

## 系列：LHF

### 产品特点

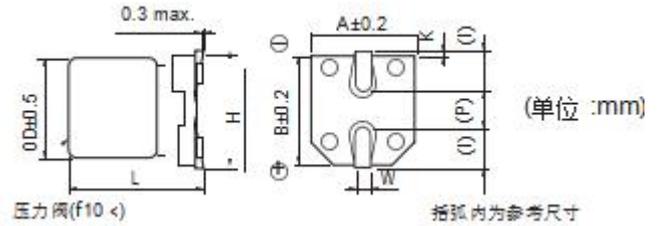
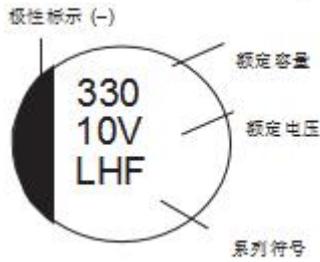
- 高温无铅回流焊产品
- 工作温度范围宽
- 适用于高密度表面组装
- 低阻抗、长寿命
- 符合 RoHS 标准

项目 Items	特性 Characteristics						
工作温度范围 Operating Temperature Range	-55℃ ~ +105℃						
额定电压范围 Rated Voltage Range	6.3V ~ 50V						
标称电容量范围 Nominal Capacitance Range	1 ~ 1500 μF						
标称电容量允许偏差 Nominal Capacitance Tolerance	±20% (20℃, 120Hz)						
漏电流 Leakage Current	$I \leq 0.01C_R U_R$ 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) $I \leq 0.01C_R U_R$ 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 (tg δ) Dissipation Factor (Max) 20℃, 120Hz	$U_R$ (V)	6.3	10	16	25	35	50
	tg δ	0.26	0.19	0.16	0.14	0.12	0.10
	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						
耐久性 Load Life	+105℃ 施加额定电压 5000 小时后, 电容器应满足以下要求: After applying the rated voltage at +105° C for 5000 hours, the capacitor should meet the following requirements:						
	电容量变化率 Capacitance Change	±35% 初始值以内 Within ±35% 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					
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)	$U_R$ (V)	6.3	10	16	25	35	50
	$Z(-25^\circ\text{C})/Z(+20^\circ\text{C})$	2	2	2	2	2	2
	$Z(-55^\circ\text{C})/Z(+20^\circ\text{C})$	4	4	4	3	3	3
耐焊接热 Resistance to Soldering Heat	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 (tg δ) 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					
AEC-Q200	符合 AEC-Q200						

标示

外观尺寸

例: 10V.DC 330uF LHF系列



$\phi$ D	L	A, B	H.	I	W	P	K
6.3	7.7 $\pm$ 0.3	6.6	7.8	2.4	0.5~0.8	2.2	0.35+0.15/-0.20
8	10.5 $\pm$ 0.5	8.3	10	3.4	0.8~1.1	3.1	0.70 $\pm$ 0.20
8	12.5 $\pm$ 0.5	8.3	10	3.4	0.8~1.1	3.1	0.70 $\pm$ 0.20
10	10.5 $\pm$ 0.5	10.3	12	3.5	0.8~1.1	4.5	0.70 $\pm$ 0.20
10	12.5 $\pm$ 0.5	10.3	12	3.5	0.8~1.1	4.5	0.70 $\pm$ 0.20
12.5	13.5 $\pm$ 0.5	13.5	15	4.7	1.1~1.4	4.4	0.70 $\pm$ 0.20
12.5	16.5 $\pm$ 0.5	13.5	15	4.7	1.1~1.4	4.4	0.70 $\pm$ 0.20

特性一览表 1

额定电压 (V. DC)	静电容量 ( $\pm$ 20%) ( $\mu$ F)	产品尺寸(mm)		电气特性			料号	最小包装数量 (PCS)
		$\phi$ D	L	额定纹波电流 (120Hz) (+125 $^{\circ}$ C)	$\tan \delta$ (120HZ) (+20 $^{\circ}$ C)	Impedance (100KHZ) (+20 $^{\circ}$ C)		
6.3	470	8	10.5	600	0.26	0.16	LHF0J471MF10500LP0	500
	1000	8	10.5	600	0.26	0.16	LHF0J102MF10500LP0	500
	1500	10	10.5	850	0.26	0.08	LHF0J152MG10500LP0	500
10	330	8	10.5	600	0.19	0.16	LHF1A331MF10500LP0	500
	470	8	10.5	600	0.19	0.16	LHF1A471MF10500LP0	500
	680	8	10.5	600	0.19	0.16	LHF1A681MF10500LP0	500
	1000	10	10.5	850	0.19	0.08	LHF1A102MG10500LP0	500
16	330	8	10.5	600	0.16	0.16	LHF1C331MF10500LP0	500
	470	8	10.5	600	0.16	0.16	LHF1C471MF10500LP0	500
	680	10	10.5	850	0.16	0.08	LHF1C681MG10500LP0	500
25	220	8	10.5	600	0.14	0.16	LHF1E221MF10500LP0	500
	330	8	10.5	600	0.14	0.16	LHF1E331MF10500LP0	500
	470	10	10.5	850	0.14	0.08	LHF1E471MG10500LP0	500
	820	10	10.5	850	0.14	0.08	LHF1E821MG10500LP0	500
35	100	8	10.5	600	0.12	0.16	LHF1V101MF10500LP0	500
	220	8	10.5	600	0.12	0.16	LHF1V221MF10500LP0	500
	330	10	10.5	850	0.12	0.08	LHF1V331MG10500LP0	500
50	100	6.3	7.7	350	0.10	0.40	LHF1H101ME0770LP0	1000
	220	10	10.5	670	0.10	0.18	LHF1H221MG10500LP0	500

Frequency coefficient of ripple current

Frequency	120Hz	1KHz	10KHz	100KHz
Cap. ( $\mu$ F)				
100	0.40	0.75	0.90	1.00
220~560	0.50	0.85	0.94	1.00
680~1500	0.60	0.87	0.92	1.00