

**NSEV SERIES**

85°C Bi-polar, Lead Free Reflow Soldering.

◆ **FEATURES**

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



◆ **SPECIFICATIONS**

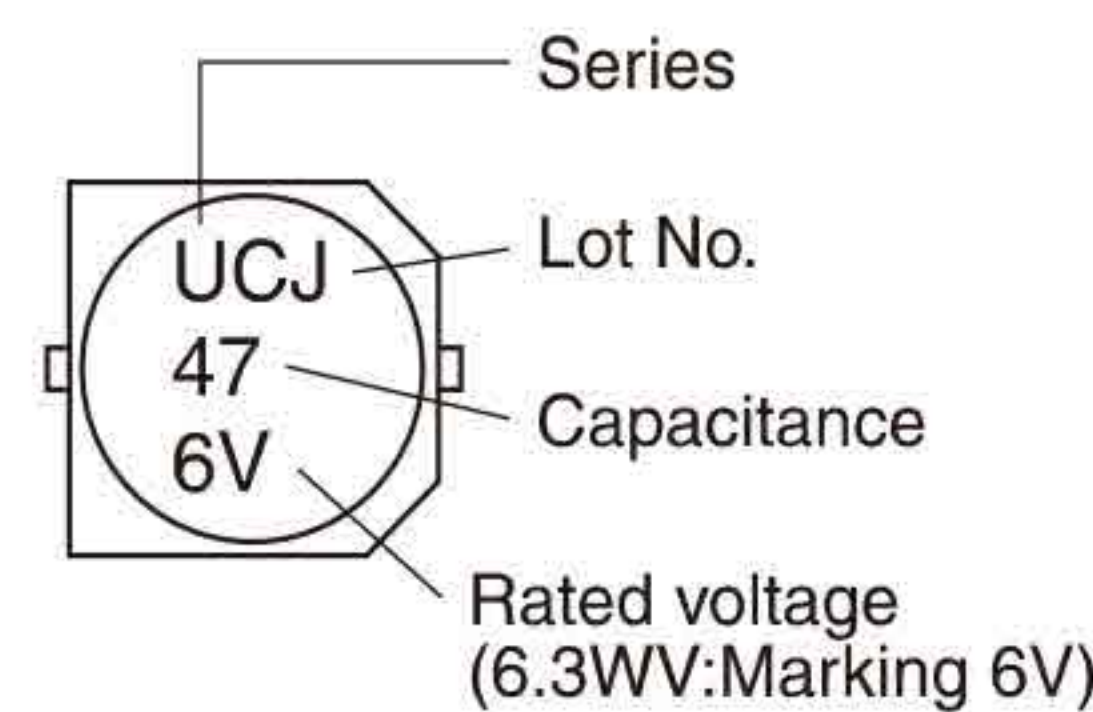
Items	Characteristics																								
Category Temperature Range	-40~+85°C																								
Rated Voltage Range	6.3~50V.DC																								
Capacitance Tolerance	±20%(20°C,120Hz)																								
Leakage Current(MAX)	I=0.05CV or 10µA whichever is greater. (After 2 minutes application of rated voltage) I=Leakage Current(µA)    C=Rated Capacitance(µF)    V=Rated Voltage(V)																								
Dissipation Factor(MAX)	<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> <td>(20°C,120Hz)</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> <td></td> </tr> </table>	Rated Voltage (V)	6.3	10	16	25	35	50	(20°C,120Hz)	tanδ	0.35	0.26	0.24	0.22	0.20	0.18									
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tanδ	0.35	0.26	0.24	0.22	0.20	0.18																			
Endurance	<p>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.</p> <table border="1"> <tr> <td>Capacitance Change</td> <td>Within ±25% 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 ±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> <td>(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> <td></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> <td></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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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**

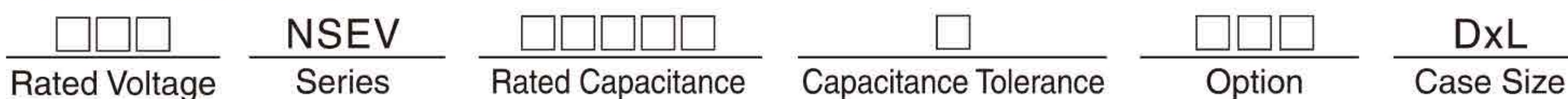
Frequency coefficient

Frequency (Hz)		60(50)	120	500	1k	10k≤
Coefficient	0.1~1µF	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

