

特性 Features

- 高能量密度
(2倍於2.5V/2.7V 超級電容器) Higher energy density
(2 times of 2.5V/2.7V EDLC)
- 快速充電/放電 Quick charge & discharge
- 符合RoHS無鉛要求 RoHS directive compliant



推薦應用領域 Recommended Applications

- 太陽能地磚燈 Solar Brick Light
- 再生能源儲能系統 Renewable Energy Storage Systems

規格 Specifications

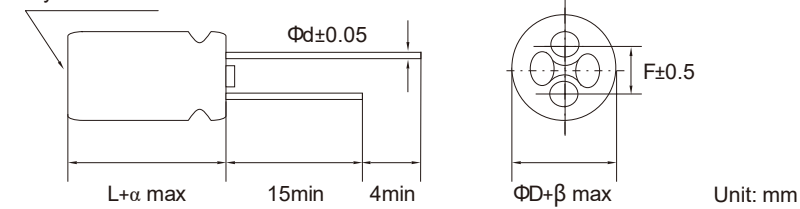
| 項目 Item | 性能 Performance Characteristics | |
|---------------------------------------|---|--|
| 溫度 Temperature | | |
| 工作溫度範圍 Operating Temperature Range | -25°C to +70°C | |
| 容量 Capacitance | | |
| 容量範圍 Nominal Capacitance Range | 10F to 800F | |
| 容量公差 Capacitance Tolerance | ± 20% or -20%~+50% | |
| 電壓 Voltage | | |
| 額定電壓 Rated Voltage | 2.3 V.DC | |
| 浪涌電壓 Surge Voltage | 2.5 V.DC | |
| 最大工作電壓 Maximum Operating Voltage | 2.3 V.DC | |
| 阻抗 Resistance | | |
| 直流等值阻抗 ESR, DC | 參見附件電性能列表 Please see the attached characteristics list | |
| 交流等值阻抗 ESR, AC | 參見附件電性能列表 (1kHz/20°C) Please see the attached characteristics list (1kHz/20°C) | |
| 壽命 Lifespan | | |
| 貯存壽命 Shelf Life | +70°C下無負荷貯存1,000小時後電容器符合規定的限值 After 1,000 hours storage at +70°C without load, the capacitor shall meet the specified limits for endurance. | |
| 耐用性 Endurance | +70°C下採用額定電壓1,000小時後電容器符合以下限定值 After 1,000 hours application of rated voltage at +70°C, the capacitor shall meet the following limits. | |
| | 容量變化 Capacitance Change | 初始測試值的± 30% ± 30% of initial measured value |
| | 內阻 Internal Resistance | ≤ 初始規定值的2倍 ≤ 2 times of initial specified value |
| 循環次數 Cycles | | |
| 循環次數 Cycles | 在+25°C下, 用恒定電流使電容器在規定電壓和半額定電壓間循環充放電 (25,000次) Capacitors cycles between specified voltage and half rated voltage under constant current at +25°C (25,000 cycles) | |
| | 容量變化 Capacitance Change | 初始測試值的± 30% ± 30% of initial measured value |
| | 內阻 Internal Resistance | ≤ 初始規定值的2倍 ≤ 2 times of initial specified value |

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殼號尺寸表 Case Size Table

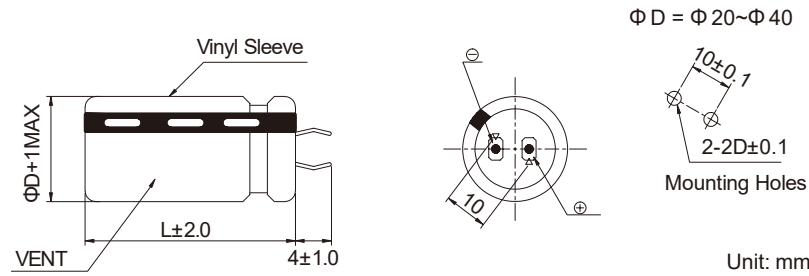
端子 Terminal: RR

Safety vent for $\Phi \geq 6.3$



| | | | | |
|----------|-----------|------|-----------|-----|
| ΦD | 10 | 12.5 | 16 | 18 |
| F | 5.0 | 5.0 | 7.5 | 7.5 |
| Φd | 0.6 | 0.6 | 0.8 | 0.8 |
| α | 2.0 | | | |
| β | (D<20)0.5 | | (D≥20)1.0 | |

