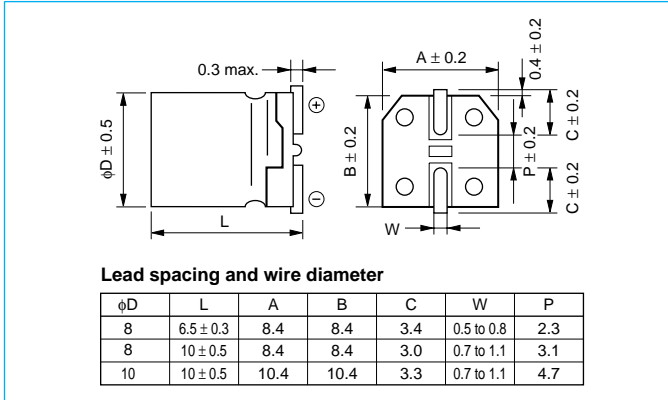


RV Vertical Chip Electrolytic Capacitors

Series RV Chip Aluminum Electrolytic Capacitors.

- For surface mount 85°C, large capacitance and series up to 1000µF.
- Carrier taping supplied.

Outline Drawing



Unit: mm

Photo



Specifications

| No. | Item | Performance | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|--|--|-------------------|----------|-----------------|---------------------------------|-----------------------|------------------------------|-------|---|-----|-----------------|---------------|------|------|------|------|------|------|------|---------------|---|---|---|---|---|---|---|
| 1 | Temperature range (°C) | -40 to +85°C | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Leakage current (µA) | Less than 0.01 CV or 3 whichever is larger (after two minutes) C: Capacitance (µF), V: Voltage (V) (20°C) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Capacitance tolerance (%) | ±20 (20°C, 120 Hz) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Tangent of loss angle (tan δ) | <table border="1"> <thead> <tr> <th>Rated voltage (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> </tr> </thead> <tbody> <tr> <td>tan δ</td> <td>0.28</td> <td>0.24</td> <td>0.20</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.10</td> <td>0.10</td> </tr> </tbody> </table> <p>(20°C, 120 Hz)</p> | Rated voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | tan δ | 0.28 | 0.24 | 0.20 | 0.14 | 0.12 | 0.10 | 0.10 | 0.10 | | | | | | | | |
| Rated voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | | | | | | | | | | | | | | | | | | | | |
| tan δ | 0.28 | 0.24 | 0.20 | 0.14 | 0.12 | 0.10 | 0.10 | 0.10 | | | | | | | | | | | | | | | | | | | | |
| 5 | Stability at low temperature | <table border="1"> <thead> <tr> <th>Rated voltage (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Impedance ratio</td> <td>Z-25°C/Z+20°C</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-40°C/Z+20°C</td> <td>8</td> <td>5</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </tbody> </table> <p>(120 Hz)</p> | Rated voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | Impedance ratio | Z-25°C/Z+20°C | 4 | 3 | 2 | 2 | 2 | 2 | 2 | Z-40°C/Z+20°C | 8 | 5 | 4 | 3 | 3 | 3 | 3 |
| Rated voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | | | | | | | | | | | | | | | | | | | | |
| Impedance ratio | Z-25°C/Z+20°C | 4 | 3 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | |
| | Z-40°C/Z+20°C | 8 | 5 | 4 | 3 | 3 | 3 | 3 | | | | | | | | | | | | | | | | | | | | |
| 6 | Endurance (85°C) (Applied ripple current) | <table border="1"> <tbody> <tr> <td>Test time</td> <td>2000 hrs</td> </tr> <tr> <td>Leakage current</td> <td>Initial specified value or less</td> </tr> <tr> <td>Change in capacitance</td> <td>Within ±20% of initial value</td> </tr> <tr> <td>tan δ</td> <td>200% or less of initial specified value</td> </tr> </tbody> </table> | Test time | 2000 hrs | Leakage current | Initial specified value or less | Change in capacitance | Within ±20% of initial value | tan δ | 200% or less of initial specified value | | | | | | | | | | | | | | | | | | |
| Test time | 2000 hrs | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leakage current | Initial specified value or less | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Change in capacitance | Within ±20% of initial value | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| tan δ | 200% or less of initial specified value | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Max. storage temp. (85°C) | Test time 1000 hrs. Others have same as endurance. Voltage application treatment. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | Applicable Standards | JIS C 5101-1, 5101-18 1998 (IEC 60384-1 1992, 60384-18 1993) | | | | | | | | | | | | | | | | | | | | | | | | | | |

Coefficients of Frequency for Ripple Current

| Frequency (Hz) \ Rated Voltage (V) | 50 • 60 | 120 | 1 k | 10 k • 100 k |
|------------------------------------|---------|-----|------|--------------|
| 6.3 to 16 | 0.80 | 1 | 1.15 | 1.25 |
| 25 to 35 | 0.80 | 1 | 1.25 | 1.40 |
| 50 to 63 | 0.80 | 1 | 1.35 | 1.50 |
| 100 | 0.70 | 1 | 1.35 | 1.50 |

Coefficients of Temperature for Ripple Current

| Temperature (°C) | +70 or less | +85 |
|------------------|-------------|-----|
| Coefficients | 1.35 | 1 |

