

V-CHIP ALUMINUM ELECTROLYTIC CAPACITORS 片式铝电解电容器

NP Non-Polarized Series

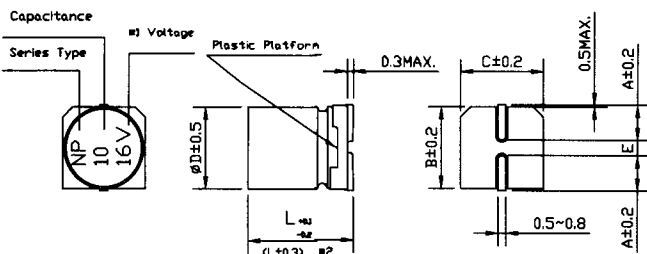


- Designed for surface mounting on high density circuit board.
- Emboss carrier tape packing system is available for automatic insertion.

◆ Specifications

Items	Performance Characteristics																					
Operating Temperature Range	-40~85°C																					
Voltage Range	6.3~50V																					
Capacitance Range	0.1~100μF																					
Capacitance Tolerance	±20% at 120Hz, 20°C																					
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.05CV or 10μA, whichever is greater.																					
Tan δ	Measurement frequency: 120Hz, Temperature: 20°C <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 (max)</td> <td>0.24</td> <td>0.20</td> <td>0.17</td> <td>0.17</td> <td>0.15</td> <td>0.15</td> </tr> </table>	Rated voltage(V)	6.3	10	16	25	35	50	Tan δ (max)	0.24	0.20	0.17	0.17	0.15	0.15							
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Stability at Low Temperature	Measurement frequency: 120Hz <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>Impedance ratio 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>ZT/Z20(max)</td> <td>8</td> <td>6</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	Impedance ratio Z-25°C/Z+20°C	4	3	2	2	2	2	ZT/Z20(max)	8	6	4	4	3	3
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Load Life	After 1000 hours' application of rated voltage at 85°C with the polarity inverted every 250 hours, capacitors meet the characteristics requirements listed at right. <table border="1"> <tr> <td>Capacitance Change</td> <td>Within ± 20% of initial value</td> </tr> <tr> <td>Tan δ</td> <td>200% or less of initial specified value</td> </tr> <tr> <td>Leakage Current</td> <td>Initial specified value or less</td> </tr> </table>	Capacitance Change	Within ± 20% of initial value	Tan δ	200% or less of initial specified value	Leakage Current	Initial specified value or less															
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Self Life	After leaving capacitors under no load at 85°C for 1000 hours, they meet the specified value for load life characteristics listed above.																					
Resistance to Soldering Heat	The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the characteristics requirements listed at right. <table border="1"> <tr> <td>Capacitance Change</td> <td>Within ± 10% of initial value</td> </tr> <tr> <td>Tan δ</td> <td>Initial specified value or less</td> </tr> <tr> <td>Leakage Current</td> <td>Initial specified value or less</td> </tr> </table>	Capacitance Change	Within ± 10% of initial value	Tan δ	Initial specified value or less	Leakage Current	Initial specified value or less															
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Applicable Standards	JIS C-5141 and JIS C-5102																					

◆ Chip Type



	(mm)			
ΦD×L	4×5.4	5×5.4	6.3×5.4	6.3×7.7
A	1.8	2.1	2.4	2.4
B	4.3	5.3	6.6	6.6
C	4.3	5.3	6.6	6.6
E	1.0	1.3	2.2	2.2
L	5.4	5.4	5.4	7.7

*1 Voltage mark for 6.3V is [6V]

*2 Applicable to 6.3×7.7

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NP Series

• Dimensions

Cap. (μ F)	WV	6.3		10		16		25		35		50	
		0J		1A		1C		1E		1V		1H	
0.1	0R1											4×5.4	1.0
0.22	R22											4×5.4	2.0
0.33	R33											4×5.4	2.8
0.47	R47											4×5.4	4.0
1	010											4×5.4	8.4
2.2	2R2									4×5.4	8.4	5×5.4	13
3.3	3R3							5×5.4	12	5×5.4	16	5×5.4	17
4.7	4R7					4×5.4	12	5×5.4	16	5×5.4	18	6.3×5.4	20
10	100			4×5.4	17	5×5.4	23	6.3×5.4	27	6.3×5.4	29	6.3×7.7	36
22	220	5×5.4	28	6.3×5.4	33	6.3×5.4	37	6.3×7.7	50	6.3×7.7	54		
33	330	6.3×5.4	37	6.3×5.4	41	6.3×5.4	49	6.3×7.7	61				
47	470	6.3×5.4	45	6.3×7.7	61	6.3×7.7	75						
100	101	6.3×7.7	82									Case size	Allowable ripple

Allowable ripple (mA rms) at 85°C 120Hz

• Frequency coefficient of allowable ripple current

Frequency	50Hz	120Hz	300Hz	1kHz	10kHz~
Coefficient	0.70	1.00	1.17	1.36	1.50