端子 Terminal: SZ



電性能列表 Characteristics List

| 產品編碼 Part Number | 額定電壓 Rated Voltage (V.DC) | 額定容量 Rated Cap. (F) | 尺寸 Size 直徑 x 長度 $\Phi D \times L$ (mm) | 直流等值阻抗 ESR, DC ($m\Omega$) (max) | 交流等值阻抗 ESR, AC ($m\Omega$) (max) at 1kHz/20°C | 漏電流 Leakage Current (mA/72hrs) |
|---------------------|---------------------------------|---------------------------|---|--|--|--------------------------------------|
| DRC106S03G20RR | 2.3 | 10 | 10 x 20 | 400 | 220 | 0.050 |
| DRC226S03I20RR | 2.3 | 22 | 12.5 x 20 | 170 | 120 | 0.065 |
| DRC306S03I25RR | 2.3 | 30 | 12.5 x 25 | 160 | 100 | 0.085 |
| DRC506S03K25RR | 2.3 | 50 | 16 x 25 | 100 | 60 | 0.110 |
| DRC706S03K35RR | 2.3 | 70 | 16 x 35 | 85 | 50 | 0.150 |
| DRC127S03L40RR | 2.3 | 120 | 18 x 40 | 65 | 35 | 0.400 |
| DRC407S03P45SZ | 2.3 | 400 | 30 x 45 | 25 | 20 | 2.000 |
| DRC607S03P60SZ | 2.3 | 600 | 30 x 60 | 20 | 15 | 4.000 |
| DRC807S03Q70SZ | 2.3 | 800 | 35 x 70 | 15 | 10 | 7.200 |

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特性 Features

- 小型化, 大容量, 耐高溫
Miniaturized, high capacitance and high temperature
- 快速充電/放電 Quick charge & discharge
- 符合RoHS無鉛要求 RoHS directive compliant



推薦應用領域 Recommended Applications

- 消費類電器 Consumer Electronics • 工業與汽車 Industrial and Automation
- 便携式電源工具 Portable Power Tools • 再生能源儲能系統 Renewable Energy Storage Systems
- 短期UPS (不間斷電源) Short Term UPS (Uninterruptible Power Supply)

規格 Specifications

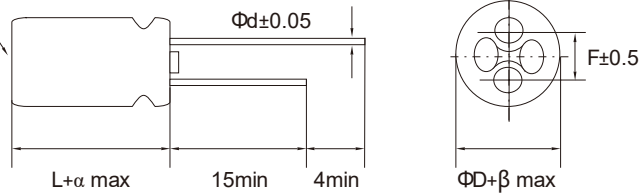
| 項目 Item | 性能 Performance Characteristics | |
|---|---|--|
| 溫度 Temperature | | |
| 工作溫度範圍 Operating Temperature Range | -25°C to +70°C | |
| 容量 Capacitance | | |
| 容量範圍 Nominal Capacitance Range | 1.0F to 350F | |
| 容量公差 Capacitance Tolerance | ± 20% or -20%~+50% | |
| 電壓 Voltage | | |
| 額定電壓 Rated Voltage | 2.5 V.DC | |
| 浪涌電壓 Surge Voltage | 2.7 V.DC | |
| 最大工作電壓 Maximum Operating Voltage | 2.5 V.DC | |
| 阻抗 Resistance | | |
| 直流等值阻抗 ESR, DC | 參見附件電性能列表 (表1) Please see the attached characteristics list (table 1) | |
| 交流等值阻抗 ESR, AC | 參見附件電性能列表 (1kHz/20°C) (表1) Please see the attached characteristics list (1kHz/20°C) (table 1) | |
| 功率 Power | | |
| 功率 Pv | 參見附件電性能列表 (表2) Please see the attached characteristics list (table 2) | |
| 能量 Energy | | |
| 能量密度 Energy Density (E _{max}) | 參見附件電性能列表 (表2) Please see the attached characteristics list (table 2) | |
| 壽命 Lifespan | | |
| 貯存壽命 Shelf Life | +70°C下無負荷貯存1,000小時後電容器符合規定的限值 After 1,000 hours storage at +70°C without load, the capacitor shall meet the specified limits for endurance. | |
| 耐用性 Endurance | +70°C下採用額定電壓1,000小時後電容器符合以下限定值 After 1,000 hours application of rated voltage at +70°C, the capacitor shall meet the following limits. | |
| | 容量變化 Capacitance Change | 初始測試值的± 30% ± 30% of initial measured value |
| | 內阻 Internal Resistance | ≤ 初始規定值的2倍 ≤ 2 times of initial specified value |
| 循環次數 Cycles | | |
| 循環次數 Cycles | 在+25°C下, 用恒定電流使電容器在規定電壓和半額定電壓間循環充放電 (500,000次) Capacitors cycles between specified voltage and half rated voltage under constant current at +25°C (500,000 cycles) | |
| | 容量變化 Capacitance Change | 初始測試值的± 30% ± 30% of initial measured value |
| | 內阻 Internal Resistance | ≤ 初始規定值的2倍 ≤ 2 times of initial specified value |

