

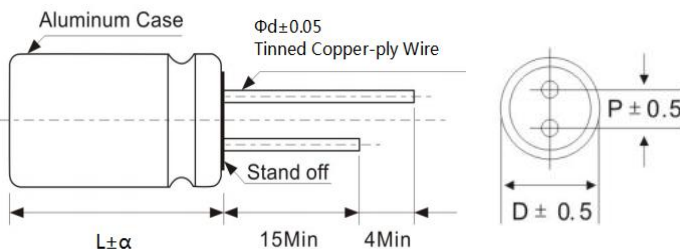
E2 Series

- Low ESR, high ripple current
- Load life of 2000 hours at 105°C
- RoHS Compliant

◆ 规格表 Specifications

| 项目 Items | 特性参数 Characteristics | | | | | | | | | | | |
|--|---|-------------------------------|---|-----|-----|-----|----------|----|----|----|----|------------------|
| 使用温度范围 Category Temperature Range | -55 ~ +105°C | | | | | | | | | | | |
| 额定工作电压范围 Rated Voltage Range | 2.5 ~ 25V | | | | | | | | | | | |
| 静电容量允许偏差 Capacitance tolerance | ±20%(M) (at 20°C, 120Hz) | | | | | | | | | | | |
| 漏电流 Leakage Current | 施加额定工作电压2分钟后读数, 小于或等于规格值 (at 20°C) I ≤ 0.2CV 或 500μA (取大值) Less than or equal to the specified value. After 2 minutes application of rated Voltage at 20°C | | | | | | | | | | | |
| 损耗角正切值 tanδ Dissipation Factor | Rated voltage (V) | 2.5 | 4 | 6.3 | 6.8 | 7.5 | 10 | 12 | 16 | 20 | 25 | (at 20°C, 120Hz) |
| | tanδ (Max.) | 0.08 | | | | | 0.12 | | | | | |
| 温度特性 Low Temperature Characteristics (Max. Impedance Ratio) | Z(-25°C)/Z(+20°C) | ≤ 1.25 | | | | | (100KHz) | | | | | |
| | Z(-55°C)/Z(+20°C) | ≤ 1.25 | | | | | | | | | | |
| 耐久性 Endurance | 105°C 施加额定工作电压2000小时, 恢复到20°C后, 产品性能应满足以下要求 The specifications listed below shall be satisfied when the capacitors are restored to 20°C after application of rated voltage for 2000 hours at 105°C. | | | | | | | | | | | |
| | Appearance | No significant damage | | | | | | | | | | |
| | Capacitance change | ≤ ±20% of the initial value | | | | | | | | | | |
| | D.F.(tanδ) | ≤ 150% of the specified value | | | | | | | | | | |
| | ESR | ≤ 150% of the specified value | | | | | | | | | | |
| | Leakage current | ≤ The specified value | | | | | | | | | | |
| 耐湿负荷特性 Damp Heat (Steady State) | 在60°C 温度, 湿度90%~95%RH的环境中, 施加额定电压1000小时后, 恢复到20°C后, 产品性能应满足以下要求 The specifications listed below shall be satisfied when the capacitors are restored to 20°C after application of rated voltage for 1000 hours at 60°C, 90%~ 95% RH. | | | | | | | | | | | |
| | Appearance | No significant damage | | | | | | | | | | |
| | Capacitance change | ≤ ±20% of the initial value | | | | | | | | | | |
| | D.F.(tanδ) | ≤ 150% of the specified value | | | | | | | | | | |
| | ESR | ≤ 150% of the specified value | | | | | | | | | | |
| | Leakage current | ≤ The specified value | | | | | | | | | | |
| 浪涌电压特性 (Surge Voltage) | 浪涌电压=额定电压× 1.15(V) Surge Voltage=Rated voltage × 1.15(V) 在105°C环境中, 按充电30秒; 放电5分30秒, 连续施加浪涌电压1000次(Rc=1kΩ), 待恢复后测试, 应满足以下要求 The capacitors shall be subjected to 1000 cycles each consisting of charge with the surge voltages specified at 105°C for 30 seconds through a protective resistor (Rc=1kΩ) and discharge for 5 minutes 30 seconds | | | | | | | | | | | |
| | Appearance | No significant damage | | | | | | | | | | |
| | Capacitance change | ≤ ±20% of the initial value | | | | | | | | | | |
| | D.F.(tanδ) | ≤ 150% of the specified value | | | | | | | | | | |
| | ESR | ≤ 150% of the specified value | | | | | | | | | | |
| | Leakage current | ≤ The specified value | | | | | | | | | | |

