

Features

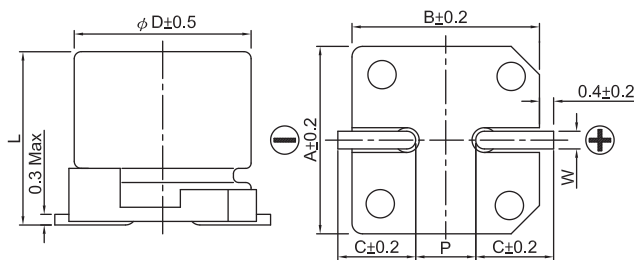
- 105°C, 2,000 hours assured
- Ultra low ESR with large permissible ripple current
- RoHS Compliance



SPECIFICATIONS

Items	Performance										
Operating Temperature Range	-55°C ~ +105°C										
Capacitance Tolerance	±20% (at 120Hz, 20°C)										
Leakage Current (at 20°C)	Rated voltage applied, after 2 minutes at 20°C. See the Dimension & Permissible Ripple Current										
Dissipation Factor (Tan δ at 120Hz, 20°C)	See the Dimension & Permissible Ripple Current										
ESR (at 100K ~ 300K Hz, 20°C)	See the Dimension & Permissible Ripple Current										
Load Life Test	<table border="1"> <tr> <td>Test Time</td> <td>2,000 Hrs</td> </tr> <tr> <td>Capacitance Change</td> <td>Within ±20% of initial value</td> </tr> <tr> <td>Dissipation Factor</td> <td>Less than 150% of specified value</td> </tr> <tr> <td>ESR</td> <td>Less than 150% of specified value</td> </tr> <tr> <td>Leakage Current</td> <td>Within specified value</td> </tr> </table>	Test Time	2,000 Hrs	Capacitance Change	Within ±20% of initial value	Dissipation Factor	Less than 150% of specified value	ESR	Less than 150% of specified value	Leakage Current	Within specified value
	Test Time	2,000 Hrs									
	Capacitance Change	Within ±20% of initial value									
	Dissipation Factor	Less than 150% of specified value									
	ESR	Less than 150% 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 hours at 105°C.											
Moisture Resistance	<table border="1"> <tr> <td>Test Time</td> <td>1,000 Hrs</td> </tr> <tr> <td>Capacitance Change</td> <td>Within ±20% of initial value</td> </tr> <tr> <td>Dissipation Factor</td> <td>Less than 150% of specified value</td> </tr> <tr> <td>ESR</td> <td>Less than 150% of specified value</td> </tr> <tr> <td>Leakage Current</td> <td>Within specified value</td> </tr> </table>	Test Time	1,000 Hrs	Capacitance Change	Within ±20% of initial value	Dissipation Factor	Less than 150% of specified value	ESR	Less than 150% of specified value	Leakage Current	Within specified value
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	Dissipation Factor	Less than 150% of specified value									
	ESR	Less than 150% of specified value									
Leakage Current	Within specified value										
* The above specifications shall be satisfied when the capacitors are restored to 20°C after subjecting them at 60°C, 90 to 95% RH for 1,000 hours. Leakage current should be tested after voltage treatment.											
Ripple Current & Frequency Multipliers	<table border="1"> <tr> <th>Frequency (Hz)</th> <th>120 ≤ f < 1K</th> <th>1K ≤ f < 10K</th> <th>10K ≤ f < 100K</th> <th>100K ≤ f < 500K</th> </tr> <tr> <th>Multiplier</th> <td>0.05</td> <td>0.3</td> <td>0.7</td> <td>1.0</td> </tr> </table>	Frequency (Hz)	120 ≤ f < 1K	1K ≤ f < 10K	10K ≤ f < 100K	100K ≤ f < 500K	Multiplier	0.05	0.3	0.7	1.0
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Multiplier	0.05	0.3	0.7	1.0							

DIAGRAM OF DIMENSIONS



LEAD SPACING AND DIAMETER

Unit: mm

φ D	L	A	B	C	W	P ± 0.2
6.3	5.9 +0.1/-0.3	6.6	6.6	2.7	0.5 ~ 0.8	2.0
8	7.0 ± 0.2	8.4	8.4	3.0	0.5 ~ 0.8	3.1
8	12.0 ± 0.5	8.4	8.4	3.0	0.7 ~ 1.1	3.1
10	8.0 ± 0.2	10.4	10.4	3.3	0.7 ~ 1.1	4.7
10	12.7 ± 0.5	10.4	10.4	3.3	0.7 ~ 1.1	4.7

Dimension: ϕ D×L(mm)

Ripple Current: mA/rms at 100KHz, 105°C

DIMENSIONS & PERMISSIBLE RIPPLE CURRENT

W. V. (V)	Capacitance (μF)	Size ϕ D×L(mm)	Tan δ (120Hz, 20°C)	LC (μA)	ESR (mΩ/at 100K ~ 300K Hz, 20°C Max)	Rated R. C. (mA/rms at 100KHz, 105°C)
2.5V (0E)	390	6.3×5.9	0.12	300	14	3,160
	680	8×7	0.12	500	20	3,370
	820	8×12	0.15	500	9	5,380
	1,200	10×8	0.12	600	13	4,450
	1,500	8×12	0.15	750	12	5,150
	1,500	10×12.7	0.15	750	7	7,200
	2,700	10×12.7	0.15	1,350	11	5,600
4V (0G)	270	6.3×5.9	0.12	300	15	3,160
	330	6.3×5.9	0.12	300	15	3,160
	560	8×7	0.12	500	22	3,220
	560	8×12	0.15	500	9	5,380
	1,200	8×12	0.15	960	12	4,700
	1,500	8×12	0.15	1,200	12	4,700
	1,000	10×8	0.12	800	14	4,300
	1,200	10×12.7	0.15	960	7	7,200
2,200	10×12.7	0.15	1,760	11	7,200	
6.3V (0J)	220	6.3×5.9	0.12	300	15	3,160
	390	8×7	0.12	491	22	3,220
	820	8×12	0.15	1,033	13	4,700
	820	10×8	0.12	1,033	14	4,300
	820	10×12.7	0.15	1,033	7	5,600
	1,500	10×12.7	0.15	1,890	12	5,560
10V (1A)	120	6.3×5.9	0.12	300	22	2,600
	270	8×7	0.12	500	22	3,220
	470	10×8	0.12	940	19	3,800
16V (1C)	39	6.3×5.9	0.12	300	24	2,460
	68	6.3×5.9	0.12	300	25	2,440
	150	8×7	0.12	500	22	3,220
	180	8×12	0.15	864	16	4,070
	220	10×8	0.12	704	22	3,450
	330	10×12.7	0.15	1,056	12	5,300