E.R.C. RADIAL TYPE CAPACITORS 105℃ 2000HR

ERC series high density radial type 105℃ 高精密電容(新型專利品)

- E. R. C. 系列是一種摒棄傳統，采用環氧樹脂塗裝的特別設計電容，俱防酸 、防漏夜等優點，密封性特佳。
- 高信賴度的低漏泄電流、低阻抗，于高溫系數下更趨穩定、壽命更長。
- 適用于高精密電設備，例如：電腦主機板及其周邊設備、防盜器、汽車音響、通訊器材，可有效取代鉭質電容，以降低生產成本。
- E.R.C. is a newly invented device with an epoxy resin coating. This specially designed coating provides additional protection in the areas such as well sealed, moisture-proof, leak-proof, acid and alkali resistance, ect.
- Highly reliable for low leakage current and low impedance. In case of high temperature, E.R.C. can provide longer usage life and good stability.
- Most suitable for high-density electronic equipment, such as: PC mother board & other device, security alarm, car stereos and communication device, etc.

Specifications

<table>
<tr><th>No</th><th>Item</th><th>Performance Characteristics</th></tr>
<tr><td>1</td><td>使用温度範圍
Operating Temperature Range</td><td>-40 to +105℃</td></tr>
<tr><td>2</td><td>定格電壓範圍
Rated Working Voltage Rang</td><td>6.3 -50v.DC</td></tr>
<tr><td>3</td><td>靜電容量範圍
Nominal Capacitance Range</td><td>0.1 -470 μF</td></tr>
<tr><td>4</td><td>靜電容量容許差
Capacitance Tolerance</td><td>±20%， ±10(K)(at +20℃,120Hz)</td></tr>
<tr><td>5</td><td>漏電電流
Leakage Current</td><td>Less than 0.002CV or 0.5(μA) after five minutes</td></tr>
<tr><td>6</td><td>損失角
Dissipation Factor(tan δ)
(120Hz\20 ℃)</td><td>
<table>
<tr><td>Capacitance (μF)</td><td>0.1-1</td><td>1.5-6.8</td><td>10-68</td><td>100-470</td></tr>
<tr><td>tan σ</td><td>0.06</td><td>0.08</td><td>0.09</td><td>0.12</td></tr>
</table>
</td></tr>
<tr><td>7</td><td>温度特性(at 120 Hz)
Characteriatics at
low temperature
(stability at 120 Hz)</td><td>
<table>
<tr><td>Temperature</td><td>-40℃</td><td>+105℃</td></tr>
<tr><td>Leakage Current</td><td>— —</td><td>Less than or equal to 0.1 CV 5μA whichever is large</td></tr>
<tr><td>Change in Capacitance</td><td>Within ±20%</td><td>Within ±12%</td></tr>
<tr><td>tan σ</td><td>Less than or equal to the value in NO.6+0.02</td><td>Less than or equal to the value in NO.6+0.02</td></tr>
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<tr><td>8</td><td>高温負荷特性
High Temperature Loading</td><td>After 2000hrs, application of DC rated working voltage at +105℃
The capacitor shall meet the following limits;
Post test requirements at +20℃
<table>
<tr><td>Leakage Current</td><td>125% or less of the value in NO.5</td></tr>
<tr><td>Capacitance change</td><td>Within± 20% of initial value</td></tr>
<tr><td>Dissipation Factor (tan σ)</td><td>Less than equal to the value in NO.6</td></tr>
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</td></tr>
<tr><td>9</td><td>高温無負荷特性
Shelf Life</td><td>After storage for 500 hrs, at +105℃with no voltage applied.
Post test requirements at +20℃
same limits for high temperature loading.</td></tr>
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