系 列 :LHM

产品特点

- 高温无铅回流焊产品
- 保证时间 ： 105℃ 3000~5000 小时
- 可满足耐振要求
- 符合 RoHS 标准

项目 Items	特性 Characteristics
工作温度范围 Operating Temperature Range	-40℃ ~ +105℃
额定电压范围 Rated Voltage Range	6.3V ~ 100V
标称电容量范围 Nominal Capacitance Range	22 ~1500μF
标称电容量允许偏差 Nominal Capacitance Tolerance	±20%（20℃，120Hz）
漏电流 Leakage Current	I≤0.01C_RUR or 3(μA)，取较大者（2 分钟） C_R：标称电容量（μF） U_R：额定电压（V） I≤0.01C_RUR or 3(μA) Whichever is greater(at 20℃,After 2 minutes) C_R: Nominal Capacitance (μF) U_R: Rated voltages (V)
损耗角正切（tgδ） Dissipation Factor (Max) 20℃, 120Hz	见下表
耐久性 Load Life	见下表
高温贮存 Shelf Life	+105℃贮存 1000 小时后，电容器应满足以上耐久性要求 After storage for 1000 hours at +105℃, the capacitors shall meet the requirement of load life above
低温特性 Low Temperature Stability 阻抗比 Impedance Ratio (120Hz)	见下表
耐焊接热 Resistance to Soldering Heat	见下表
AEC-Q200	符合 AEC-Q200

U_R (V)	6.3	10	16	25	35	50	63	80	100
tgδ	0.30	0.26	0.20	0.16	0.14	0.12	0.10	0.10	0.08

容量大于 1000uF 者，每增加 1000uF，其损耗角正切值增加 0.02

When nominal capacitance exceeds 1000uF, add 0.02 to the value above for each 1000uF increase

+105℃施加额定电压 5000 小时，(6.3*5.4 为 3000 小时)电容器应满足以下要求：
application of rated voltage t 105℃ 5000 hrs, (6.3*5.4：3000H) the capacitor shall meet the following requirement:

电容量变化率 Capacitance Change	±30%初始值以内 Within ±30% of the initial value
损耗角正切 Dissipation Factor	≤ 300%初始规定值 Not more than 300% of the initial specified value
漏电流 Leakage Current	≤ 初始规定值 Not more than the initial specified value

U_R (V)	6.3	10	16	25	35	50	63	80	100
Z(-25℃)/Z(+20℃)	3	3	2	2	2	2	2	2	2
Z(-40℃)/Z(+20℃)	4	4	3	3	3	3	3	3	3

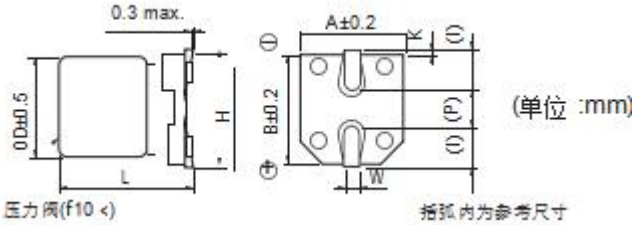
在 250℃的条件下，电容器在热板上保持 30 秒，然后从热板上取出电容器，让其在室温下恢复，电容器应满足以下要求：The capacitors shall be kept on the hot plate maintained at 250℃ for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the following requirement.

电容量变化率 Capacitance Change	±10%初始值以内 Within ±10% of the initial value
损耗角正切（tgδ） Dissipation Factor	≤初始规定值 Not more than the initial specified value
漏电流 Leakage Current	≤初始规定值 Not more than the initial specified value

标　示

例：10V.DC 220uF LHM系列

外观尺寸



ϕD	L	A, B	H.	I	W	P	K
4	5.4±0.3	4.3	5.5	1.8	0.5~0.8	1.0	0.35 + 0.15/0.20
5	5.4±0.3	5.3	6.5	2.1	0.5~0.8	1.3	
6.3	5.4±0.3	6.6	7.8	2.4	0.5~0.8	2.2	
6.3	7.7±0.3	6.6	7.8	2.4	0.5~0.8	2.2	
8	10.5±0.5	8.3	10	3.4	0.8~1.1	3.1	0.70±0.20
8	12.5±0.5	8.3	10	3.4	0.8~1.1	3.1	0.70±0.20
10	10.5±0.5	10.3	12	3.5	0.8~1.1	4.5	0.70±0.20
10	12.5±0.5	10.3	12	3.5	0.8~1.1	4.5	0.70±0.20
12.5	13.5±0.5	13.5	15	4.7	1.1~1.4	4.4	0.70±0.20
12.5	16.5±0.5	13.5	15	4.7	1.1~1.4	4.4	0.70±0.20
16	16.5±0.5	17	19	5.5	1.1~1.4	6.4	0.70±0.20
16	21.5±0.5	17	19	5.5	1.1~1.4	6.4	0.70±0.20
18	16.5±0.5	19	21	6.7	1.1~1.4	6.4	0.70±0.20
18	21.5±0.5	19	21	6.7	1.1~1.4	6.4	0.70±0.20

