



NSKV SERIES

105°C Bi-polar, Lead Free Reflow Soldering.

◆FEATURES

- Lead Free reflow soldering is available.
- Available for high density mounting.
- RoHS compliance.



◆SPECIFICATIONS

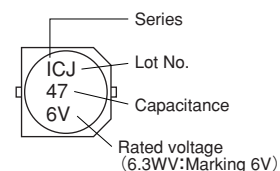
Items	Characteristics																											
Category Temperature Range	-55~+105℃																											
Rated Voltage Range	6.3~50V.DC																											
Capacitance Tolerance	±20% (20℃, 120Hz)																											
Leakage Current(MAX)	I=0.05CV or 10 μ A whichever is greater. (After 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><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>0.35</td><td>0.26</td><td>0.24</td><td>0.22</td><td>0.20</td><td>0.18</td></tr></table> (20℃, 120Hz)							Rated Voltage (V)	6.3	10	16	25	35	50	tan δ	0.35	0.26	0.24	0.22	0.20	0.18							
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Endurance	After applying rated voltage with rated ripple current for 1000hrs at 105℃, (The polarity shall be reversed every 250hrs.), the capacitors shall meet the following requirements. <table><tr><td>Capacitance Change</td><td colspan="6">Within ±25% of the initial value.</td></tr><tr><td>Dissipation Factor</td><td colspan="6">Not more than 200% of the specified value.</td></tr><tr><td>Leakage Current</td><td colspan="6">Not more than the specified value.</td></tr></table>							Capacitance Change	Within ±25% of the initial value.						Dissipation Factor	Not more than 200% of the specified value.						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></tr><tr><td>Z(-25℃)/Z(20℃)</td><td>4</td><td>3</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Z(-40℃)/Z(20℃)</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℃)/Z(20℃)	4	3	2	2	2	2	Z(-40℃)/Z(20℃)	8	8	4	4	3	3
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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

◆MARKING

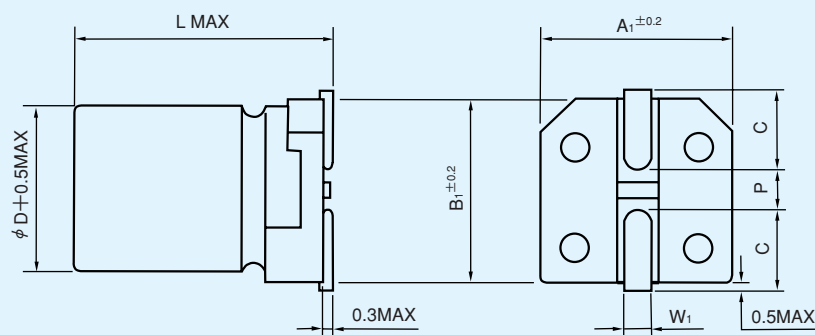


◆PART NUMBER

□□□ NSKV □□□□□ □ □□□ 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

◆ **STANDARD SIZE, RATED RIPPLE CURRENT**Size $\phi D \times L$ (mm), Ripple Current (mA r.m.s./105°C, 120Hz)

Cap (μF) \ WV (V.DC)	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	2.8
0.47											4×5.5	4.0
1											4×5.5	8.4
2.2									4×5.5	8.4	5×5.5	13
3.3							4×5.5	10			5×5.5	17
4.7					4×5.5	12			5×5.5	18	6.3×5.5	20
10			4×5.5	17	5×5.5	23			6.3×5.5	29		
22	5×5.5	28			6.3×5.5	37						
33			6.3×5.5	35								
47	6.3×5.5	45										