

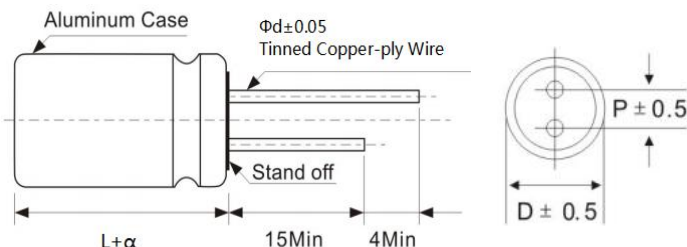
# E2 Series

- 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°C, 100 KHz	Leakage Current (μA)	Rated ripple current (mArms/105°C/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 <sub>rms</sub> /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	8680LCM0507E2RR000
	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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