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SKV SERIES

105℃, Lead Free Reflow Soldering.

◆FEATURES

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

◆SPECIFICATIONS

Items	Characteristics
Category Temperature Range	−55～+105℃
Rated Voltage Range	6.3～50V.DC
Capacitance Tolerance	±20%（20℃，120Hz）
Leakage Current(MAX)	I=0.01CV or 3 μA 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)	（20℃，120Hz）
Endurance	After applying rated voltage with rated ripple current for 1000 hrs at 105℃, the capacitors shall meet the following requirements.
Low Temperature Stability Impedance Ratio(MAX)	（120Hz）

Dissipation Factor(MAX) (tan δ):

Rated Voltage (V)		6.3	10	16	25	35	50
tan δ	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

Endurance:

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.

Low Temperature Stability Impedance Ratio(MAX):

Rated Voltage (V)	6.3	10	16	25	35	50
Z(−25℃)/Z(20℃)	4	3	2	2	2	2
Z(−40℃)/Z(20℃)	8	8	4	4	3	3

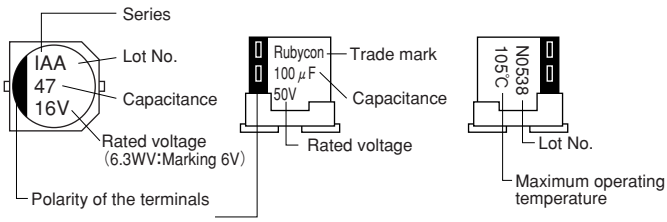
◆MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Frequency (Hz)		60(50)	120	500	1k	10k≦
Coefficient	0.1～1 μF	0.50	1.00	1.20	1.30	1.50
	2.2～4.7 μF	0.65	1.00	1.20	1.30	1.50
	10～47 μF	0.80	1.00	1.20	1.30	1.50
	100～1000 μF	0.80	1.00	1.10	1.15	1.20

◆MARKING

〈φ4～φ6.3, φ8×6.5〉 〈φ8×10.5, φ10〉

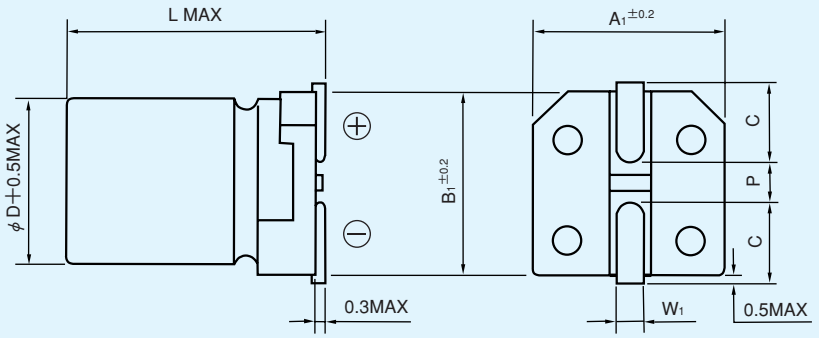


◆PART NUMBER

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

◆DIMENSIONS

(mm)



φ8×10.5 and φ10 have sleeve.

φD	L	A1	B1	C	W1	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 φD×L(mm), Ripple Current (mA r.m.s./105℃, 120Hz)

WV(V.DC) / 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											4×5.5	1.0
0.22											4×5.5	2.0
0.33											4×5.5	3.0
0.47											4×5.5	4.0
1											4×5.5	8.0
2.2											4×5.5	11
3.3											4×5.5	13
4.7									4×5.5	14	5×5.5	18
10					4×5.5	20			5×5.5	24	6.3×5.5	28
22	4×5.5	23			5×5.5	31			6.3×5.5	46	8×6.5	70
33			5×5.5	34			6.3×5.5	48			8×10.5	135
47	5×5.5	37			6.3×5.5	56					8×10.5 10×10.5	155 180
100	6.3×5.5	57			6.3×5.5	65	8×6.5 8×10.5	118 180	8×10.5 10×10.5	180 305	8×10.5 10×10.5	200 315
220	6.3×5.5	74			8×10.5	185	8×10.5 10×10.5	190 353	10×10.5	360		
330			8×10.5	195	8×10.5 10×10.5	195 440	10×10.5	450				
470	8×10.5	210	8×10.5 10×10.5	210 440	10×10.5	460						
1000	10×10.5	480										