

**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"> <thead> <tr> <th>Rated Voltage (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>(20°C,120Hz)</th> </tr> </thead> <tbody> <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> <td></td> </tr> </tbody> </table>	Rated Voltage (V)	6.3	10	16	25	35	50	(20°C,120Hz)	tan δ	0.35	0.26	0.24	0.22	0.20	0.18									
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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"> <tbody> <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> </tbody> </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"> <thead> <tr> <th>Rated Voltage (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>(120Hz)</th> </tr> </thead> <tbody> <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> </tbody> </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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**◆ MULTIPLIER FOR RIPPLE CURRENT**

(1)Frequency coefficient

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

(2)Temperature coefficient

Ambient Temperature (°C)	85	70	50≤
Coefficient	1.0	1.6	2.0

**◆ PART NUMBER**

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

