( $20^\circ\text{C}$ , 120Hz)																															
Leakage Current(MAX)	I=0.01CV or $3\mu\text{A}$ whichever is greater. (After 2 minutes application of rated voltage) I=Leakage Current( $\mu\text{A}$ )      C=Rated Capacitance( $\mu\text{F}$ )      V=Rated Voltage(V)																															
Dissipation Factor(MAX) ( $\tan\delta$ )	<table border="1"> <tr> <td>Rated Voltage (V)</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><math>\tan\delta</math></td> <td>0.45</td> <td>0.30</td> <td>0.24</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.14</td> </tr> </table> (20°C, 120Hz)								Rated Voltage (V)	4	6.3	10	16	25	35	50	$\tan\delta$	0.45	0.30	0.24	0.19	0.16	0.14	0.14								
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$\tan\delta$	0.45	0.30	0.24	0.19	0.16	0.14	0.14																									
Endurance	After applying rated voltage with rated ripple current for 1000 hrs at 85°C, the capacitors shall meet the following requirements. <table border="1"> <tr> <td>Capacitance Change</td> <td>Within <math>\pm 25\%</math> of the initial value.</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 250% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> </tr> </table>								Capacitance Change	Within $\pm 25\%$ of the initial value.	Dissipation Factor	Not more than 250% of the specified value.	Leakage Current	Not more than the specified value.																		
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Low Temperature Stability Impedance Ratio(MAX)	<table border="1"> <tr> <td>Rated Voltage(V)</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><math>Z(-25^\circ\text{C})/Z(20^\circ\text{C})</math></td> <td>7</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td><math>Z(-40^\circ\text{C})/Z(20^\circ\text{C})</math></td> <td>15</td> <td>8</td> <td>8</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> </tr> </table> (120Hz)								Rated Voltage(V)	4	6.3	10	16	25	35	50	$Z(-25^\circ\text{C})/Z(20^\circ\text{C})$	7	4	3	2	2	2	2	$Z(-40^\circ\text{C})/Z(20^\circ\text{C})$	15	8	8	4	4	3	3
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### ◆ MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Frequency(Hz)	60(50)	120	500	1k	10k $\leq$
Coefficient	0.1 ~ $1\mu\text{F}$	0.50	1.00	1.20	1.30
	2.2 ~ $4.7\mu\text{F}$	0.65	1.00	1.20	1.30
	10 ~ $47\mu\text{F}$	0.80	1.00	1.20	1.30
	100 ~ $220\mu\text{F}$	0.80	1.00	1.10	1.15

### ◆ MARKING



### ◆ PART NUMBER

□□□      SSV  
 Rated Voltage      Series      □□□□□  
 □□□□□      Rated Capacitance      □□□□□  
 Capacitance Tolerance      Option      D×L  
 Case Size

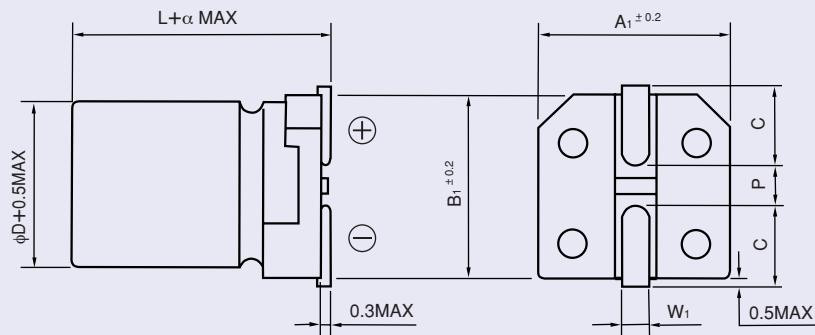


## CHIP ALUMINUM ELECTROLYTIC CAPACITORS

ssv

## ◆ DIMENSIONS

(mm)



$\phi D$	L	$A_1$	$B_1$	C	$W_1$	P
4	4.5	4.3	4.3	1.8	0.5 ~ 0.8	1.0
5	4.5	5.3	5.3	2.2	0.5 ~ 0.8	1.3
6.3	4.5	6.6	6.6	2.7	0.5 ~ 0.8	1.8

◆ STANDARD SIZE, RATED RIPPLE CURRENT

Size  $\phi$  D×L(mm), Ripple Current (mA r.m.s./85°C, 120kHz)