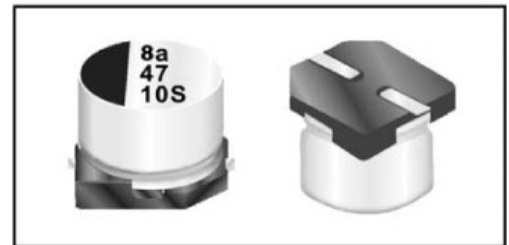


Features

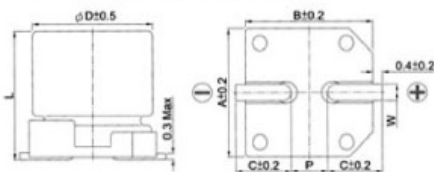
- 4 ~ 6.3 ϕ , 85°C, 2,000 hours assured
- Vertical chip type miniaturized for 4.5mm high capacitor
- Designed for surface mounting on high density PC board.
- RoHS Compliance



SPECIFICATIONS

Items	Performance																										
Operating Temperature Range	-40°C ~ +85°C																										
Capacitance Tolerance	±20% (at 120Hz, 20°C)																										
Leakage Current (at 20°C)	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 (Tan δ at 120Hz, 20°C)	<table border="1"> <thead> <tr> <th>Rated Voltage</th> <th>4</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>Tan δ (max)</td> <td>0.50</td> <td>0.30</td> <td>0.24</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.14</td> </tr> </tbody> </table>	Rated Voltage	4	6.3	10	16	25	35	50	Tan δ (max)	0.50	0.30	0.24	0.19	0.16	0.14	0.14										
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Low Temperature Characteristics (at 120Hz)	<p>Impedance ratio shall not exceed the values given in the table below.</p> <table border="1"> <thead> <tr> <th colspan="2">Rated Voltage</th> <th>4</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Impedance Ratio</td> <td>Z(-25°C)/Z(+20°C)</td> <td>7</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z(-55°C)/Z(+20°C)</td> <td>15</td> <td>8</td> <td>5</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> </tr> </tbody> </table>	Rated Voltage		4	6.3	10	16	25	35	50	Impedance Ratio	Z(-25°C)/Z(+20°C)	7	4	3	2	2	2	2	Z(-55°C)/Z(+20°C)	15	8	5	4	3	3	3
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Load Life Test	<table border="1"> <thead> <tr> <th colspan="2">Test Time</th> <th colspan="2">2,000 hrs</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Capacitance Change</td> <td>4 ~ 6.3V</td> <td colspan="2">Within ±30% of initial value</td> </tr> <tr> <td>10 ~ 50V</td> <td colspan="2">Within ±25% of initial value</td> </tr> <tr> <td colspan="2">Dissipation Factor</td> <td colspan="2">Less than 300% of specified value</td> </tr> <tr> <td colspan="2">Leakage Current</td> <td colspan="2">Within specified value</td> </tr> </tbody> </table> <p>* The above specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied for 2,000 hrs at 85°C.</p>	Test Time		2,000 hrs		Capacitance Change	4 ~ 6.3V	Within ±30% of initial value		10 ~ 50V	Within ±25% of initial value		Dissipation Factor		Less than 300% of specified value		Leakage Current		Within specified value								
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Shelf Life Test	Test time: 1,000 hrs; other items are the same as those for the load life test.																										

DIAGRAM OF DIMENSIONS

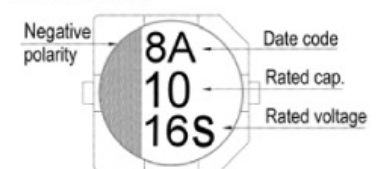


LEAD SPACING AND DIAMETER

Unit: mm

φD	L	A	B	C	W	P±0.2
4	4.5 ± 0.2	4.3	4.3	2.0	0.5 ~ 0.8	1.0
5	4.5 ± 0.2	5.3	5.3	2.3	0.5 ~ 0.8	1.5
6.3	4.5 ± 0.2	6.6	6.6	2.7	0.5 ~ 0.8	2.0

MARKING



DIMENSION & PERMISSIBLE RIPPLE CURRENT

Dimension: φD × L(mm)

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

μF	V DC Contents	4V (0G)		6.3V (0J)		10V (1A)		16V (1C)		25V (1E)		35V (1V)		50V (1H)	
		φD×L	mA	φD×L	mA	φD×L	mA	φD×L	mA	φD×L	mA	φD×L	mA	φD×L	mA
0.1	0R1													4×4.5	1.0
0.22	R22													4×4.5	2.0
0.33	R33													4×4.5	2.8
0.47	R47													4×4.5	4.0
1	010													4×4.5	8.4
2.2	2R2													4×4.5	13
3.3	3R3													4×4.5	17
4.7	4R7									4×4.5	16	4×4.5	18	5×4.5	20
10	100							4×4.5	23	5×4.5	27	5×4.5	29	6.3×4.5	33
22	220			4×4.5	23	5×4.5	33	5×4.5	37	6.3×4.5	42	6.3×4.5	46		
33	330	4×4.5	28	5×4.5	37	5×4.5	41	6.3×4.5	49	6.3×4.5	52				
47	470	4×4.5	33	5×4.5	45	6.3×4.5	70	6.3×4.5	58						
100	101	5×4.5	56	6.3×4.5	70										