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壳號尺寸表 Case Size Table

端子 Terminal: RR

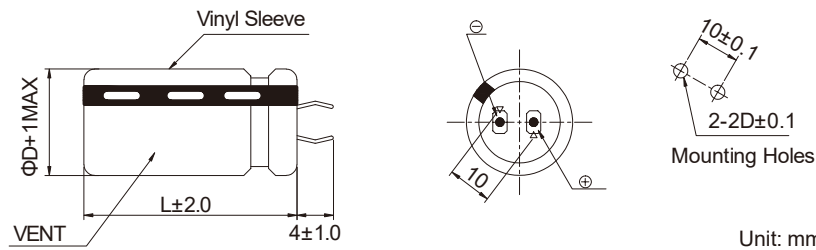
Safety vent for $\Phi \geq 6.3$



Unit: mm

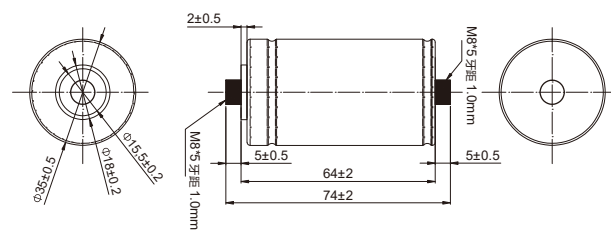
| | | | | | | |
|----------|-----------|---------|-----------|------|-----|-----|
| ΦD | 8(L<20) | 8(L≥20) | 10 | 12.5 | 16 | 18 |
| F | 3.5 | 3.5 | 5.0 | 5.0 | 7.5 | 7.5 |
| Φd | 0.5 | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 |
| α | (L<20)1.5 | | (L≥20)2.0 | | | |
| β | (D<20)0.5 | | (D≥20)1.0 | | | |

端子 Terminal: SZ



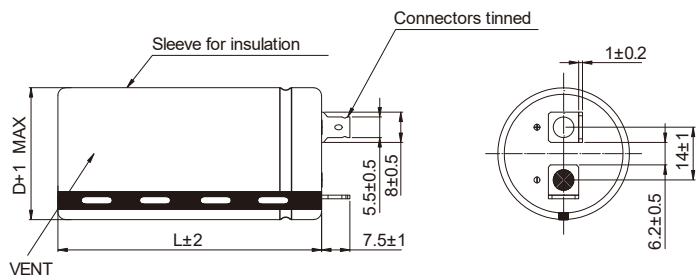
Unit: mm

端子 Terminal: AE (350F)



Unit: mm

端子 Terminal: L6



Unit: mm

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電性能列表 Characteristics List

• 表1 Table 1

| 產品編碼 Part Number | 額定 電壓 Rated Voltage (V.DC) | 額定 容量 Rated Cap. (F) | 尺寸 Size 直徑 x 長度 Φ D x L (mm) | 直流等值 阻抗 ESR, DC (mΩ) (max) | 交流等值 阻抗 ESR, AC (mΩ) (max) at 1kHz/20°C | 漏電流 Leakage Current (mA/72hrs) | 短路電流 Short Circuit Current (A) | 最大 持續電流 Maximum Continuous Current (A) ($\Delta T=15^{\circ}\text{C}$) | 最大 峰值電流 Maximum Peak Current (Isc) (A) |
|---------------------|--|----------------------------------|--|-------------------------------------|---|---|--|---|---|
| DRE105S0EF12RR | 2.5 | 1.0 | 8 x 12 | 1000 | 500 | 0.008 | 2.5 | 0.3 | 0.63 |
| DRE205S0EF16RR | 2.5 | 2.0 | 8 x 16 | 550 | 350 | 0.010 | 4.5 | 0.5 | 1.19 |
| DRE305S0EF20RR | 2.5 | 3.0 | 8 x 20 | 410 | 260 | 0.012 | 6.1 | 0.7 | 1.68 |
| DRE335S0EG20RR | 2.5 | 3.3 | 10 x 20 | 320 | 200 | 0.014 | 7.8 | 0.8 | 2.01 |
| DRE475S0EG20RR | 2.5 | 4.7 | 10 x 20 | 290 | 180 | 0.016 | 8.6 | 0.8 | 2.49 |
| DRE705S0EG25RR | 2.5 | 7.0 | 10 x 25 | 220 | 140 | 0.020 | 11.3 | 1.0 | 3.44 |
| DRE106S0EG30RR | 2.5 | 10 | 10 x 30 | 165 | 110 | 0.030 | 15.2 | 1.3 | 4.72 |
| DRE106S0EI25RR | 2.5 | 10 | 12.5 x 25 | 160 | 100 | 0.030 | 15.6 | 1.3 | 4.81 |
| DRE256S0EK25RR | 2.5 | 25 | 16 x 25 | 100 | 60 | 0.060 | 25.0 | 1.9 | 8.93 |
| DRE306S0EK30RR | 2.5 | 30 | 16 x 30 | 70 | 40 | 0.070 | 35.7 | 2.5 | 12.1 |
| DRE506S0EL40RR | 2.5 | 50 | 18 x 40 | 50 | 30 | 0.160 | 50.0 | 3.6 | 17.9 |
| DRE107S0EL60RR | 2.5 | 100 | 18 x 60 | 35 | 25 | 0.300 | 71 | 5.2 | 27.8 |
| DRE107S0EN45SZ | 2.5 | 100 | 22 x 45 | 35 | 25 | 0.300 | 71 | 5.2 | 27.8 |
| DRE157S0EO55SZ | 2.5 | 150 | 25 x 55 | 30 | 22 | 0.550 | 83 | 6.4 | 34.1 |
| DRE207S0EP50SZ | 2.5 | 200 | 30 x 50 | 25 | 20 | 0.700 | 100 | 7.4 | 41.7 |
| DRE257S0EP55SZ | 2.5 | 250 | 30 x 55 | 22 | 18 | 0.800 | 114 | 8.3 | 48.1 |
| DRE357S0EQ60SZ | 2.5 | 350 | 35 x 60 | 15 | 12 | 1.000 | 167 | 11.3 | 70.0 |
| DRE357S0EQ60AE | 2.5 | 350 | 35 x 60 | 3 | 2.5 | 1.000 | 833 | 20.6 | 213.4 |

