

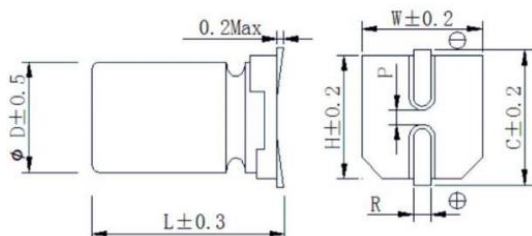
M2 Series

- Low ESR, High ripple, miniaturized 低阻抗, 耐高纹波电流, 小型化
- SMD type: lead free reflow soldering condition at 260℃ peak correspondence 贴片型号: 满足260℃无铅回流焊条件
- RoHS Compliant 符合Rosh

◆ 规格表 Specifications

项目Items	特性参数Characteristics			
使用温度范围 Category Temperture Range	-55 ~ +105℃			
额定工作电压范围 Rated Voltage Range	6.3 ~ 100V			
静电容量允许偏差 Capacitance tolerance	±20%(M) (at 20℃,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℃) Less than or equal to the specified value. After 2 minutes application of rated Voltage at 20℃	2.5~25V		35~100V
		I≤0.2CV 或500μA(取大值)		I≤0.1CV 或299μA(取大值)
损耗角正切值tanδ Dissipation Factor	Rated voltage (V)	2.5~6.3	10~100	(at 20℃,120Hz)
	tanδ (Max.)	0.08	0.12	
温度特性 Low Temperature Characteristics (Max.Impedance Ratio)	Z(-25℃)/Z(+20℃)	≤ 1.25		(100KHz)
	Z(-55℃)/Z(+20℃)	≤ 1.25		
耐久性 Endurance	105℃施加额定工作电压2000小时, 恢复到20℃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℃ after application of rated voltage for 2000 hours at 105℃.			
	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℃ 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℃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℃after application of rated voltage for 1000 hours at 60℃,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℃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℃ 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		
焊接耐热性 Resistance to soldering heat	按回流焊试验后, 应满足于以下要求 Measurement for solder temperature profile shall be made at the capacitor top and the terminal.			
	Capacitance change	≤±10% of the initial value		
	D.F.(tanδ)	≤ 130% of the specified value		
	ESR	≤ 130% of the specified value		
	Leakage current	≤ The specified value		

◆ 外形图Dimensions (mm)



ΦD	W	H	C	R	P
5	5.3	5.3	5.9	0.5~0.8	1.4
6.3	6.5	6.5	7.2	0.5~0.8	2.2
8	8.3	8.3	9.0	0.7~1.1	3.1
10	10.3	10.3	11.0	0.7~1.1	4.5

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◆ 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 (mA _{rms} /105℃/100kHz)	Catalog Part Number
6.3	220	5*7	35	500	3100	8221LAM0507M2RR00T
	220	6.3*9	35	500	3500	8221LAMAA09M2RR00T
	270	6.3*9	35	500	3500	8271LAMAA09M2RR00T
	330	5*7	35	500	3100	8331LAM0507M2RR00T
	330	6.3*9	35	500	3500	8331LAMAA09M2RR00T
	390	5*10	35	500	3500	8391LAM0510M2RR00T
	470	6.3*7	35	592	3800	8471LAMAA07M2RR00T
	560	6.3*8	35	706	3800	8561LAMAA08M2RR00T
	680	6.3*8	25	857	4300	8681LAMAA08M2RR00T
	820	6.3*9	25	1033	4800	8821LAMAA09M2RR00T
	1000	6.3*12	25	1260	4800	8102LAMAA12M2RR00T
	1000	8*12	25	1260	5100	8102LAM0812M2RR00T
	1200	8*12	25	1512	5100	8122LAM0812M2RR00T
	1500	8*12	25	1890	5100	8152LAM0812M2RR00T
	2200	10*12.6	25	2772	5500	8222LAM10ABM2RR00T
10	100	5*8	35	500	2350	8101LBM0508M2RR00T
	220	6.3*8	35	500	2900	8221LBMAA08M2RR00T
	270	6.3*9	35	540	2900	8271LBMAA09M2RR00T
	330	6.3*8	35	660	3600	8331LBMAA08M2RR00T
	470	6.3*8	35	940	3600	8471LBMAA08M2RR00T
	560	6.3*9	35	1120	3600	8561LBMAA09M2RR00T
	680	8*12.6	25	1360	4200	8681LBM0812M2RR00T
	820	8*12.6	25	1640	4500	8821LBM0812M2RR00T
	1000	8*12.6	25	2000	4500	8102LBM0812M2RR00T
	1000	10*12.6	25	2000	4500	8102LBM10ABM2RR00T
	1500	8*12.6	25	3000	4800	8152LBM0812M2RR00T
	1500	10*12.6	25	3000	4800	8152LBM10ABM2RR00T
16	100	6.3*8	40	500	2690	8101LCMAA08M2RR00T
	220	6.3*8	40	704	2690	8221LCMAA08M2RR00T

