



**SJV SERIES**

105°C Long Life, Lead Free Reflow Soldering.

◆ **FEATURES**

- Load Life : 105°C 3000 hours.
- Lead free reflow soldering is available.
- Available for high density mounting.
- RoHS compliance.



◆ **SPECIFICATIONS**

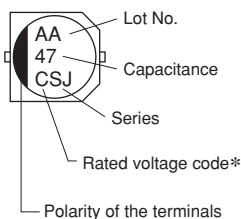
Items	Characteristics																								
Category Temperature Range	-40 ~ +105°C																								
Rated Voltage Range	6.3~50V.DC																								
Capacitance Tolerance	± 20%(20°C, 120Hz)																								
Leakage Current(MAX)	I=0.01CV or 3μA whichever is greater. (After 2 minutes application of rated voltage) I=Leakage Current(μA)    C=Rated Capacitance(μF)    V=Rated Voltage(V)																								
Dissipation Factor(MAX) (tanδ)	<table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>tanδ</td> <td>0.30</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.14</td> </tr> </tbody> </table>	Rated Voltage (V)	6.3	10	16	25	35	50	tanδ	0.30	0.24	0.20	0.16	0.14	0.14										
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tanδ	0.30	0.24	0.20	0.16	0.14	0.14																			
Endurance	After applying rated voltage with rated ripple current for 3000 hrs at 105°C, the capacitors shall meet the following requirements. <table border="1"> <tbody> <tr> <td>Capacitance Change</td> <td>Within ±30% of the initial value.</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 300% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> </tr> </tbody> </table>	Capacitance Change	Within ±30% of the initial value.	Dissipation Factor	Not more than 300% 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"> <thead> <tr> <th>Rated Voltage (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>(120Hz)</th> </tr> </thead> <tbody> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td></td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>14</td> <td>12</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> <td></td> </tr> </tbody> </table>	Rated Voltage (V)	6.3	10	16	25	35	50	(120Hz)	Z(-25°C)/Z(20°C)	4	3	2	2	2	2		Z(-40°C)/Z(20°C)	14	12	8	6	4	3	
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Z(-25°C)/Z(20°C)	4	3	2	2	2	2																			
Z(-40°C)/Z(20°C)	14	12	8	6	4	3																			

◆ **MULTIPLIER FOR RIPPLE CURRENT**

Frequency coefficient

Frequency (Hz)		60(50)	120	500	1k	10k≤
Coefficient	0.1~1μF	0.50	1.00	1.20	1.30	1.50
	2.2~4.7μF	0.65	1.00	1.20	1.30	1.50
	10~47μF	0.80	1.00	1.20	1.30	1.50
	100~220μF	0.80	1.00	1.10	1.15	1.20

◆ **MARKING**



\*Voltage Code

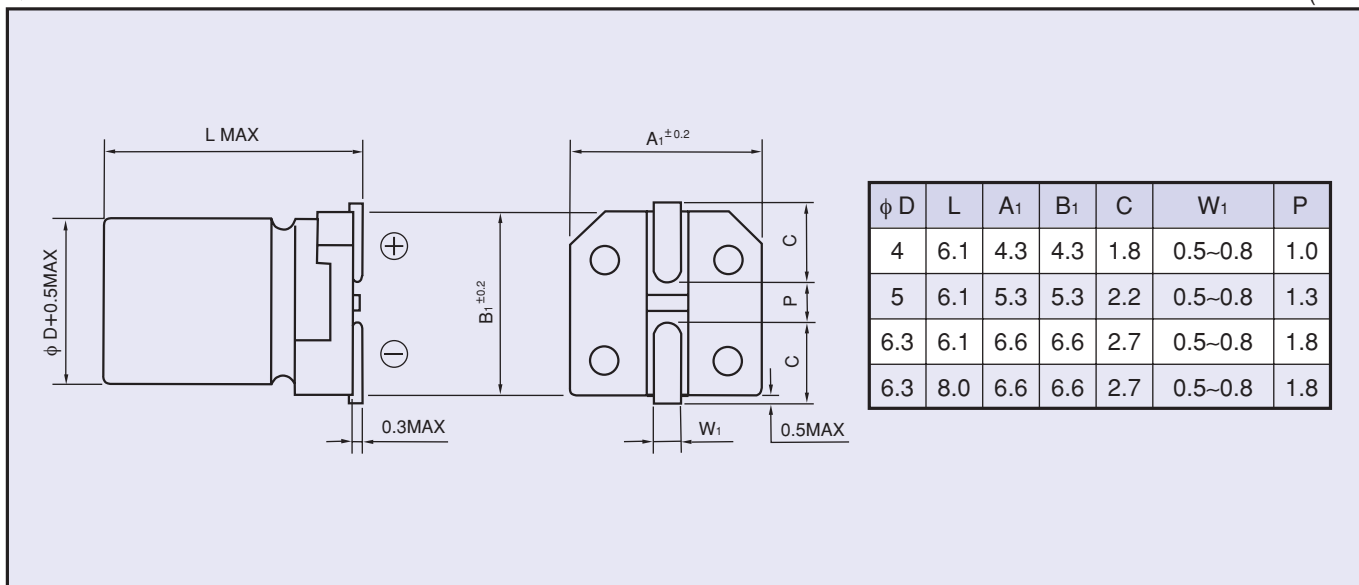
Rated Voltage (V)	6.3	10	16	25	35	50
Rated Voltage code*	j	A	C	E	V	H

◆ **PART NUMBER**

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

◆ DIMENSIONS

(mm)



◆ STANDARD SIZE

Size  $\phi D \times L$ (mm), Ripple Current (mA r.m.s./105°C, 120Hz)

Cap(μF)	6.3 (0J)		10 (1A)		16 (1C)		25 (1E)		35 (1V)		50 (1H)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.1											4x6.1	1.0
0.22											4x6.1	2.6
0.33											4x6.1	3.2
0.47											4x6.1	4
1											4x6.1	8
2.2											4x6.1	11
3.3											4x6.1	14
4.7									4x6.1	16	5x6.1	19
10					4x6.1	18			5x6.1	27	6.3x6.1	32
22	4x6.1	22			5x6.1	30			6.3x6.1	44	6.3x8	58
33			5x6.1	35			6.3x6.1	50	6.3x8	57		
47	5x6.1	38			6.3x6.1	50	6.3x8	63				
100	6.3x6.1	69			6.3x8	81						
220	6.3x8	120										