◆ 外形图 Dimensions (mm)



| | | | | |
|----|-----|-----|-----|-----|
| ΦD | 5 | 6.3 | 8 | 10 |
| P | 2.0 | 2.5 | 3.5 | 5.0 |
| Φd | 0.5 | 0.6 | 0.6 | 0.6 |

| | |
|---|-------------------|
| α | (L < 16) 1.0 |
| | (16 ≤ L < 22) 1.5 |
| | (L ≥ 22) 2.0 |

E2 Series

◆ 纹波电流修正系数 Rated Ripple Current Coefficient

| 频率 Frequency(Hz) | 120Hz ≤ f < 1kHz | 1kHz ≤ f < 10kHz | 10kHz ≤ f < 100kHz | 100kHz ≤ f < 500kHz |
|------------------|------------------|------------------|--------------------|---------------------|
| 系数 Coefficient | 0.05 | 0.30 | 0.70 | 1.00 |

◆ 尺寸与个技术参数一览表 Standard Ratings

| Rated voltage (V) | Rated capacitance (μF) | Case size ΦD×L(mm) | ESR(mΩ) at 20℃, 100 KHz | Leakage Current (μA) | Rated ripple current (mArms/105℃/100kHz) | Catalog Part Number |
|-------------------|------------------------|--------------------|-------------------------|----------------------|--|---------------------|
| 2.5 | 560 | 5*8 | 18 | 500 | 2900 | 8561LJM0508E2RR000 |
| | 560 | 6.3*8 | 15 | 500 | 3500 | 8561LJMAA08E2RR000 |
| | 680 | 6.3*8 | 15 | 500 | 3500 | 8681LJMAA08E2RR000 |
| | 680 | 8*9 | 12 | 500 | 5200 | 8681LJM0809E2RR000 |
| | 820 | 6.3*8 | 15 | 500 | 3500 | 8821LJMAA08E2RR000 |
| | 820 | 8*9 | 12 | 500 | 5200 | 8821LJM0809E2RR000 |
| | 1000 | 8*9 | 12 | 500 | 5500 | 8102LJM0809E2RR000 |
| | 1000 | 8*12 | 12 | 500 | 5500 | 8102LJM0812E2RR000 |
| | 1200 | 8*9 | 12 | 600 | 5500 | 8122LJM0809E2RR000 |
| | 1200 | 8*12 | 12 | 600 | 5500 | 8122LJM0812E2RR000 |
