

NSEV SERIES

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

◆ **FEATURES**

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

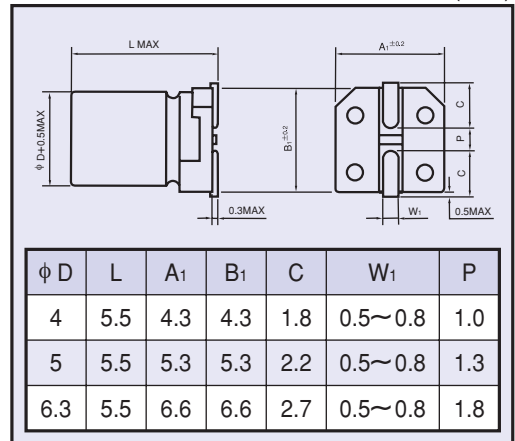


◆ **SPECIFICATIONS**

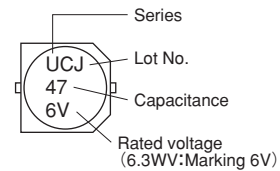
Items	Characteristics																						
Category Temperature Range	-40~+85°C																						
Rated Voltage Range	6.3~50V.DC																						
Capacitance Tolerance	±20% (20°C, 120Hz)																						
Leakage Current(MAX)	I=0.05CV or 10 μA whichever is greater. (After 2 minutes application of rated voltage) I=Leakage Current(μA) C=Rated Capacitance(μF) V=Rated Voltage(V)																						
(tanδ) 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> </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>	Rated Voltage(V)	6.3	10	16	25	35	50	tan δ	0.35	0.26	0.24	0.22	0.20	0.18	(20°C, 120Hz)							
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tan δ	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> </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	Z(-25°C)/Z(20°C)	4	3	2	2	2	2	Z(-40°C)/Z(20°C)	8	8	4	4	3	3	(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																	

◆ **DIMENSIONS**

(mm)



◆ **MARKING**



◆ **MULTIPLIER FOR RIPPLE CURRENT**

Frequency coefficient

Frequency (Hz)	60 (50)	120	500	1k	10k ≤
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

◆ **STANDARD SIZE**

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

WV (V.DC)	Cap (μF)	Size (φ D×L)	Rated Ripple Current
6.3 (0J)	22	5×5.5	28
	47	6.3×5.5	45
10(1A)	10	4×5.5	17
16 (1C)	4.7	4×5.5	12
	10	5×5.5	23
	22	6.3×5.5	37
	33	6.3×5.5	49
25(1E)	3.3	4×5.5	10

WV (V.DC)	Cap (μF)	Size (φ D×L)	Rated Ripple Current
35 (1V)	2.2	4×5.5	8.4
	4.7	5×5.5	18
	10	6.3×5.5	29

WV (V.DC)	Cap (μF)	Size (φ D×L)	Rated Ripple Current
50 (1H)	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	5×5.5	13
	3.3	5×5.5	17
	4.7	6.3×5.5	20

◆ **PART NUMBER**

