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Conductive Polymer Hybrid Aluminum Electrolytic Capacitors (Standard Type)- Radial Type

Features

- Low profile Low DC Leakage current High reliability.
- 105 5000

  Endurance: 5000 h at 105 .

Specifications

<table>
<tr><th>Items</th><th colspan="2">Characteristics</th></tr>
<tr><td>Operating Temperature Range</td><td colspan="2">-55~+105</td></tr>
<tr><td>Rated Voltage Range</td><td colspan="2">10~100V DC</td></tr>
<tr><td>Nominal Capacitance Range</td><td colspan="2">22~2200μF</td></tr>
<tr><td>Nominal Capacitance Tolerance</td><td colspan="2">±20% 20 120Hz</td></tr>
<tr><td>Leakage Current</td><td colspan="2">≤0.05CV(μA) or 80μA ,whichever is greater 20 2 at 20 after 2 minutes
C (μF) V (VDC)</td></tr>
<tr><td>tgδ
Dissipation Factor (Max)</td><td colspan="2">20 , 120Hz <table><tr><td>(Vdc)</td><td>10~25V</td><td>35~100V</td></tr><tr><td>Tgδ</td><td>0.14</td><td>0.10</td></tr></table></td></tr>
<tr><td>ESR</td><td colspan="2">Reference parameter table (mΩ at 100k~300kHz 20 max)</td></tr>
<tr><td>Characteristics of impedance
ratio at high temp. and low temp</td><td colspan="2">100KHZ
Based the value at 100KHZ.
Z -25 /Z +25 ≤1.5
Z -55 /Z +25 ≤2.0</td></tr>
<tr><td rowspan="5">Load Life</td><td colspan="2">105 5,000 20
The capacitor shall be subjected to application of the D.C. voltage with full rated ripple current at +105 for 5000 hours. After stabilizing at 20 , the capacitor shall not exceed the specified limits. (The sum of DC voltage and ripple peak voltage shall not exceed the rated voltage.)</td></tr>
<tr><td>Capacitance Change</td><td>±25%
Within ±25% of the initial value</td></tr>
<tr><td>Dissipation Factor</td><td>≤ 200%
Not to exceed 200% of the value specified</td></tr>
<tr><td>Equivalent Series Resistance</td><td>≤ 200%
Not to exceed 200% of the value specified</td></tr>
<tr><td>Leakage Current</td><td>≤
Not to exceed the value specified</td></tr>
<tr><td rowspan="5">Shelf Life Test</td><td colspan="2">105 ±2 1000H 20
After storage for 1000 hours at +105 ±2 with no voltage applied and then being stabilized at +20 the capacitor shall not exceed the specified values listed below.</td></tr>
<tr><td>Capacitance Change</td><td>±25%
Within ±25% of the initial value</td></tr>
<tr><td>Dissipation Factor</td><td>≤ 200%
Not to exceed 200% of the value specified</td></tr>
<tr><td>Equivalent Series Resistance</td><td>≤ 200%
Not to exceed 200% of the value specified</td></tr>
<tr><td>Leakage Current</td><td>≤
Not to exceed the value specified</td></tr>
</table>

[redacted]

Frequency correction factor for ripple current

Frequency KHz	0.1≤Freq.≤0.5	0.5 Freq.≤1	1 Freq.≤5	5 Freq.≤10	10 Freq.≤50	50 Freq. 100	100≤Freq.≤300
Coefficient	0.10	0.30	0.4	0.6	0.75	0.9	1