| | 1500 | 8*12 | 12 | 750 | 5500 | 8152LJM08128E2RR000 |
| 4 | 560 | 6.3*8 | 15 | 500 | 3100 | 8561LOMAA08E2RR000 |
| | 560 | 8*9 | 12 | 500 | 5100 | 8561LOM0809E2RR000 |
| | 680 | 6.3*8 | 15 | 544 | 3500 | 8681LOMAA08E2RR000 |
| | 680 | 8*9 | 12 | 544 | 5100 | 8681LOM0809E2RR000 |
| | 820 | 6.3*9 | 15 | 656 | 4100 | 8821LOMAA09E2RR000 |
| | 820 | 8*9 | 12 | 656 | 5100 | 8821LOM0809E2RR000 |
| | 1000 | 6.3*12 | 15 | 800 | 4100 | 8102LOMAA12E2RR000 |
| | 1000 | 8*9 | 12 | 800 | 5100 | 8102LOM0809E2RR000 |
| | 1200 | 6.3*12 | 15 | 960 | 4500 | 8122LOMAA12E2RR000 |
| | 1200 | 8*9 | 12 | 960 | 5100 | 8122LOM0809E2RR000 |
| 6.3 | 220 | 5*7 | 18 | 500 | 2690 | 8221LAM0507E2RR000 |
| | 220 | 5*8 | 18 | 500 | 2690 | 8221LAM0508E2RR000 |
| | 270 | 5*8 | 18 | 500 | 2690 | 8271LAM0508E2RR000 |
| | 330 | 5*8 | 18 | 500 | 2690 | 8331LAM0508E2RR000 |
| | 330 | 6.3*8 | 15 | 500 | 3100 | 8331LAMAA08E2RR000 |
| | 390 | 5*9 | 16 | 500 | 3100 | 8391LAM0509E2RR000 |
| | 390 | 6.3*8 | 15 | 500 | 3100 | 8391LAMAA08E2RR000 |
| | 470 | 5*9 | 15 | 592 | 3300 | 8471LAM0509E2RR000 |
| | 470 | 6.3*8 | 15 | 592 | 4100 | 8471LAMAA08E2RR000 |
| | 560 | 5*11 | 15 | 706 | 3500 | 8561LAM0511E2RR000 |
| | 560 | 6.3*8 | 15 | 706 | 4100 | 8561LAMAA08E2RR000 |
| | 560 | 8*9 | 12 | 706 | 5100 | 8561LAM0809E2RR000 |
| | 680 | 5*12 | 15 | 857 | 4100 | 8681LAM0512E2RR000 |
| | 680 | 6.3*8 | 15 | 857 | 4100 | 8681LAMAA08E2RR000 |
| 680 | 8*9 | 12 | 857 | 5100 | 8681LAM0809E2RR000 | |