RV Vertical Chip Electrolytic Capacitors

Case size by working voltage & capacitance (in mm)

(mm)

| WV(V) Cap.(μF) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 |
|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| 10 | | | | | | | | 8 x 10 |
| 22 | | | | | | 8 x 6.5 | 8 x 10 | 10 x 10 |
| 33 | | | | | 8 x 6.5 | 8 x 6.5 | 8 x 10 | 10 x 10 |
| 47 | | | | 8 x 6.5 | 8 x 6.5 | 8 x 10 | 10 x 10 | |
| 68 | | | | | | | 10 x 10 | |
| 100 | | 8 x 6.5 | 8 x 6.5 | 8 x 6.5 | 8 x 10 | 10 x 10 | | |
| 220 | 8 x 6.5 | 8 x 6.5 | 8 x 10 | 8 x 10 | 10 x 10 | | | |
| 330 | 8 x 6.5 | 8 x 10 | 8 x 10 | 10 x 10 | | | | |
| 470 | 8 x 10 | 10 x 10 | 10 x 10 | | | | | |
| 1000 | 10 x 10 | | | | | | | |

Standard Ratings

| ELNA PART NO. / WV (V) | CAP. (μF) | SIZE (φ x L) (mm) | tan δ | ESR (Ω) | Ripple Current (mArms) |
|------------------------|-----------|-------------------|-------|---------|------------------------|
| 6.3 V | | | | | |
| RV-6V221MG68-R | 220 | 8 x 6.5 | 0.28 | 2.1 | 155 |
| RV-6V331MG68-R | 330 | 8 x 6.5 | 0.28 | 1.4 | 155 |
| RV-6V471MG10-R | 470 | 8 x 10 | 0.28 | 0.99 | 252 |
| RV-6V102MH10-R | 1000 | 10 x 10 | 0.28 | 0.46 | 458 |
| 10 V | | | | | |
| RV-10V101MG68-R | 100 | 8 x 6.5 | 0.24 | 4.0 | 155 |
| RV-10V221MG68-R | 220 | 8 x 6.5 | 0.24 | 1.8 | 155 |
| RV-10V331MG10-R | 330 | 8 x 10 | 0.24 | 1.2 | 252 |
| RV-10V471MH10-R | 470 | 10 x 10 | 0.24 | 0.85 | 458 |
| 16 V | | | | | |
| RV-16V101MG68-R | 100 | 8 x 6.5 | 0.20 | 3.3 | 155 |
| RV-16V221MG10-R | 220 | 8 x 10 | 0.20 | 1.5 | 252 |
| RV-16V331MG10-R | 330 | 8 x 10 | 0.20 | 1.0 | 252 |
| RV-16V471MH10-R | 470 | 10 x 10 | 0.20 | 0.71 | 458 |
| 25 V | | | | | |
| RV-25V470MG68-R | 47 | 8 x 6.5 | 0.14 | 4.9 | 155 |
| RV-25V101MG68-R | 100 | 8 x 6.5 | 0.14 | 2.3 | 155 |
| RV-25V221MG10-R | 220 | 8 x 10 | 0.14 | 1.1 | 252 |
| RV-25V331MH10-R | 330 | 10 x 10 | 0.14 | 0.70 | 458 |

| ELNA PART NO. / WV (V) | CAP. (μF) | SIZE (φ x L) (mm) | tan δ | ESR (Ω) | Ripple Current (mArms) |
|------------------------|-----------|-------------------|-------|---------|------------------------|
| 35 V | | | | | |
| RV-35V330MG68-R | 33 | 8 x 6.5 | 0.12 | 6.0 | 155 |
| RV-35V470MG68-R | 47 | 8 x 6.5 | 0.12 | 4.2 | 155 |
| RV-35V101MG10-R | 100 | 8 x 10 | 0.12 | 2.0 | 252 |
| RV-35V221MH10-R | 220 | 10 x 10 | 0.12 | 0.91 | 458 |
| 50 V | | | | | |
| RV-50V220MG68-R | 22 | 8 x 6.5 | 0.10 | 7.5 | 155 |
| RV-50V330MG68-R | 33 | 8 x 6.5 | 0.10 | 5.0 | 155 |
| RV-50V470MG10-R | 47 | 8 x 10 | 0.10 | 3.5 | 252 |
| RV-50V101MH10-R | 100 | 10 x 10 | 0.10 | 1.7 | 458 |
| 63 V | | | | | |
| RV-63V220MG10-R | 22 | 8 x 10 | 0.10 | 7.5 | 139 |
| RV-63V330MG10-R | 33 | 8 x 10 | 0.10 | 5.0 | 139 |
| RV-63V470MH10-R | 47 | 10 x 10 | 0.10 | 3.5 | 226 |
| RV-63V680MH10-R | 68 | 10 x 10 | 0.10 | 2.4 | 226 |
| 100 V | | | | | |
| RV-100V100MG10-R | 10 | 8 x 10 | 0.10 | 16.6 | 94 |
| RV-100V220MH10-R | 22 | 10 x 10 | 0.10 | 7.5 | 189 |
| RV-100V330MH10-R | 33 | 10 x 10 | 0.10 | 5.0 | 189 |

Note: ESR 120 Hz at 20°C
Allowable Ripple Current 120 Hz at 85°C



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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