ALUMINUM ELECTROLYTIC CAPACITORS

UZG
3.95mmL MAX. Chip Type, Wide Temperature Range

- Chip type with 3.95mmLMAX height. Operating over wide temperature range of -40 to +105°C.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape.
- AEC-Q200 compliant. Please contact us for details.

Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Performance Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Category Temperature Range</td>
<td>-40 to +105°C</td>
</tr>
<tr>
<td>Rated Voltage Range</td>
<td>6.3 to 50V</td>
</tr>
<tr>
<td>Rated Capacitance Range</td>
<td>1 to 100µF</td>
</tr>
<tr>
<td>Capacitance Tolerance</td>
<td>±20% at 120Hz, 20°C</td>
</tr>
</tbody>
</table>

Leakage Current

After 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.01 CV or 3 (µA) , whichever is greater.

Tangent of loss angle (tan δ)

<table>
<thead>
<tr>
<th>Voltage (V)</th>
<th>6.3</th>
<th>10</th>
<th>16</th>
<th>25</th>
<th>35</th>
<th>50</th>
<th>120Hz</th>
<th>20°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>tan δ (MAX.)</td>
<td>0.38</td>
<td>0.32</td>
<td>0.20</td>
<td>0.16</td>
<td>0.14</td>
<td>0.14</td>
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</tr>
</tbody>
</table>

Stability at Low Temperature

| Impedance ratio | Z–25°C / Z+20°C | 6 | 5 | 3 | 3 | 3 |
| Z–40°C / Z+20°C | 10 | 10 | 6 | 6 | 4 | 4 |

Endurance

The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 1000 hours at 105°C. After 2 minutes’ application of rated voltage at 20°C, they shall meet the specified values for the endurance characteristics listed above.

Shelf Life

After storing the capacitors under no load at 105°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed above.

Resistance to soldering heat

The capacitors are kept on a hot plate for 30 seconds, which is maintained at 250°C. The capacitors shall meet the characteristic requirements listed at right when they are removed from the plate and restored to 20°C.

Marking

Black print on the case top.

Chip Type

Type numbering system (Example : 16V 10µF)

<table>
<thead>
<tr>
<th>UZG</th>
<th>C</th>
<th>1</th>
<th>0</th>
<th>0</th>
<th>M</th>
<th>C</th>
<th>L</th>
<th>G</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>16V</td>
<td>10µF</td>
<td>Configuration</td>
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<td></td>
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<tr>
<td>Taping code</td>
<td>Capacitance tolerance ±20%</td>
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<tr>
<td>Rated capacitance (10µF)</td>
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<tr>
<td>Rated voltage (16V)</td>
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<td>Series name</td>
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</table>

Dimensions

<table>
<thead>
<tr>
<th>Voltage (V)</th>
<th>6.3</th>
<th>10</th>
<th>16</th>
<th>25</th>
<th>35</th>
<th>50</th>
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<tbody>
<tr>
<td>Code</td>
<td>0J</td>
<td>1A</td>
<td>1C</td>
<td>1E</td>
<td>1V</td>
<td>1H</td>
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<td>2.2</td>
<td>2R2</td>
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<tr>
<td>3.3</td>
<td>3R3</td>
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</tr>
<tr>
<td>4.7</td>
<td>4R7</td>
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<td>100</td>
<td>101</td>
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</tbody>
</table>

Frequency coefficient of rated ripple current

<table>
<thead>
<tr>
<th>Frequency</th>
<th>50 Hz</th>
<th>120 Hz</th>
<th>300 Hz</th>
<th>1 kHz</th>
<th>10 kHz or more</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coefficient</td>
<td>0.70</td>
<td>1.00</td>
<td>1.17</td>
<td>1.36</td>
<td>1.50</td>
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</tbody>
</table>

- Taping specifications are given in page 23.
- Recommended land size, soldering by reflow are given in page 18, 19.
- Please refer to page 3 for the minimum order quantity.