E2 Series

◆ 尺寸与个技术参数一览表 Standard Ratings

| Rated voltage (V) | Rated capacitance (μF) | Case size ΦD×L(mm) | ESR(mΩ) at 20℃, 100 KHz | Leakage Current (μA) | Rated ripple current (mA _{rms} /105℃/100kHz) | Catalog Part Number |
|-------------------|------------------------|--------------------|-------------------------|----------------------|---|---------------------|
| 6.3 | 820 | 6.3*9 | 15 | 1033 | 4500 | 8821LAMAA09E2RR000 |
| | 820 | 6.3*12 | 15 | 1033 | 4800 | 8821LAMAA12E2RR000 |
| | 820 | 8*9 | 12 | 1033 | 5100 | 8821LAM0809E2RR000 |
| | 1000 | 6.3*12 | 14 | 1260 | 4800 | 8102LAMAA12E2RR000 |
| | 1000 | 8*9 | 12 | 1260 | 5100 | 8102LAM0809E2RR000 |
| | 1000 | 8*12 | 12 | 1260 | 5500 | 8102LAM0812E2RR000 |
| | 1200 | 6.3*12 | 12 | 1512 | 4900 | 8122LAMAA12E2RR000 |
| | 1200 | 8*9 | 12 | 1512 | 5100 | 8122LAM0809E2RR000 |
| | 1200 | 8*12 | 12 | 1512 | 5500 | 8122LAM0812E2RR000 |
| | 1500 | 8*12 | 12 | 1890 | 5500 | 8152LAM0812E2RR000 |
| | 1500 | 10*12.5 | 12 | 1890 | 5900 | 8152LAM10ABE2RR000 |
| | 2200 | 10*12.5 | 12 | 2772 | 5900 | 8222LAM10ABE2RR000 |
| 7.5 | 270 | 5*8 | 18 | 500 | 2690 | 8271LKM0508E2RR000 |
| | 330 | 6.3*8 | 16 | 500 | 3100 | 8331LKMAA08E2RR000 |
| | 390 | 6.3*8 | 16 | 585 | 3500 | 8391LKMAA08E2RR000 |
| | 470 | 6.3*8 | 16 | 705 | 3500 | 8471LKMAA08E2RR000 |
| | 560 | 6.3*8 | 16 | 840 | 3500 | 8561LKMAA08E2RR000 |
| | 680 | 6.3*12 | 16 | 1020 | 3800 | 8681LKMAA12E2RR000 |
| | 680 | 8*9 | 12 | 1020 | 4800 | 8681LKM0809E2RR000 |
| | 820 | 6.3*12 | 16 | 1230 | 3800 | 8821MAA12LKE2RR000 |
| | 820 | 8*9 | 12 | 1230 | 4800 | 8821M0809LKE2RR010 |
| | 1000 | 8*9 | 12 | 1500 | 4800 | 8102LKM0809E2RR000 |
| | 1000 | 8*12 | 12 | 1500 | 5100 | 8102LKM0812E2RR000 |
| | 1200 | 8*12 | 12 | 1800 | 5100 | 8122LKM0812E2RR000 |
| | 1200 | 10*12.5 | 12 | 1800 | 5500 | 8122LKM10ABE2RR000 |
| | 1500 | 10*12.5 | 12 | 2250 | 5500 | 8152LKM10ABE2RR000 |
| 10 | 100 | 5*8 | 20 | 500 | 1800 | 8101LBM0508E2RR000 |
| | 150 | 5*8 | 20 | 500 | 1800 | 8151LBM0508E2RR000 |
| | 220 | 5*8 | 20 | 500 | 2200 | 8221LBM0508E2RR000 |
| | 220 | 6.3*8 | 16 | 500 | 2900 | 8221LBMAA08E2RR000 |
| | 270 | 6.3*8 | 16 | 540 | 2900 | 8271LBMAA08E2RR000 |
| | 330 | 5*8 | 20 | 660 | 2900 | 8331LBM0508E2RR000 |
| | 330 | 6.3*8 | 16 | 660 | 3100 | 8331LBMAA08E2RR000 |
| | 390 | 6.3*8 | 16 | 780 | 3100 | 8391LBMAA08E2RR000 |
| | 390 | 6.3*12 | 16 | 780 | 3500 | 8391LBMAA12E2RR000 |
| | 470 | 6.3*8 | 16 | 940 | 3100 | 8471LBMAA08E2RR000 |
| | 470 | 8*9 | 14 | 940 | 4800 | 8471LBM0809E2RR000 |
| | 560 | 6.3*9 | 16 | 1120 | 3500 | 8561LBMAA09E2RR000 |
| | 560 | 8*9 | 16 | 1120 | 4800 | 8561LBM0809E2RR000 |