* High Pd (W/kg) and Energy Density (E_{max}(Wh/kg))

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電性能列表 Characteristics List

• 表2 Table 2

| | | | | | | | | | |
|---|--------|--------|--------|---------|---------|---------|---------|-----------|---------|
| 額定容量 Rated Capacitance (F) | 1 | 2 | 3 | 3.3 | 4.7 | 7 | 10 | 10 | 25 |
| 尺寸 Size 直徑 x 長度 Φ D x L (mm) | 8 x 12 | 8 x 16 | 8 x 20 | 10 x 20 | 10 x 20 | 10 x 25 | 10 x 30 | 12.5 x 25 | 16 x 25 |
| 功率密度 (W/kg) Power Density (W/kg) | 794 | 1145 | 1473 | 1071 | 1151 | 1384 | 1458 | 1170 | 1036 |
| 能量密度 Energy Density 最高能量值 Emax (Wh/kg) | 0.9 | 1.5 | 1.6 | 1.3 | 1.8 | 2.5 | 2.5 | 2.2 | 2.6 |
| 最大能量 Maximum Energy 最高能量值 Emax (mAh) | 0.87 | 1.74 | 2.60 | 2.86 | 4.08 | 6.08 | 8.68 | 8.68 | 19.10 |

| | | | | | | | | | |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 額定容量 Rated Capacitance (F) | 30 | 50 | 100 | 100 | 150 | 200 | 250 | 350 | 350 |
| 尺寸 Size 直徑 x 長度 Φ D x L (mm) | 16 x 30 | 18 x 40 | 18 x 60 | 22 x 45 | 25 x 55 | 30 x 50 | 30 x 55 | 35 x 60 | 35 x 60 |
| 功率密度 (W/kg) Power Density (W/kg) | 1162 | 1067 | 984 | 866 | 723 | 652 | 673 | 676 | 2631 |
| 能量密度 Energy Density 最高能量值 Emax (Wh/kg) | 2.8 | 3.1 | 4.0 | 3.5 | 3.8 | 3.8 | 4.3 | 4.1 | 3.2 |
| 最大能量 Maximum Energy 最高能量值 Emax (mAh) | 26.0 | 43.4 | 86.8 | 86.80 | 130.20 | 173.60 | 217.00 | 303.80 | 303.80 |

* High Pd (W/kg) and Energy Density (Emax(Wh/kg))

其它技術信息 Additional Technical Information

Ic = 25°C下72小時後的漏電流

Ic = leakage current after 72 hours at 25°C

Isc = 短路電流 (最大峰值電流)

Isc = short circuit current (maximum peak current)

R_{DC} = 直流內阻 (DC)

R_{DC} = internal resistance (DC)

M = 電容器總重 (kg)

M = capacitor mass (kg)

功率密度

最高能量值

最大峰值電流 (1秒)

$$Pd=(0.12xU^2/R_{DC})/M$$

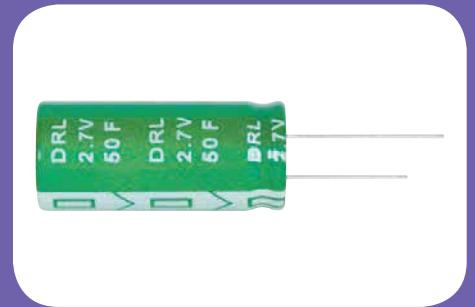
$$Emax=(0.5CU^2)/(3600xM)$$

$$\text{Maximum Peak Current (1 sec)}=0.5U/(ESR_{DC}+1/C)$$

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特性 Features

- 小型化, 大容量, 耐高溫
Miniaturized, high capacitance and high temperature
- 快速充電/放電 Quick charge & discharge
- 符合RoHS無鉛要求 RoHS directive compliant



推薦應用領域 Recommended Applications

- 消費類電器 Consumer Electronics • 工業與汽車 Industrial and Automation
- 便携式電源工具 Portable Power Tools • 再生能源儲能系統 Renewable Energy Storage Systems
- 短期UPS (不間斷電源) Short Term UPS (Uninterruptible Power Supply)

