

## 系列：LHI

### 产品特点

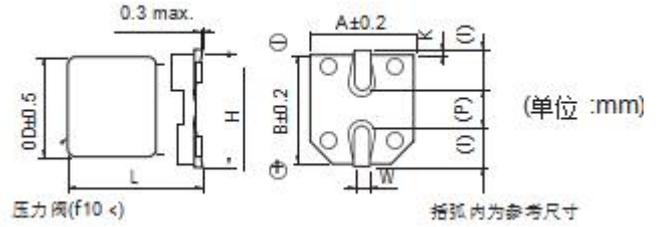
- 高温无铅回流焊产品
- 保证时间：85℃ 2000 小时
- 制品高度 4.5mm 之小型贴片型电容
- 适用于表面黏着之高密度 PCB 设计
- 符合 RoHS 标准

项目 Items	特性 Characteristics									
工作温度范围 Operating Temperature Range	-40℃ ~ +85℃									
额定电压范围 Rated Voltage Range	4V ~ 100V									
标称电容量范围 Nominal Capacitance Range	0.47 ~ 220 μF									
标称电容量允许偏差 Nominal Capacitance Tolerance	±20% (20℃, 120Hz)									
漏电流 Leakage Current	$I \leq 0.01 C_R U_R$ or $3(\mu A)$ , 取较大者 (2 分钟) $C_R$ : 标称电容量 (μF) $U_R$ : 额定电压 (V) $I \leq 0.01 C_R U_R$ or $3(\mu A)$ 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)	4	6.3	10	16	25	35	50	63	100
	tg δ	0.50	0.30	0.24	0.20	0.16	0.14	0.14	0.14	0.12
耐久性 Load Life	+85℃施加额定电压 2000 小时后, 电容器应满足以下要求: After 2000 hours application of rated voltage at 85℃, the capacitor shall meet the following requirement:									
	规定时间 Specified time	Φ D=4*4.5~6.3*4.5      2000 小时      2000Hrs for Φ D=4*4.5~6.3*4.5								
	电容量变化率 Capacitance Change	4~6.3V: ±30%初始值以内) (4~6.3: within ±30% of the initial value) (10~50V: ±25%初始值以内) (10~50: within ±25% 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	+85℃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)	4	6.3	10	16	25	35	50	63	100
	Z(-25℃)/Z(+20℃)	7	4	3	2	2	2	2	2	2
	Z(-40℃)/Z(+20℃)	15	8	5	4	3	3	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 220uF LHI系列



φD	L	A, B	H.	I	W	P	K
4	4.5±0.3	4.3	5.5	1.8	0.5~0.8	1.0	0.35 + 0.15 - 0.20
5	4.5±0.3	5.3	6.5	2.1	0.5~0.8	1.5	
6.3	4.5±0.3	6.6	7.8	2.4	0.5~0.8	2.0	

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) (+85℃)	tan δ (120HZ) (+20℃)		
4	33	4	4.5	28	0.50	LHI0G330MB04500LP0	2000
	47	4	4.5	33	0.50	LHI0G470MB04500LP0	2000
	100	5	4.5	56	0.50	LHI0G101MC04500LP0	1000
	220	6.3	4.5	65	0.50	LHI0G221MC04500LP0	1000
6.3	22	4	4.5	23	0.30	LHI0J220MB04500LP0	2000
	33	5	4.5	37	0.30	LHI0J330MC04500LP0	1000
	47	5	4.5	45	0.30	LHI0J470MC04500LP0	1000
	100	6.3	4.5	70	0.30	LHI0J101ME04500LP0	1000
	220	6.3	4.5	80	0.30	LHI0J221ME04500LP0	1000
10	22	5	4.5	33	0.24	LHI1A220MC04500LP0	1000
	33	5	4.5	41	0.24	LHI1A330MC04500LP0	1000
	47	6.3	4.5	50	0.24	LHI1A470ME04500LP0	1000
	100	6.3	4.5	70	0.24	LHI1A101ME04500LP0	1000
	220	6.3	4.5	85	0.24	LHI1A221ME04500LP0	1000
16	10	4	4.5	23	0.19	LHI1C100MB04500LP0	2000
	22	5	4.5	37	0.19	LHI1C220MC04500LP0	1000
	33	6.3	4.5	49	0.19	LHI1C330ME04500LP0	1000
	47	6.3	4.5	58	0.19	LHI1C470ME04500LP0	1000
	100	6.3	4.5	65	0.19	LHI1C101ME04500LP0	1000
25	4.7	4	4.5	16	0.16	LHI1E4R7MB04500LP0	2000
	10	5	4.5	27	0.16	LHI1E100MC04500LP0	1000
	22	6.3	4.5	42	0.16	LHI1E220ME04500LP0	1000
	33	6.3	4.5	52	0.16	LHI1E330ME04500LP0	1000
	47	6.3	4.5	55	0.16	LHI1E470ME04500LP0	1000
35	4.7	4	4.5	18	0.14	LHI1V4R7MB04500LP0	2000
	10	5	4.5	29	0.14	LHI1V100MC04500LP0	1000
	22	6.3	4.5	46	0.14	LHI1V220ME04500LP0	1000
	33	6.3	4.5	50	0.14	LHI1V330ME04500LP0	1000
	47	6.3	4.5	58	0.14	LHI1V470ME04500LP0	1000

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)
		φ D	L	额定纹波电流 (120HZ) (+85℃)	tan δ (120HZ) (+20℃)		
50	0.47	4	4.5	4.0	0.14	LHI1HR47MB04500LP0	2000
	1.0	4	4.5	8.4	0.14	LHI1H1R0MB04500LP0	2000
	2.2	4	4.5	13	0.14	LHI1H2R2MB04500LP0	2000
	3.3	4	4.5	17	0.14	LHI1H3R3MB04500LP0	2000
	4.7	5	4.5	20	0.14	LHI1H4R7MC04500LP0	1000
	10	6.3	4.5	33	0.14	LHI1H100ME04500LP0	1000
63	4.7	5	4.5	20	0.14	LHI1J4R7MB04500LP0	1000
100	4.7	6.3	4.5	20	0.12	LHI2A4R7ME04500LP0	1000

■ Frequency coefficient of ripple current

Frequency 频率	50Hz	120Hz	300Hz	1KHZ	10KHz~
Coefficient 系数	0.70	1.00	1.17	1.36	1.50