

SKV SERIES

105°C, 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	±20% (20°C, 120Hz)																													
Leakage Current(MAX)	I=0.01CV or 3 μA whichever is greater. (After 2 minutes application of rated voltage) I=Leakage Current(μ A) C=Rated Capacitance(μ F) V=Rated Voltage(V)																													
Dissipation Factor(MAX) (tan δ)	<table border="1"> <tr> <td>Rated Voltage (V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>tan δ</td> <td>ϕ 4～ϕ 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>ϕ 8, ϕ 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> </table> (20°C, 120Hz)							Rated Voltage (V)	6.3	10	16	25	35	50	tan δ	ϕ 4～ϕ 6.3	0.30	0.24	0.20	0.16	0.14	0.12		ϕ 8, ϕ 10	0.35	0.26	0.20	0.16	0.14	0.12
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Endurance	<p>After applying rated voltage with rated ripple current for 1000 hrs at 105°C, the capacitors shall meet the following requirements.</p> <table border="1"> <tr> <td>Capacitance Change</td> <td>Within ±30% of the initial value. (ϕ 8,10:±25%)</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 300% of the specified value. (ϕ 8,10:200%)</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> </tr> </table>							Capacitance Change	Within ±30% of the initial value. (ϕ 8,10:±25%)	Dissipation Factor	Not more than 300% of the specified value. (ϕ 8,10:200%)	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>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <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> </tr> <tr> <td>Z(−40°C)/Z(20°C)</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)	6.3	10	16	25	35	50	Z(−25°C)/Z(20°C)	4	3	2	2	2	2	Z(−40°C)/Z(20°C)	8	8	4	4	3	3		
Rated Voltage (V)	6.3	10	16	25	35	50																								
Z(−25°C)/Z(20°C)	4	3	2	2	2	2																								
Z(−40°C)/Z(20°C)	8	8	4	4	3	3																								

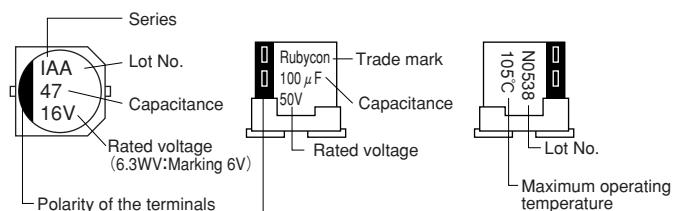
◆**MULTIPLIER FOR RIPPLE CURRENT**

Frequency coefficient

Frequency (Hz)	60(50)	120	500	1k	10k≤
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**

⟨ϕ 4～ϕ 6.3, ϕ 8×6.5⟩ ⟨ϕ 8×10.5, ϕ 10⟩



◆**PART NUMBER**

□□□ SKV □□□□□ □ □□□ D XL
 Rated Voltage Series Rated Capacitance Capacitance Tolerance Option Case Size

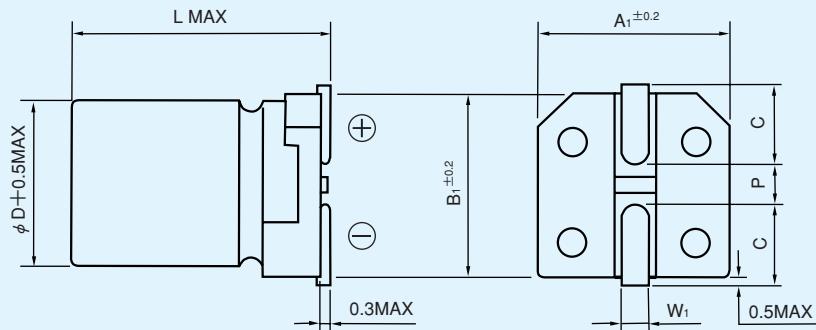


MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

SKV

DIMENSIONS

(mm)



ϕ 8×10.5 and ϕ 10 have sleeve.

ϕ	D	L	A ₁	B ₁	C	W ₁	P
4	5.5	4.3	4.3	1.8	0.5~0.8	1.0	
5	5.5	5.3	5.3	2.2	0.5~0.8	1.3	
6.3	5.5	6.6	6.6	2.7	0.5~0.8	1.8	
8	6.5	8.3	8.3	3.4	0.5~0.8	2.2	
8	10.5	8.3	8.3	2.9	0.8~1.1	3.1	
10	10.5	10.3	10.3	3.2	0.8~1.1	4.5	

◆ STANDARD SIZE, RATED RIPPLE CURRENT

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