規格 Specifications

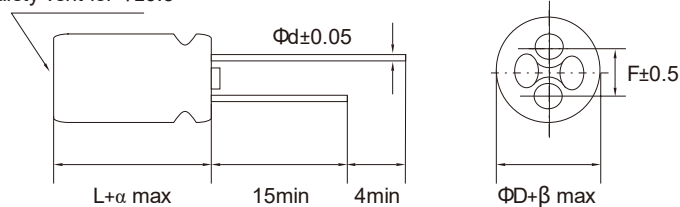
| 項目 Item | 性能 Performance Characteristics | |
|---|---|--|
| 溫度 Temperature | | |
| 工作溫度範圍 Operating Temperature Range | -40°C to +70°C | |
| 容量 Capacitance | | |
| 容量範圍 Nominal Capacitance Range | 1.0F to 500F | 1200F to 3000F |
| 容量公差 Capacitance Tolerance | ± 20% or -20%~+50% | -10%~+20% |
| 電壓 Voltage | | |
| 額定電壓 Rated Voltage | 2.7 V.DC | |
| 浪涌電壓 Surge Voltage | 2.8 V.DC | |
| 最大工作電壓 Maximum Operating Voltage | 2.7 V.DC | |
| 阻抗 Resistance | | |
| 直流等值阻抗 ESR, DC | 參見附件電性能列表 (表1) Please see the attached characteristics list (table 1) | |
| 交流等值阻抗 ESR, AC | 參見附件電性能列表 (1kHz/20°C) (表1) Please see the attached characteristics list (1kHz/20°C) (table 1) | |
| 功率 Power | | |
| 功率 Pv | 參見附件電性能列表 (表2) Please see the attached characteristics list (table 2) | |
| 能量 Energy | | |
| 能量密度 Energy Density (E _{max}) | 參見附件電性能列表 (表2) Please see the attached characteristics list (table 2) | |
| 壽命 Lifespan | | |
| 貯存壽命 Shelf Life | +70°C下無負荷貯存1,000小時後電容器符合規定的限值 After 1,000 hours storage at +70°C without load, the capacitor shall meet the specified limits for endurance. | |
| 耐用性 Endurance | +70°C下採用額定電壓1,000小時後電容器符合以下限定值 After 1,000 hours application of rated voltage at +70°C, the capacitor shall meet the following limits. | |
| | 容量變化 Capacitance Change | 初始測試值的 ± 30% ± 30% of initial measured value |
| | 內阻 Internal Resistance | ≤ 初始規定值的2倍 ≤ 2 times of initial specified value |
| 循環次數 Cycles | | |
| 循環次數 Cycles | 在+25°C下, 用恒定電流使電容器在規定電壓和半額定電壓間循環充放電 (500,000次) Capacitors cycles between specified voltage and half rated voltage under constant current at +25°C (500,000 cycles) | |
| | 容量變化 Capacitance Change | 初始測試值的 ± 30% ± 30% of initial measured value |
| | 內阻 Internal Resistance | ≤ 初始規定值的2倍 ≤ 2 times of initial specified value |

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壳號尺寸表 Case Size Table

端子 Terminal: RR

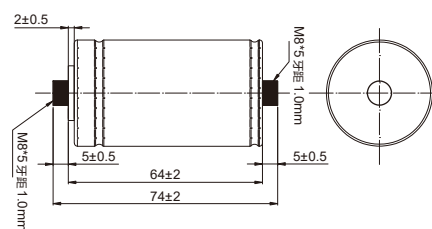
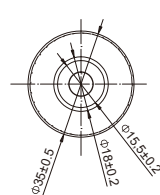
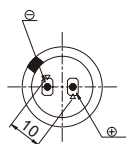
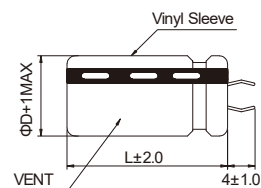
Safety vent for $\Phi \geq 6.3$



Unit: mm

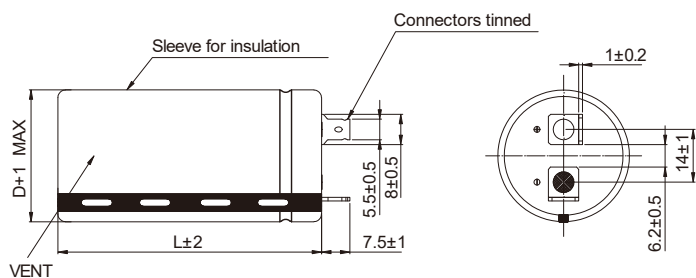
| | | | | | | |
|----------|-----------|---------|-----------|------|-----|-----|
| ΦD | 8(L<20) | 8(L≥20) | 10 | 12.5 | 16 | 18 |
| F | 3.5 | 3.5 | 5.0 | 5.0 | 7.5 | 7.5 |
| Φd | 0.5 | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 |
| α | (L<20)1.5 | | (L≥20)2.0 | | | |
| β | (D<20)0.5 | | (D≥20)1.0 | | | |

端子 Terminal: SC



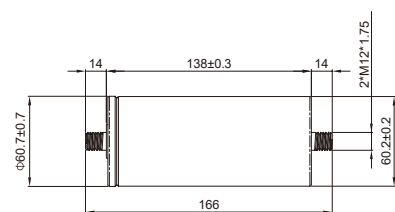
Unit: mm

端子 Terminal: L6

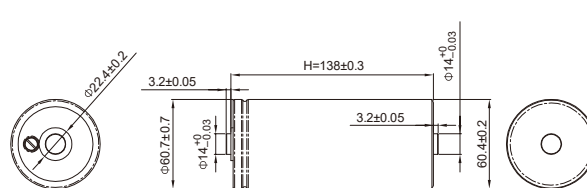


Unit: mm

端子 Terminal: A4 (3000F)



端子 Terminal: A3 (3000F)