特性一览表 1

额定电压（V.DC）	静电容量（±20%）（uF）	产品尺寸(mm)		电气特性		料号	最小包装数量（PCS）
		ϕD	L	额定纹波电流（120HZ）（+105℃）	tan δ（120HZ）（+20℃）		
6.3	220	6.3	7.7	120	0.30	LHM0J221ME07700LP0	1000
	330	8	10.5	141	0.30	LHM0J331MF10500LP0	500
	470	10	10.5	320	0.30	LHM0J471MG10500LP0	500
	1000	10	10.5	410	0.30	LHM0J102MG10500LP0	500
10	220	8	10.5	141	0.26	LHM1A221MF10500LP0	500
	330	10	10.5	290	0.26	LHM1A331MG10500LP0	500
	470	10	10.5	320	0.26	LHM1A471MG10500LP0	500
16	47	6.3	5.4	55	0.20	LHM1C470ME05400LP0	1000
	100	6.3	5.4	70	0.20	LHM1C101ME05400LP0	1000
	100	6.3	7.7	81	0.20	LHM1C101ME07700LP0	1000
	220	8	10.5	141	0.20	LHM1C221MF10500LP0	500
	330	10	10.5	290	0.20	LHM1C331MG10500LP0	500
	470	8	10.5	141	0.20	LHM1C471MF10500LP0	500
	470	10	10.5	320	0.20	LHM1C471MG10500LP0	500
25	47	6.3	7.7	63	0.16	LHM1E470ME07700LP0	1000
	100	6.3	7.7	90	0.16	LHM1E101ME07700LP0	1000
	100	8	10.5	116	0.16	LHM1E101MF10500LP0	500
	220	10	10.5	290	0.16	LHM1E221MG10500LP0	500

特性一览表 2

额定电压（V.DC）	静电容量（±20%）（uF）	产品尺寸(mm)		电气特性		料号	最小包装数量（PCS）
		φD	L	额定纹波电流（120HZ）（+105℃）	tan δ（120HZ）（+20℃）		
25	330	10	10.5	320	0.16	LHM1E331MG10500LP0	500
35	33	6.3	7.7	57	0.14	LHM1V330ME07700LP0	1000
	47	8	10.5	92	0.14	LHM1V470MF10500LP0	500
	100	10	10.5	151	0.14	LHM1V101MG10500LP0	500
	220	10	10.5	320	0.14	LHM1V221MG10500LP0	500
	330	12.5	13.5	320	0.14	LHM1V331MI13500LP0	200
	470	12.5	16.5	410	0.14	LHM1V471MI16500LP0	150
	1000	16	16.5	690	0.14	LHM1V102MJ16500LP0	125
	1500	18	16.5	900	0.14	LHM1V152MK16500LP0	125
50	22	6.3	7.7	58	0.12	LHM1H220ME07700LP0	1000
	33	8	10.5	130	0.12	LHM1H330MF10500LP0	500
	47	6.3	7.7	70	0.12	LHM1H470ME07700LP0	1000
	47	8	10.5	141	0.12	LHM1H470MF10500LP0	500
	100	10	10.5	160	0.12	LHM1H101MG10500LP0	500
	220	12.5	13.5	280	0.14	LHM1H221MI13500LP0	200
	330	12.5	16.5	360	0.14	LHM1H331MI16500LP0	150
	470	16	16.5	510	0.14	LHM1H471MJ16500LP0	125
	1000	18	16.5	780	0.14	LHM1H102MK16500LP0	125
63	150	12.5	13.5	240	0.10	LHM1J151MI13500LP0	200
	220	12.5	16.5	320	0.10	LHM1J221MI16500LP0	150
	330	16	16.5	450	0.10	LHM1J331MJ16500LP0	125
	470	16	16.5	540	0.10	LHM1J471MJ16500LP0	125
80	100	12.5	13.5	220	0.10	LHM1K101MI13500LP0	200
	150	12.5	16.5	290	0.10	LHM1K151MI16500LP0	150
	220	16	16.5	410	0.10	LHM1K221MJ16500LP0	125
	330	16	16.5	510	0.10	LHM1K331MJ16500LP0	125
	470	18	16.5	650	0.10	LHM1K471MK16500LP0	125
100	68	12.5	13.5	180	0.08	LHM2A680MI13500LP0	200
	100	12.5	16.5	240	0.08	LHM2A101MI16500LP0	150
	150	16	16.5	340	0.08	LHM2A151MJ16500LP0	125
	220	16	16.5	410	0.08	LHM2A221MJ16500LP0	125
	330	18	16.5	540	0.08	LHM2A331MK16500LP0	125

■Frequency coefficient of ripple current

Frequency / Cap.(uF)	50Hz	120Hz	1KHz	10K~100KHz
Under 1000	0.70	1.00	1.30	1.40
1000<C≦1500	0.85	1.00	1.13	1.15