

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

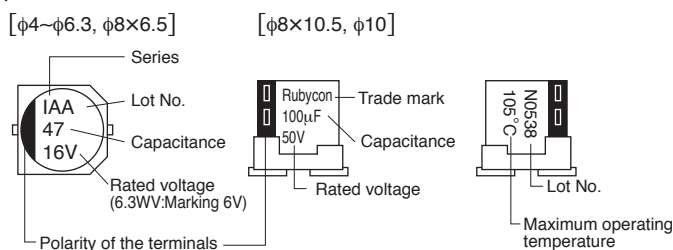
Items	Characteristics																																							
Category Temperature Range	-55~+105°C																																							
Rated Voltage Range	6.3~50V.DC																																							
Capacitance Tolerance	±20%(20°C,120Hz)																																							
Leakage Current(MAX)	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><tr><td colspan="2">Rated Voltage (V)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td colspan="2" rowspan="3">(20°C,120Hz)</td></tr><tr><td rowspan="2">tanδ</td><td>φ4~φ6.3</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>φ8, φ10</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>										Rated Voltage (V)		6.3	10	16	25	35	50	(20°C,120Hz)		tanδ	φ4~φ6.3	0.30	0.24	0.20	0.16	0.14	0.12	φ8, φ10	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><tr><td>Capacitance Change</td><td colspan="9">Within ±30% of the initial value. (φ8,10±25%)</td></tr><tr><td>Dissipation Factor</td><td colspan="9">Not more than 300% of the specified value. (φ8,10:200%)</td></tr><tr><td>Leakage Current</td><td colspan="9">Not more than the specified value.</td></tr></table>										Capacitance Change	Within ±30% of the initial value. (φ8,10±25%)									Dissipation Factor	Not more than 300% of the specified value. (φ8,10:200%)									Leakage Current	Not more than the specified value.								
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Low Temperature Stability Impedance Ratio(MAX)	<table><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><td colspan="3" rowspan="3">(120Hz)</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>										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)	8	8	4	4	3	3						
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◆ 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
100~1000μF	0.80	1.00	1.10	1.15	1.20

◆ MARKING

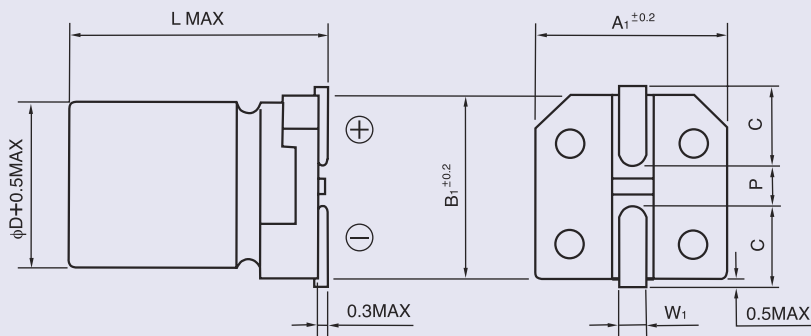


◆ PART NUMBER

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

◆ DIMENSIONS

(mm)



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