Unit: mm

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電性能列表 Characteristics List

• 表1 Table 1

| 產品編碼 Part Number | 額定電壓 Rated Voltage (V.DC) | 額定容量 Rated Cap. (F) | 尺寸 Size 直徑 x 長度 Φ D x L (mm) | 直流等值 阻抗 ESR, DC (mΩ) (max) | 交流等值 阻抗 ESR, AC (mΩ) (max) at 1kHz/20°C | 漏電流 Leakage Current (mA/72hrs) | 短路電流 Short Circuit Current (A) | 最大 持續電流 Maximum Continuous Current (A) (Δ T=15°C) | 最大 峰值電流 Maximum Peak Current (Isc) (A) |
|---------------------|------------------------------|------------------------|---------------------------------------|----------------------------------|---|-----------------------------------|-----------------------------------|---|--|
| DRL105S0TF12RR | 2.7 | 1.0 | 8 x 12 | 850 | 400 | 0.008 | 3.17 | 0.4 | 0.73 |
| DRL205S0TF16RR | 2.7 | 2.0 | 8 x 16 | 470 | 280 | 0.010 | 5.74 | 0.5 | 1.39 |
| DRL305S0TF20RR | 2.7 | 3.0 | 8 x 20 | 250 | 160 | 0.012 | 10.8 | 0.8 | 2.31 |
| DRL335S0TG20RR | 2.7 | 3.3 | 10 x 20 | 270 | 160 | 0.014 | 10.0 | 0.8 | 2.36 |
| DRL475S0TG20RR | 2.7 | 4.7 | 10 x 20 | 250 | 140 | 0.016 | 10.8 | 0.9 | 2.92 |
| DRL705S0TG25RR | 2.7 | 7.0 | 10 x 25 | 200 | 100 | 0.020 | 13.5 | 1.0 | 3.94 |
| DRL106S0TG30RR | 2.7 | 10 | 10 x 30 | 130 | 80 | 0.030 | 20.7 | 1.4 | 5.87 |
| DRL106S0T125RR | 2.7 | 10 | 12.5 x 25 | 140 | 80 | 0.030 | 19.3 | 1.4 | 5.63 |
| DRL226S0TK25RR | 2.7 | 22 | 16 x 25 | 85 | 40 | 0.060 | 31.7 | 2.1 | 10.35 |
| DRL306S0TK30RR | 2.7 | 30 | 16 x 30 | 60 | 30 | 0.070 | 45.0 | 2.7 | 14.5 |
| DRL506S0TL40RR | 2.7 | 50 | 18 x 40 | 40 | 25 | 0.160 | 67.5 | 4.0 | 22.5 |
| DRL107S0TL60RR | 2.7 | 100 | 18 x 60 | 28 | 20 | 0.300 | 96.4 | 5.8 | 35.5 |
| DRL107S0TN45SC | 2.7 | 100 | 22 x 45 | 28 | 18 | 0.300 | 96.4 | 5.8 | 35.5 |
| DRL157S0TO55SC | 2.7 | 150 | 25 x 55 | 25 | 16 | 0.550 | 108.0 | 7.0 | 42.6 |
| DRL207S0TP50SC | 2.7 | 200 | 30 x 50 | 20 | 15 | 0.700 | 135.0 | 8.3 | 54.0 |
| DRL257S0TP55SC | 2.7 | 250 | 30 x 55 | 18 | 13 | 0.800 | 150.0 | 9.1 | 61.4 |
| DRL357S0TQ60SC | 2.7 | 350 | 35 x 60 | 12 | 10 | 1.000 | 225.0 | 12.7 | 90.9 |
| DRL357S0TQ60A5 | 2.7 | 350 | 35 x 60 | 2.4 | 2 | 1.000 | 1125 | 23.1 | 256.8 |
| DRL128V0T680A4 | 2.7 | 1200 | 60 x 80 | 0.7 | 0.60 | 2.700 | 3857 | 64.0 | 880.4 |
| DRL158V0T690A4 | 2.7 | 1500 | 60 x 90 | 0.6 | 0.50 | 3.000 | 4500 | 75.0 | 1065.8 |
| DRL188V0T61MA4 | 2.7 | 1800 | 60 x 110 | 0.55 | 0.45 | 4.000 | 4909 | 85.0 | 1221.1 |
| DRL208V0T61NA4 | 2.7 | 2000 | 60 x 120 | 0.45 | 0.40 | 5.000 | 6000 | 100.0 | 1421.1 |
| DRL258V0T61YA4 | 2.7 | 2500 | 60 x 138 | 0.42 | 0.36 | 5.500 | 6429 | 106.0 | 1646.3 |
| DRL308V0T61YA4 | 2.7 | *3000 | 60 x 138 | 0.43 | 0.38 | 7.000 | 6279 | 105.0 | 1768.6 |
| DRL308V0T61EA4 | 2.7 | 3000 | 60 x 155 | 0.40 | 0.35 | 7.000 | 6750 | 116.0 | 1840.9 |

* High Pd (W/kg) and Energy Density (E_{max}(Wh/kg))

