



Features

- 85°C, 1,000 hours assured, 5mm height with low leakage current
- Use in very compact high temperature industrial equipment
- RoHS Compliance

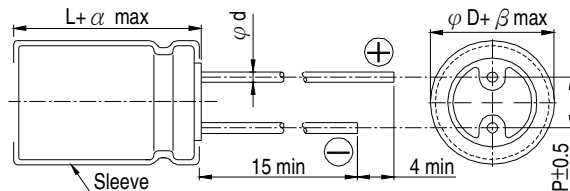


Sleeve & Marking Color: Orange & Black

SPECIFICATIONS

Items	Performance																										
Category Temperature Range	-40℃ ~ +85℃																										
Capacitance Tolerance	±20% (at 120Hz, 20℃)																										
Leakage Current (at 20℃)	I = 0.002CV or 0.4 (μA) whichever is greater (after 2 minutes) Where, C= rated capacitance in μF V = rated DC working voltage in V																										
Dissipation Factor (Tan δ at 120Hz, 20℃)	<table><tr><td>Rated Voltage</td><td>4</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>0.35</td><td>0.27</td><td>0.23</td><td>0.19</td><td>0.15</td><td>0.13</td><td>0.11</td></tr></table>	Rated Voltage	4	6.3	10	16	25	35	50	Tan δ (max)	0.35	0.27	0.23	0.19	0.15	0.13	0.11										
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Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below. <table><tr><td colspan="2">Rated Voltage</td><td>4</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><tr><td rowspan="2">Impedance Ratio</td><td>Z(-25℃)/Z(+20℃)</td><td>6</td><td>3</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Z(-40℃)/Z(+20℃)</td><td>12</td><td>9</td><td>7</td><td>5</td><td>3</td><td>3</td><td>3</td></tr></table>	Rated Voltage		4	6.3	10	16	25	35	50	Impedance Ratio	Z(-25℃)/Z(+20℃)	6	3	2	2	2	2	2	Z(-40℃)/Z(+20℃)	12	9	7	5	3	3	3
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Endurance	<table><tr><td>Test Time</td><td>1,000 Hrs</td></tr><tr><td>Capacitance Change</td><td>Within ±30% of initial value for 4 ~ 6.3V; Within ±25% of initial value for 10 ~ 50V</td></tr><tr><td>Dissipation Factor</td><td>Less than 200% of specified value</td></tr><tr><td>Leakage Current</td><td>Within specified value</td></tr></table> * The above specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage applied with rated ripple current for 1,000 hours at 85℃.	Test Time	1,000 Hrs	Capacitance Change	Within ±30% of initial value for 4 ~ 6.3V; Within ±25% of initial value for 10 ~ 50V	Dissipation Factor	Less than 200% of specified value	Leakage Current	Within specified value																		
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Shelf Life Test	Test time: 500 hours; other items are the same as those for the Endurance.																										

DIAGRAM OF DIMENSIONS



LEAD SPACING AND DIAMETER Unit: mm

φ D	4	5	6.3
P	1.5	2.0	2.5
φ d	0.45		
α	1.0		
β	0.5		

DIMENSION & PERMISSIBLE RIPPLE CURRENT

Dimension: φ D × L(mm)

Ripple Current: mA/rms at 120 Hz, 85°C

V. DC		4V (0G)		6.3V (0J)		10V (1A)		16V (1C)		25V (1E)		35V (1V)		50V (1H)	
μF	Contents	φ D×L	mA	φ D×L	mA	φ D×L	mA	φ D×L	mA	φ D×L	mA	φ D×L	mA	φ D×L	mA
0.1	0R1													4×5	1
0.22	R22													4×5	2
0.33	R33													4×5	3
0.47	R47													4×5	3.8
1	010													4×5	6.9
2.2	2R2													4×5	10
3.3	3R3													4×5	13
4.7	4R7									4×5	14	4×5	16	5×5	19
10	100							4×5	19	5×5	23	5×5	24	6.3×5	32
22	220			4×5	22	5×5	24	5×5	28	6.3×5	38	6.3×5	42		
33	330	5×5	27	5×5	28	5×5	30	6.3×5	41	6.3×5	46				
47	470	5×5	32	5×5	34	6.3×5	43	6.3×5	50						
100	101	6.3×5	54	6.3×5	60										