◆ **MARKING**

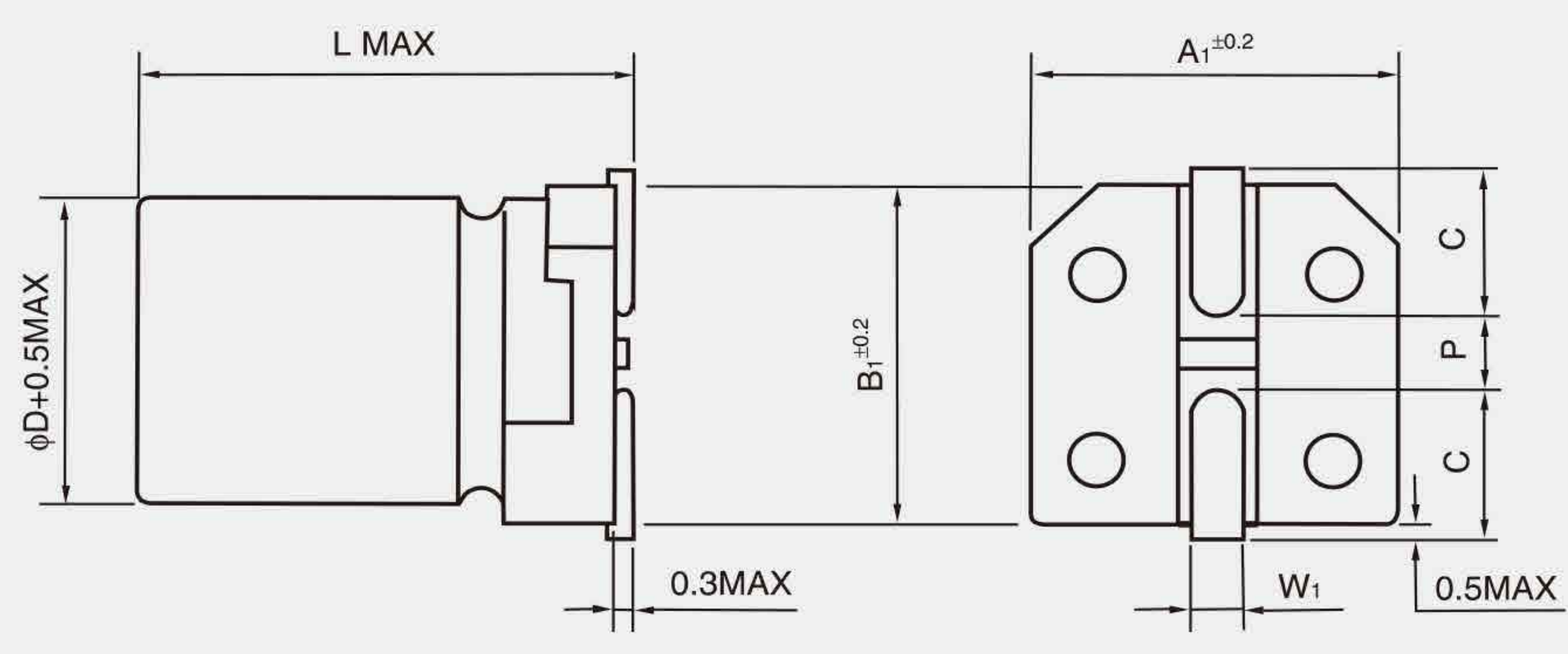


◆ **PART NUMBER**



◆ DIMENSIONS

(mm)



$\phi D$	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

◆ STANDARD SIZE, RATED RIPPLE CURRENT

Size  $\phi D \times L$  (mm), Ripple Current (mA r.m.s./85°C, 120Hz)

WV(V.DC) Cap( $\mu F$ )	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											4X5.5	1.0
0.22											4X5.5	2.0
0.33											4X5.5	2.8
0.47											4X5.5	4.0
1											4X5.5	8.4
2.2									4X5.5	8.4	5X5.5	13
3.3							4X5.5	10			5X5.5	17
4.7					4X5.5	12			5X5.5	18	6.3X5.5	20
10			4X5.5	17	5X5.5	23			6.3X5.5	29		
22	5X5.5	28			6.3X5.5	37						
33					6.3X5.5	49						
47	6.3X5.5	45										