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電性能列表 Characteristics List

• 表2 Table 2

| | | | | | | | | | |
|---|--------|--------|--------|---------|---------|---------|---------|-----------|---------|
| 額定容量 Rated Capacitance (F) | 1 | 2 | 3 | 3.3 | 4.7 | 7 | 10 | 10 | 22 |
| 尺寸 Size 直徑 x 長度 ΦD x L (mm) | 8 x 12 | 8 x 16 | 8 x 20 | 10 x 20 | 10 x 20 | 10 x 25 | 10 x 30 | 12.5 x 25 | 16 x 25 |
| 功率密度 (W/kg) Power Density (W/kg) | 1338 | 1756 | 2647 | 1580 | 1645 | 1934 | 2057 | 1755 | 1650 |
| 能量密度 Energy Density 最高能量值 Emax (Wh/kg) | 1.3 | 1.9 | 2.3 | 1.6 | 2.2 | 3.1 | 3.1 | 2.8 | 3.6 |
| 最大能量 Maximum Energy 最高能量值 Emax (mAh) | 1.01 | 2.03 | 3.04 | 3.34 | 4.76 | 7.09 | 10.1 | 10.1 | 22.3 |

| | | | | | | | | | |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 額定容量 Rated Capacitance (F) | 30 | 50 | 100 | 100 | 150 | 200 | 250 | 350 | 350 |
| 尺寸 Size 直徑 x 長度 ΦD x L (mm) | 16 x 30 | 18 x 40 | 18 x 60 | 22 x 45 | 25 x 55 | 30 x 50 | 30 x 55 | 35 x 60 | 35 x 60 |
| 功率密度 (W/kg) Power Density (W/kg) | 1768 | 1770 | 1625 | 1595 | 1144 | 1092 | 1078 | 1115 | 4288 |
| 能量密度 Energy Density 最高能量值 Emax (Wh/kg) | 3.7 | 4.1 | 5.3 | 5.2 | 5.0 | 5.1 | 5.6 | 5.4 | 4.16 |
| 最大能量 Maximum Energy 最高能量值 Emax (mAh) | 30.4 | 50.6 | 101 | 101.00 | 151.80 | 202.50 | 253.10 | 354.3 | 354.3 |

| | | | | | | | | |
|---|---------|---------|---------|----------|----------|----------|----------|----------|
| 額定容量 Rated Capacitance (F) | 500 | 1200 | 1500 | 1800 | 2000 | 2500 | *3000 | 3000 |
| 尺寸 Size 直徑 x 長度 ΦD x L (mm) | 35 x 95 | 60 x 80 | 60 x 90 | 60 x 110 | 60 x 120 | 60 x 138 | 60 x 138 | 60 x 155 |
| 功率密度 (W/kg) Power Density (W/kg) | 848 | 4537 | 4773 | 4317 | 4813 | 4425 | 3614 | 3610 |
| 能量密度 Energy Density 最高能量值 Emax (Wh/kg) | 4.9 | 4.4 | 5.0 | 4.9 | 5.0 | 5.4 | 5.4 | 5.0 |
| 最大能量 Maximum Energy 最高能量值 Emax (mAh) | 506.25 | 1215.0 | 1518.8 | 1822.5 | 2025.00 | 2531.25 | 3037.5 | 3037.5 |

* High Pd (W/kg) and Energy Density (Emax(Wh/kg))

其它技術信息 Additional Technical Information

Ic = 25°C下72小時後的漏電流

Isc = 短路電流 (最大峰值電流)

R_{DC} = 直流內阻 (DC)

M = 電容器總重 (kg)

Ic = leakage current after 72 hours at 25°C

Isc = short circuit current (maximum peak current)

R_{DC} = internal resistance (DC)

M = capacitor mass (kg)

功率密度

$$Pd = (0.12 \times U^2 / R_{DC}) / M$$

最高能量值

$$Emax = (0.5CU^2) / (3600 \times M)$$

最大峰值電流 (1秒)

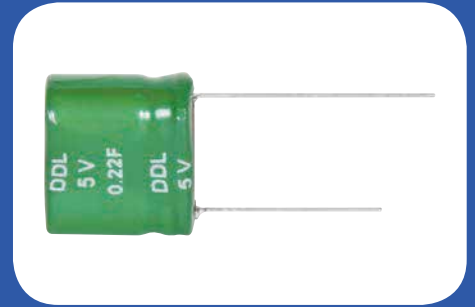
$$\text{Maximum Peak Current (1 sec)} = 0.5U / (ESR_{DC} + 1/C)$$

認證 Certifications : UL810a  (File No. MH49178)

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特性 Features

- 小型化, 高容量, 耐高溫
Miniaturized, high capacitance and high temperature
- 快速充電/放電 Quick charge & discharge
- 符合RoHS無鉛要求 RoHS directive compliant



推薦應用領域 Recommended Applications

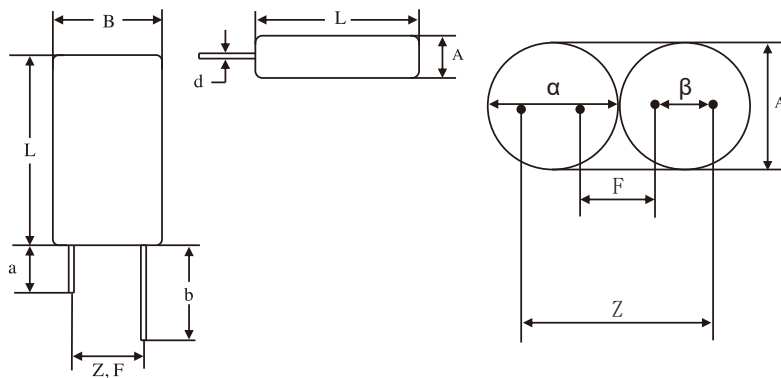
- 消費類電器 Consumer Electronics • 工業與汽車 Industrial and Automation
- 便携式電源工具 Portable Power Tools • 再生能源儲能系統 Renewable Energy Storage Systems
- 短期UPS (不間斷電源) Short Term UPS (Uninterruptible Power Supply)

