

SKV SERIES

105°C Standard, Lead Free Reflow Soldering.

◆ FEATURES

- Load Life : 105°C 1000 hours.
- Lead free reflow soldering is available.
- Available for high density mounting.
- RoHS compliance.



◆ SPECIFICATIONS

Items	Characteristics																															
Category Temperature Range	-55 ~ +105°C																															
Rated Voltage Range	6.3 ~ 50V.DC																															
Capacitance Tolerance	$\pm 20\%$ (20°C, 120Hz)																															
Leakage Current(MAX)	$I=0.01CV$ or $3 \mu A$ 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) (tan δ)	<table border="1"> <thead> <tr> <th></th> <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>$\phi 4 \sim \phi 6.3$</td> <td>0.30</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> </tr> <tr> <td></td> <td>$\phi 8, \phi 10$</td> <td>0.35</td> <td>0.26</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> </tr> </tbody> </table> (20°C, 120Hz)									Rated Voltage (V)	6.3	10	16	25	35	50	tan δ	$\phi 4 \sim \phi 6.3$	0.30	0.24	0.20	0.16	0.14	0.12		$\phi 8, \phi 10$	0.35	0.26	0.20	0.16	0.14	0.12
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Endurance	After applying rated voltage with rated ripple current for 1000 hrs at 105°C, the capacitors shall meet the following requirements. <table border="1"> <tr> <td>Capacitance Change</td> <td>Within $\pm 30\%$ of the initial value. ($\phi 8, 10: \pm 25\%$)</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 300% of the specified value. ($\phi 8, 10: 200\%$)</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> </tr> </table>								Capacitance Change	Within $\pm 30\%$ of the initial value. ($\phi 8, 10: \pm 25\%$)	Dissipation Factor	Not more than 300% of the specified value. ($\phi 8, 10: 200\%$)	Leakage Current	Not more than the specified value.																		
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Low Temperature Stability Impedance Ratio(MAX)	<table border="1"> <thead> <tr> <th></th> <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>$Z(-25^\circ C) / Z(20^\circ C)$</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td></td> </tr> <tr> <td>$Z(-40^\circ C) / Z(20^\circ C)$</td> <td>8</td> <td>8</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td></td> </tr> </tbody> </table> (120Hz)									Rated Voltage (V)	6.3	10	16	25	35	50	$Z(-25^\circ C) / Z(20^\circ C)$	4	3	2	2	2	2		$Z(-40^\circ C) / Z(20^\circ C)$	8	8	4	4	3	3	
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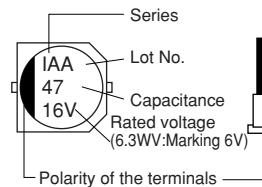
◆ MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

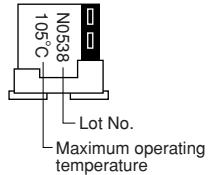
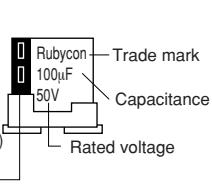
Frequency (Hz)	60(50)	120	500	1k	10k \leq
Coefficient	0.1 ~ 1 μF	0.50	1.00	1.20	1.30
	2.2 ~ 4.7 μF	0.65	1.00	1.20	1.30
	10 ~ 47 μF	0.80	1.00	1.20	1.30
	100 ~ 1000 μF	0.80	1.00	1.10	1.15

◆ MARKING

$\langle \phi 4 \sim \phi 6.3, \phi 8 \times 6.5 \rangle$



$\langle \phi 8 \times 10.5, \phi 10 \rangle$

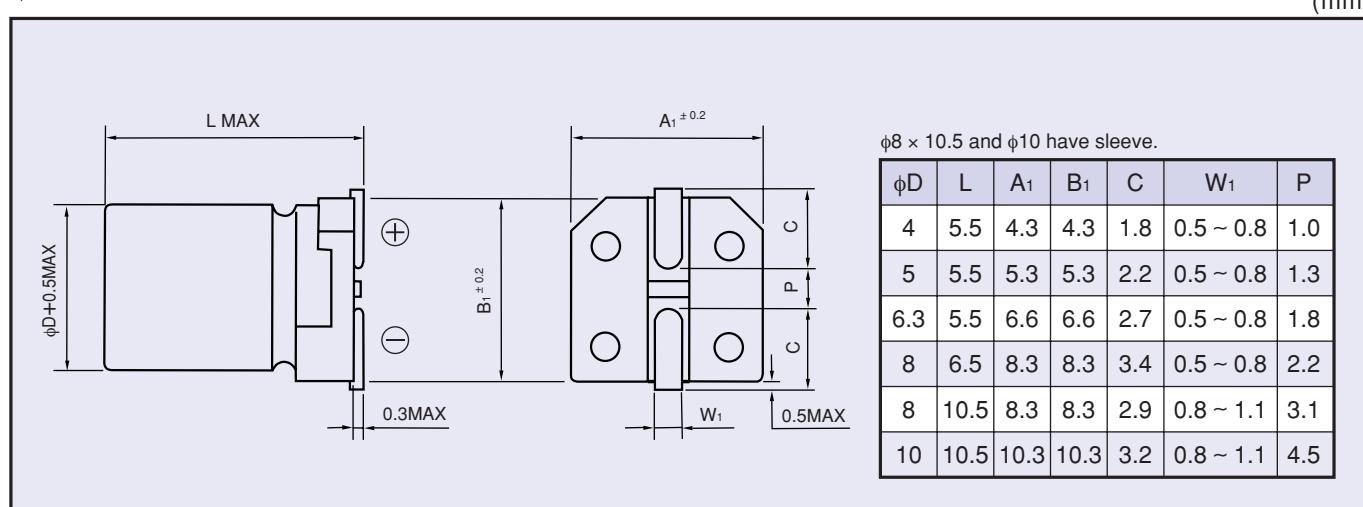


◆ PART NUMBER

□□□ SKV □□□□□ □ □□□ D x L
 Rated Voltage Series Rated Capacitance Capacitance Tolerance Option Case Size

◆ DIMENSIONS

(mm)



◆ STANDARD SIZE, RATED RIPPLE CURRENT

Size ϕ D×L(mm), Ripple Current (mA r.m.s./105°C, 120kHz)