

**NSEV SERIES****85°C Bi-polar, Lead Free Reflow Soldering.****◆ FEATURES**

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

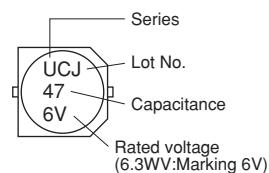
**◆ SPECIFICATIONS**

Items	Characteristics																											
Category Temperature Range	-40 ~ +85°C																											
Rated Voltage Range	6.3~50V.DC																											
Capacitance Tolerance	$\pm 20\%$ (20°C,120Hz)																											
Leakage Current(MAX)	I=0.05CV or 10μA 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 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>tanδ</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°C,120Hz)							Rated Voltage (V)	6.3	10	16	25	35	50	tanδ	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 2000hrs at 85°C, (The polarity shall be reversed every 500hrs.), the capacitors shall meet the following requirements. <table border="1"> <tr> <td>Capacitance Change</td> <td>Within <math>\pm 25\%</math> of the initial value.</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> </tr> </table>							Capacitance Change	Within $\pm 25\%$ 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 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																						
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**◆ MULTIPLIER FOR RIPPLE CURRENT**

Frequency coefficient

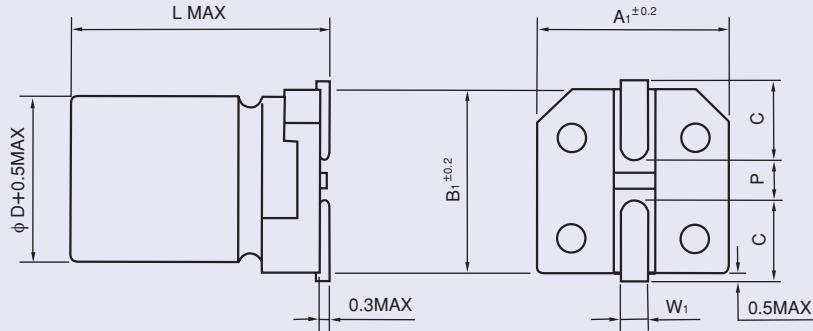
Frequency (Hz)	60(50)	120	500	1k	10k≤
Coefficient	0.1~1μF	0.50	1.00	1.20	1.30
	2.2~4.7μF	0.65	1.00	1.20	1.30
	10~47μF	0.80	1.00	1.20	1.30

**◆ MARKING****◆ PART NUMBER**

\_\_\_\_\_ NSEV  
 Rated Voltage      Series      \_\_\_\_\_      Rated Capacitance      \_\_\_\_\_      Capacitance Tolerance      \_\_\_\_\_      Option      D×L  
 \_\_\_\_\_      \_\_\_\_\_      \_\_\_\_\_      \_\_\_\_\_      \_\_\_\_\_      \_\_\_\_\_      Case Size

## ◆ DIMENSIONS

(mm)



$\phi$	D	L	A <sub>1</sub>	B <sub>1</sub>	C	W <sub>1</sub>	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**

Size φ D×L(mm), Ripple Current (mA r.m.s./85°C, 120Hz)