

## Chip Type 105°C Standard Capacitors

- 4φ ~ 10φ, 2,000 hours at 105°C.
- Vertical chip type miniaturized for 5.4mm high capacitor.
- Available for high density surface mounting.



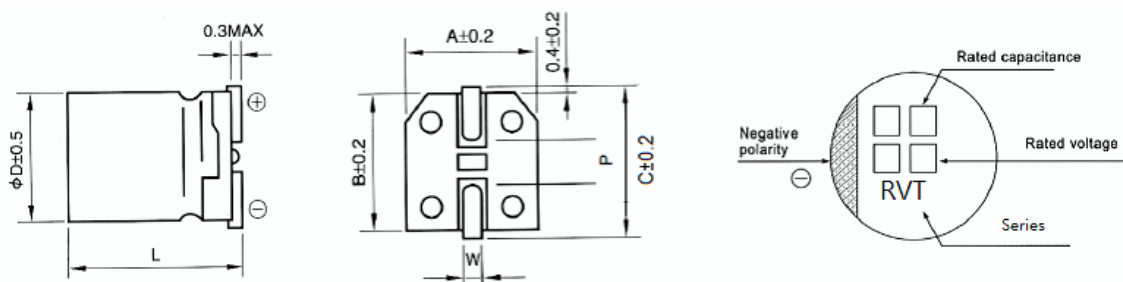
Marking color : Black

### ■ SPECIFICATIONS

Item	Performance																												
Category Temperature Range	-55°C~+105°C																												
Capacitance Tolerance	±20% (20°C, 120Hz)																												
Leakage Current (μA)	I = 0.01CV or 3 (μA) whichever is greater (after 2 minutes) Where, C = Rated capacitance in μF ; V = Rated DC working voltage in V																												
Dissipation Factor (Tanδ at 120Hz, 20°C)	<table border="1"> <tr> <td>Rated Voltage</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> </tr> <tr> <td>Tanδ (max)</td> <td>0.30</td> <td>0.24</td> <td>0.20</td> <td>0.18</td> <td>0.16</td> <td>0.14</td> <td>0.14</td> <td>0.14</td> </tr> </table>	Rated Voltage	6.3	10	16	25	35	50	63	100	Tanδ (max)	0.30	0.24	0.20	0.18	0.16	0.14	0.14	0.14										
	Rated Voltage	6.3	10	16	25	35	50	63	100																				
Tanδ (max)	0.30	0.24	0.20	0.18	0.16	0.14	0.14	0.14																					
When the capacitance exceeds 1,000μF, 0.02 shall be added every 1,000μF increase.																													
Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below.																												
	<table border="1"> <tr> <td colspan="2">Rated voltage (V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> </tr> <tr> <td rowspan="2">Impedance Ratio</td> <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>2</td> <td>3</td> </tr> <tr> <td>Z (-55°C) / Z (+20°C)</td> <td>10</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>4</td> </tr> </table>	Rated voltage (V)		6.3	10	16	25	35	50	63	100	Impedance Ratio	Z (-25°C) / Z (+20°C)	4	3	2	2	2	2	2	3	Z (-55°C) / Z (+20°C)	10	8	6	4	3	3	3
Rated voltage (V)		6.3	10	16	25	35	50	63	100																				
Impedance Ratio	Z (-25°C) / Z (+20°C)	4	3	2	2	2	2	2	3																				
	Z (-55°C) / Z (+20°C)	10	8	6	4	3	3	3	4																				
Endurance (105°C) (Applied ripple current)	Test time	2,000 hours																											
	Capacitance Change	Within ±30% of initial value																											
	Dissipation Factor	Less than 300% of specified value																											
	Leakage Current	Within specified value																											
	* The above Specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied for 2,000 ~ 5,000 hours at 105°C.																												
Shelf life (105°C)	Test time	1,000 Hrs																											
	Capacitance Change	Within ±30% of initial value																											
	Dissipation Factor	Less than 300% of specified value																											
	Leakage Current	Within specified value																											
	* The above Specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°C without voltage applied.																												
Frequency Multipliers	Frequency (Hz)	50, 60	120	1k	10k up																								
	1 - 10uF	0.60	1.00	1.36	1.5																								
	22 - 1500uF	0.75	1.00	1.20	1.35																								