E2 Series

◆ 尺寸与个技术参数一览表 Standard Ratings

| Rated voltage (V) | Rated capacitance (uF) | Case size ΦD×L(mm) | ESR(mΩ) at 20℃, 100 KHz | Leakage Current (μA) | Rated ripple current (mArms/105℃/100kHz) | Catalog Part Number |
|-------------------|------------------------|--------------------|-------------------------|----------------------|--|---------------------|
| 10 | 680 | 6.3*11 | 16 | 1360 | 3500 | 8681LBMAA11E2RR000 |
| | 680 | 8*9 | 14 | 1360 | 4800 | 8681LBM0809E2RR000 |
| | 820 | 8*9 | 14 | 1640 | 4800 | 8821LBM0809E2RR000 |
| | 820 | 8*12 | 14 | 1640 | 5100 | 8821LBM0812E2RR000 |
| | 1000 | 8*12 | 14 | 2000 | 5100 | 8102LBM0812E2RR000 |
| | 1000 | 10*12.5 | 14 | 2000 | 5500 | 8102LBM10ABE2RR000 |
| | 1500 | 8*12 | 14 | 3000 | 5300 | 8152LBM0812E2RR000 |
| | 1500 | 10*12.5 | 14 | 3000 | 5500 | 8152LBM10ABE2RR000 |
| 12 | 220 | 5*9 | 20 | 528 | 2690 | 8221LLM0509E2RR000 |
| | 220 | 6.3*8 | 18 | 528 | 3160 | 8221LLMAA08E2RR000 |
| | 330 | 5*9 | 20 | 792 | 2800 | 8331LLM0509E2RR000 |
| | 330 | 6.3*8 | 18 | 792 | 3200 | 8331LLMAA08E2RR000 |
| | 390 | 6.3*8 | 18 | 936 | 3200 | 8391LLMAA08E2RR000 |
| | 470 | 6.3*12 | 18 | 1128 | 3500 | 8471LLMAA12E2RR000 |
| | 470 | 8*9 | 15 | 1128 | 4100 | 8471LLM0809E2RR000 |
| | 560 | 6.3*12 | 18 | 1344 | 3500 | 8561LLMAA12E2RR000 |
| | 560 | 8*9 | 15 | 1344 | 4100 | 8561LLM0809E2RR000 |
| | 680 | 8*9 | 15 | 1632 | 4100 | 8681LLM0809E2RR000 |
| | 820 | 8*12 | 15 | 1968 | 4500 | 8821LLM0812E2RR000 |
| | 1000 | 8*12 | 15 | 2400 | 4500 | 8102LLM0812E2RR000 |
| | 1000 | 10*12.5 | 12 | 2400 | 5200 | 8102LLM10ABE2RR000 |
| | 1200 | 10*12.5 | 12 | 2880 | 5200 | 8122LLM10ABE2RR000 |
| | 1500 | 10*12.5 | 12 | 3600 | 5200 | 8152LLM10ABE2RR000 |
| | 16 | 68 | 5*7 | 25 | 500 | 2100 |
| 100 | | 5*8 | 25 | 500 | 2100 | 8101LCM0508E2RR000 |
| 100 | | 6.3*8 | 20 | 500 | 2100 | 8101LCMAA08E2RR000 |
| 150 | | 5*8 | 25 | 500 | 2100 | 8151LCM0508E2RR000 |
| 220 | | 5*9 | 22 | 704 | 2690 | 8221LCM0509E2RR000 |
| 220 | | 6.3*8 | 18 | 704 | 3100 | 8221LCMAA08E2RR000 |
| 220 | | 5*11 | 18 | 704 | 3100 | 8221LCM0511E2RR000 |
| 220 | | 8*9 | 15 | 704 | 4100 | 8221LCM0809E2RR000 |
| 270 | | 5*11 | 18 | 864 | 3100 | 8271LCM0511E2RR000 |
| 270 | | 6.3*8 | 15 | 864 | 4100 | 8271LCMAA08E2RR000 |
| 270 | | 8*9 | 15 | 864 | 4500 | 8271LCM0809E2RR000 |
| 330 | | 6.3*8 | 18 | 1056 | 3100 | 8331LCMAA08E2RR000 |
| 330 | | 6.3*12 | 18 | 1056 | 4100 | 8331LCMAA12E2RR000 |