規格 Specifications

| 項目 Item | 性能 Performance Characteristics | |
|---------------------------------------|---|--|
| 溫度 Temperature | | |
| 工作溫度範圍 Operating Temperature Range | -40°C to +70°C | |
| 容量 Capacitance | | |
| 容量範圍 Nominal Capacitance Range | 0.1F to 12F | |
| 容量公差 Capacitance Tolerance | ± 20% or -20%~+50% | |
| 電壓 Voltage | | |
| 額定電壓 Rated Voltage | 5.0 V.DC | |
| 浪涌電壓 Surge Voltage | 5.5 V.DC | |
| 最大工作電壓 Maximum Operating Voltage | 5.0 V.DC | |
| 阻抗 Resistance | | |
| 交流等值阻抗 ESR, AC | 參見附件電性能列表 (1kHz/20°C) Please see the attached characteristics list (1kHz/20°C) | |
| 壽命 Lifespan | | |
| 貯存壽命 Shelf Life | +70°C下無負荷貯存1,000小時後電容器符合規定的限值 After 1,000 hours storage at +70°C without load, the capacitor shall meet the specified limits for endurance. | |
| 耐用性 Endurance | +70°C下採用額定電壓1,000小時後電容器符合以下限定值 After 1,000 hours application of rated voltage at +70°C, the capacitor shall meet the following limits. | |
| | 容量變化 Capacitance Change | 初始測試值的 ± 30% ± 30% of initial measured value |
| | 內阻 Internal Resistance | ≤ 初始規定值的2倍 ≤ 2 times of initial specified value |
| 循環次數 Cycles | | |
| 循環次數 Cycles | 在+25°C下, 用恒定電流使電容器在規定電壓和半額定電壓間循環充放電 (500,000次) Capacitors cycles between specified voltage and half rated voltage under constant current at +25°C (500,000 cycles) | |
| | 容量變化 Capacitance Change | 初始測試值的 ± 30% ± 30% of initial measured value |
| | 內阻 Internal Resistance | ≤ 初始規定值的2倍 ≤ 2 times of initial specified value |

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壳號尺寸表 Case Size Table



註: 長導針為正極

Note: Longer lead is positive

尺寸 Dimensions (mm)

| 尺寸代碼 Size Code | A max. | B max. | L max. | d ± 0.05 | a min. | b min. | Z=α + β ± 0.50 | F=α - β ± 0.50 |
|-------------------|-----------|-----------|-----------|-------------|-----------|-----------|-------------------|-------------------|
| F1E | 9.0 | 17.5 | 15.5 | 0.50 | 15.0 | 19.0 | 11.80 | 4.80 |
| F1J | 9.0 | 17.5 | 19.5 | 0.50 | 15.0 | 19.0 | 11.80 | 4.80 |
| F2C | 9.0 | 17.5 | 23.5 | 0.60 | 15.0 | 19.0 | 11.80 | 4.80 |
| G2C | 11.0 | 21.5 | 23.5 | 0.60 | 15.0 | 19.0 | 15.30 | 5.30 |
| I2C | 13.5 | 30 | 23.5 | 0.60 | 15.0 | 19.0 | 22.20 | 12.20 |
| K29 | 17.0 | 37 | 29 | 0.80 | 15.0 | 19.0 | 26.80 | 11.80 |

電性能列表 Characteristics List

| 產品編碼 Part Number | 額定電壓 Rated Voltage (V.DC) | 額定容量 Rated Cap. (F) | 尺寸 Size (mm) 寬度 x 長度 x 高度 Width x Length x Height | 交流等值阻抗 ESR, AC (Ω) (max) at 1kHz/20°C | 漏電流 Leakage Current (mA/72hrs) |
|---------------------|---------------------------------|---------------------------|---|---|--------------------------------------|
| DDL104S0HF1ERR | 5.0 | 0.10 | 9 x 17.5 x 15.5 | 2.50 | 0.060 |
| DDL474S0HF1ERR | 5.0 | 0.47 | 9 x 17.5 x 15.5 | 2.00 | 0.080 |
| DDL105S0HF1JRR | 5.0 | 1.00 | 9 x 17.5 x 19.5 | 1.05 | 0.090 |
| DDL155S0HF2CRR | 5.0 | 1.50 | 9 x 17.5 x 23.5 | 0.60 | 0.180 |
| DDL255S0HG2CRR | 5.0 | 2.50 | 11 x 21.5 x 23.5 | 0.54 | 0.200 |
| DDL505S0HI2CRR | 5.0 | 5.00 | 13.5 x 30 x 23.5 | 0.42 | 0.250 |
| DDL126S05K29RR | 5.0 | 12.00 | 17 x 37 x 29 | 0.18 | 0.550 |

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