### ■ OUTLINE DRAWING

Unit : mm



φD	L	A	B	C	W	P
4	5.4±0.5	4.3	4.3	5.0	0.5 to 0.8	1.0
5	5.4±0.5	5.3	5.3	6.0	0.5 to 0.8	1.5
6.3	5.4±0.5	6.6	6.6	7.2	0.5 to 0.8	2.1
6.3	7.7±0.5	6.6	6.6	7.2	0.5 to 0.8	2.1
8	10.2±0.5	8.3	8.3	9.1	0.7 to 1.1	3.1
10	10.2±0.5	10.3	10.3	11.1	0.7 to 1.1	4.5

#### NOTE

Design, Specifications are subject to change without notice.  
Ask factory for technical specifications before purchase and/or use.

# CHIP TYPE Aluminum Electrolytic Capacitors



## ■ STANDARD RATINGS

W.V.	6.3V		10V		16V		25V		35V		50V		63V		100V	
Item uF	DxLmm	mA	DxLmm	mA	DxLmm	mA	DxLmm	mA	DxLmm	mA	DxLmm	mA	DxLmm	mA	DxLmm	mA
1	-	-	-	-	-	-	-	-	-	-	4x5.4	8.0	-	-	-	-
2.2	-	-	-	-	-	-	-	-	-	-	4x5.4	12	-	-	6.3x5.4	15
3.3	-	-	-	-	-	-	-	-	4x5.4	14	4x5.4	14	5x5.4	14	6.3x5.4	22
4.7	-	-	-	-	-	-	-	-	-	-	4x5.4	14	5x5.4	17	6.3x5.4	23
											5x5.4	17	6.3x5.4	22	6.3x7.7	38
10	-	-	-	-	4x5.4	17	4x5.4	15	4x5.4	15	5x5.4	17	6.3x5.4	26	6.3x7.7	38
							5x5.4	21	5x5.4	22	6.3x5.4	25	6.3x7.7	41		
22	4x5.4	22	4x5.4	21	4x5.4	21	5x5.4	26	5x5.4	28	6.3x5.4	43	6.3x7.7	53	8x10.2	90
			5x5.4	26	5x5.4	28	6.3x5.4	37	6.3x5.4	40	6.3x7.7	52	8x10.2	100	10x10.2	129
33	4x5.4	23	4x5.4	23	-	-	-	-	6.3x5.4	45	6.3x7.7	63	8x10.2	116	10x10.2	136
	5x5.4	28	5x5.4	34					8x6.5	86						
47	4x5.4	26	5x5.4	31	5x5.4	33	6.3x5.4	49	6.3x5.4	54	6.3x7.7	66	-	-	10x10.2	148
	5x5.4	34	6.3x5.4	42			8x6.5	93	6.3x7.7	75						
68	-	-	-	-	-	-	6.3x5.4	55	6.3x7.7	80	-	-	-	-	-	-
100	5x5.4	40	5x5.4	40	6.3x5.4	63	6.3x7.7	93	6.3x7.7	87	8x10.2	146	10x10.2	200	-	-
	6.3x5.4	52	6.3x5.4	55	6.3x7.7	93			8x10.2	125	10x10.2	178				
150	6.3x5.4	56	6.3x5.4	65	6.3x7.7	100	6.3x7.7	100	8x10.2	158	10x10.2	178	-	-	-	-
220	6.3x5.4	69	6.3x5.4	69	6.3x7.7	110	8x10.2	183	8x10.2	195	10x10.2	230	-	-	-	-
	6.3x7.7	108	6.3x7.7	110	8x6.5	110	10x10.2	230	10x10.2	230						
330	6.3x7.7	108	6.3x7.7	108	8x10.2	201	8x10.2	228	10x10.2	247	10x10.2	230	-	-	-	-
							10x10.2	248								
470	6.3x7.7	125	8x10.2	214	8x10.2	240	10x10.2	286	10x10.2	286	-	-	-	-	-	-
	8x10.2	214	10x10.2	266	10x10.2	300										
680	8x10.2	214	10x10.2	277	10x10.2	322	-	-	-	-	-	-	-	-	-	-
1000	8x10.2	230	-	-	10x10.2	347	-	-	-	-	-	-	-	-	-	-
	10x10.2	315														
1500	10x10.2	320	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Rated ripple current : mA,105°C,120Hz

### NOTE

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