◆ 尺寸与个技术参数一览表 Standard Ratings

| Rated voltage (V) | Rated capacitance (uF) | Case size ΦD×L(mm) | ESR(mΩ) at 20°C, 100 KHz | Leakage Current (μA) | Rated ripple current (mArms/105°C/100kHz) | Catalog Part Number |
|-------------------|------------------------|--------------------|--------------------------|----------------------|---|---------------------|
| 16 | 330 | 8*9 | 15 | 1056 | 4100 | 8331LCM0809E2RR000 |
| | 470 | 6.3*11 | 18 | 1504 | 3500 | 8471LCMAA11E2RR000 |
| | 470 | 8*9 | 15 | 1504 | 4100 | 8471LCM0809E2RR000 |
| | 470 | 8*12 | 15 | 1504 | 4200 | 8471LCM0812E2RR000 |
| | 470 | 10*12 | 14 | 1504 | 4200 | 8471LCM10ABE2RR000 |
| | 560 | 8*9 | 18 | 1792 | 3500 | 8561LCM0809E2RR000 |
| | 560 | 8*12 | 15 | 1792 | 4100 | 8561LCM0812E2RR000 |
| | 680 | 8*12 | 15 | 2176 | 4500 | 8681LCM0812E2RR000 |
| | 680 | 10*12 | 14 | 2176 | 4500 | 8681LCM10ABE2RR000 |
| | 820 | 8*12 | 15 | 2624 | 4500 | 8821LCM0812E2RR000 |
| | 820 | 10*12 | 14 | 2624 | 4800 | 8821LCM10ABE2RR000 |
| | 1000 | 8*12 | 15 | 3200 | 4800 | 8102LCM0812E2RR000 |
| | 1000 | 10*12.5 | 14 | 3200 | 5200 | 8102LCM10ABE2RR000 |
| | 1200 | 10*12.5 | 14 | 4800 | 5200 | 8122LCM10ABE2RR000 |
| 25 | 68 | 6.3*8 | 40 | 500 | 2100 | 8680LDMAA08E2RR000 |
| | 68 | 8*9 | 30 | 500 | 3500 | 8680LDMAA08E2RR000 |
| | 82 | 6.3*8 | 40 | 500 | 2150 | 8820LDMAA08E2RR000 |
| | 82 | 8*9 | 30 | 500 | 3800 | 8820LDM0809E2RR000 |
| | 100 | 6.3*8 | 40 | 500 | 2200 | 8101LDMAA08E2RR000 |
| | 100 | 5*9 | 40 | 500 | 2150 | 8101LDM0509E2RR000 |
| | 150 | 6.3*8 | 40 | 750 | 4200 | 8151LDMAA08E2RR000 |
| | 150 | 6.3*12 | 35 | 750 | 4300 | 8151LDMAA12E2RR000 |
| | 220 | 6.3*8 | 40 | 1100 | 3800 | 8221LDMAA08E2RR000 |
| | 220 | 6.3*12 | 35 | 1100 | 3800 | 8221LDMAA12E2RR000 |
| | 220 | 8*12 | 25 | 1100 | 4200 | 8221LDM0812E2RR000 |
| | 220 | 10*12 | 25 | 1100 | 4800 | 8221LDM10ABE2RR000 |
| | 330 | 6.3*12 | 35 | 1650 | 3800 | 8331LDMAA12E2RR000 |
| | 330 | 8*9 | 25 | 1650 | 4200 | 8331LDM0809E2RR000 |
| | 330 | 8*12 | 25 | 1650 | 4200 | 8331LDM0812E2RR000 |
| | 330 | 10*12 | 20 | 1650 | 4800 | 8331LDM10ABE2RR000 |
| | 390 | 6.3*12 | 35 | 1950 | 4200 | 8391LDMAA12E2RR000 |
| | 470 | 8*12 | 25 | 2350 | 4200 | 8471LDM0812E2RR000 |
| | 470 | 10*12 | 20 | 2350 | 4800 | 8471LDM10ABE2RR000 |
| | 680 | 8*12 | 25 | 3400 | 4200 | 8681LDM0812E2RR000 |
| | 680 | 10*12 | 20 | 3400 | 4800 | 8681LDM10ABE2RR000 |
| 820 | 10*12.5 | 20 | 4100 | 4800 | 8821LDM10ABE2RR000 | |
| 1000 | 10*12.5 | 20 | 5000 | 4800 | 8102LDM10ABE2RR000 | |

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