

NEV SERIES
85°C Bi-polar, 5.5mm MAX Height.
◆ FEATURES

- Reflow soldering is available.
- Available for high density mounting.


◆ SPECIFICATIONS

Items	Characteristics																			
Operating 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=Nominal 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>35</td> <td>50</td> <td rowspan="2">(20°C, 120Hz)</td> </tr> <tr> <td>tanδ</td> <td>0.24</td> <td>0.20</td> <td>0.17</td> <td>0.15</td> <td>0.15</td> </tr> </table>	Rated Voltage (V)	6.3	10	16	35	50	(20°C, 120Hz)	tanδ	0.24	0.20	0.17	0.15	0.15						
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Load Life	<p>After applying rated voltage with max ripple current for 1000hrs at 85°C, (The polarity shall be reversed every 250hrs.), 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>35</td> <td>50</td> <td rowspan="3">(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> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> </tr> </table>	Rated Voltage (V)	6.3	10	16	35	50	(120Hz)	Z(-25°C)/Z(20°C)	4	3	2	2	2	Z(-40°C)/Z(20°C)	8	6	4	3	3
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◆ MULTIPLIER FOR RIPPLE CURRENT

(1) Frequency coefficient

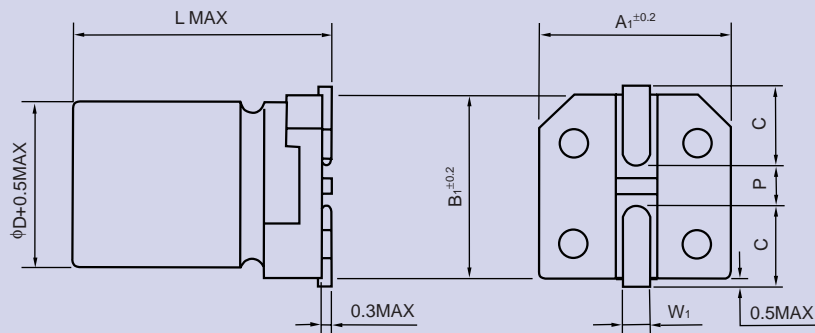
Frequency (Hz)	60(50)	120	500	1K	10k≤
Coefficient	0.8	1.0	1.20	1.30	1.50

(2) Temperature coefficient

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

◆ 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	2.1	0.5~0.8	1.4
6.3	5.5	6.6	6.6	2.5	0.5~0.8	2.0

◆ STANDARD SIZE, MAX. PERMISSIBLE RIPPLE CURRENT

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

WV(V.DC) Cap(μF)	6.3 (0J)		10 (1A)		16 (1C)		35 (1V)		50 (1H)	
	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									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								