常规插件的固态电容是不适用于回流焊的，需需过回流焊工艺的即需要贴片的固态。

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◆ 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
16	220	8*8	40	704	2900	8221LCM0808M2RR00T
	270	6.3*8	40	864	2690	8271LCMAA08M2RR00T
	270	8*9	40	864	2900	8271LCM0809M2RR00T
	330	6.3*9	40	1056	2690	8331LCMAA09M2RR00T
	470	8*9	30	1504	3500	8471LCM0809M2RR00T
	470	6.3*12	30	1054	3500	8471LCMAA12M2RR00T
	470	8*12	30	1504	3500	8471LCM0812M2RR00T
	470	10*12	30	1504	4100	8471LCM10ABM2RR00T
	560	8*12	30	1792	3500	8561LCM0812M2RR00T
	680	8*12	30	2176	3900	8681LCM0812M2RR00T
	680	10*12	30	2176	4100	8681LCM10ABM2RR00T
	820	8*12	30	2624	3900	8821LCM0812M2RR00T
	820	10*12	30	2624	4100	8821LCM10ABM2RR00T
	1000	8*12	30	3200	3900	8102LCM0812M2RR00T
	1000	10*12.6	30	3200	4100	8102LCM10ABM2RR00T
	1500	10*12.6	30	4800	4500	8152LCM10ABM2RR00T
20	100	6.3*8	50	500	2100	8101LNMAA08M2RR00T
	220	6.3*8	50	880	2690	8221LNMAA08M2RR00T
	220	8*10	45	880	2900	8221LNM0810M2RR00T
	560	8*12	40	2240	3500	8561LNM0812M2RR00T
	560	10*12	40	2240	3500	8561LNM10ABM2RR00T
25	100	6.3*7	50	500	2100	8101LDMAA07M2RR00T
	150	6.3*8	50	750	2690	8101LDMAA07M2RR00T
	220	6.3*8	50	1100	2500	8151LDMAA08M2RR00T
	270	6.3*12	50	1350	2900	8271LDMAA12M2RR00T
	270	8*12	50	1350	3100	8271LDM0812M2RR00T
	330	8*10	45	1650	3500	8331LDM0810M2RR00T
	330	6.3*12	45	1650	3500	8331LDMAA12M2RR00T
	470	8*12	45	2350	3100	8471LDM0812M2RR00T
	470	10*12	45	2350	3500	8471LDM10ABM2RR00T
	560	8*12	45	2800	3500	8561LDM0812M2RR00T
	680	8*12	45	3400	3800	8681LDM0812M2RR00T
	820	10*12	40	4100	4100	8821LDM10ABM2RR00T
	1000	10*12	40	5000	4100	8102LDM10ABM2RR00T
35	47	6.3*7	80	299	1410	8470LEMAA07M2RR00T
	68	6.3*8	80	299	1410	8680LEMAA08M2RR00T
	100	6.3*8	80	350	1690	8101LEMAA08M2RR00T
	100	8*9	55	350	1900	8101LEM0809M2RR00T
	100	8*12	55	350	2690	8101LEM0812M2RR00T
	150	6.3*12	70	525	2350	8151LEMAA12M2RR00T
	220	8*12	55	770	3100	8221LEM0812M2RR00T
	330	10*12.6	50	1155	3500	8331LEM10ABM2RR00T
	470	10*12.6	50	1645	4100	8471LEM10ABM2RR00T

PS:Reflow soldering can only be used for SMD Conductive Polymer Aluminum Solid Electrolytic Capacitor. Radial Conductive Polymer Aluminum Solid Electrolytic Capacitor are not suitable for reflow soldering, but only for wave soldering.

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Rated voltage (V)	Rated capacitance (μ F)	Case size Φ D×L(mm)	ESR(m Ω) at 20℃, 100 KHz	Leakage Current (μ A)	Rated ripple current (mA _{rms} /105℃/100kHz)	Catalog Part Number
50	22	5*8	100	299	800	8220LFM0508M2RR00T
	22	6.3*8	100	299	850	8220LFMAA08M2RR00T
	33	8*9.8	60	299	1300	8330LFM0809M2RR00T
	47	8*12.6	60	299	1500	8470LFM0812M2RR00T
	68	8*10	60	340	1500	8680LFM0810M2RR00T
	100	8*12	60	500	1500	8101LFM0812M2RR00T
	100	10*12	55	500	2100	8101LFM10ABM2RR00T
	220	10*12	55	1100	2100	8221LFM10ABM2RR00T
63	10	6.3*9	110	299	750	8100LGM09M2RR00T
	22	8*10	60	299	1100	8220LGM0810M2RR00T
	33	8*10	60	299	1100	8330LGM0810M2RR00T
	33	8*12	60	299	1300	8330LGM0812M2RR00T
	47	8*10	60	299	1300	8470LGM0810M2RR00T
	47	8*12.6	60	299	1300	8470LGM0812M2RR00T
	56	8*10	60	353	1300	8560LGM0810M2RR00T
	82	10*12.6	55	517	1800	8820LGM10ABM2RR00T
	100	8*12	60	630	1800	8101LGM0812M2RR00T
	100	10*12	55	630	2100	8101LGM10ABM2RR00T
	220	10*12	55	1386	2690	8221LGM10ABM2RR00T
80	10	6.3*9	120	299	550	8100LHMAA09M2RR00T
	22	8*9.8	80	299	1100	8220LHM0809M2RR00T
	22	8*12.6	70	299	1300	8220LHM0812M2RR00T
	33	8*12.6	70	299	1300	8330LHM0812M2RR00T
	47	10*12.6	60	376	1800	8470LHM10ABM2RR00T
100	10	8*10	90	299	850	8100MAM0810M2RR00T
	15	8*12.6	70	299	1190	8150MAM0812M2RR00T
	22	8*12	60	299	1550	8220MAM0812M2RR00T
	33	10*12.6	60	330	1550	8330MAM10ABM2RR00T
	68	10*12.6	60	680	1780	8680MAM10ABM2RR00T