

Features

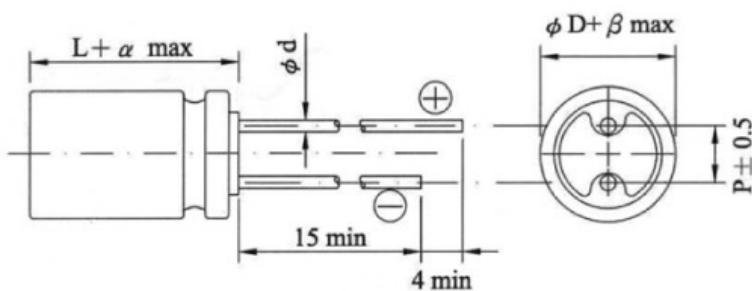
- 105°C, 2,000 hours assured
- Ultra low ESR with large permissible ripple current
- RoHS Compliance



SPECIFICATIONS

Items	Performance										
Operating Temperature Range	-55°C ~ +105°C										
Capacitance Tolerance	±20% (at 120Hz, 20°C)										
Leakage Current (at 20°C)	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
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	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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DIAGRAM OF DIMENSIONS

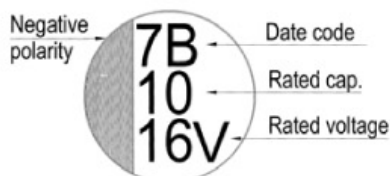


LEAD SPACING AND DIAMETER Unit: mm

φ D	6.3	8	10
L	5.5	6.5	11
P	2.5	3.5	5.0
φ d	0.45	0.6	
α	1.0	1.5	
β	0.5		

MARKING

φ D = 6.3



φ D = 8 ~ 10



Dimension: ϕ DxL(mm)

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

DIMENSIONS & PERMISSIBLE RIPPLE CURRENT

W. V. (V)	Capacitance (μ F)	Size ϕ DxL(mm)	Tan δ (120Hz, 20°C)	LC (μ A)	ESR (m Ω /at 100K ~ 300K Hz, 20°C Max)	Rated R. C. (mA/rms at 100KHz, 105°C)
2.5V (0E)	220	6.3x5.5	0.12	110	28	2,390
	680	8x11.5	0.18	340	10	5,230
	1,500	10x12.5	0.18	750	8	5,500
4V (0G)	150	6.3x5.5	0.12	120	35	1,810
	270	6.3x11	0.12	216	15	3,200
	560	8x11.5	0.18	448	10	5,230
	1,200	10x12.5	0.18	960	8	5,500
6.3V (0J)	100	6.3x5.5	0.12	126	40	1,810
	220	6.3x11	0.12	277	18	3,160
	390	8x11.5	0.15	491	12	3,160
	470	8x11.5	0.15	592	12	4,770
	820	10x12.5	0.15	1,033	10	5,500
10V (1A)	330	8x11.5	0.12	660	14	4,420
	560	10x12.5	0.12	1,360	12	5,300
16V (1C)	47	6.3x5.5	0.10	150	50	1,650
	100	6.3x11	0.10	320	22	2,820
	180	8x11.5	0.12	576	16	4,360
	330	10x12.5	0.12	1,056	14	5,050
20V (1D)	22	6.3x5.5	0.10	88	60	1,450
	56	6.3x11	0.10	224	25	2,650
	100	8x11.5	0.15	400	24	3,320
	150	10x12.5	0.15	600	20	4,320
25V(1E)	6.8	6.3x5.5	0.10	170	80	1,200
	33	8x11.5	0.12	413	24	3,320
	56	10x12.5	0.12	700	20	4,320
35V(1V)	22	8x11.5	0.12	154	50	2,300
	47	10x12.5	0.12	329	30	3,650