

系列：LHH

产品特点

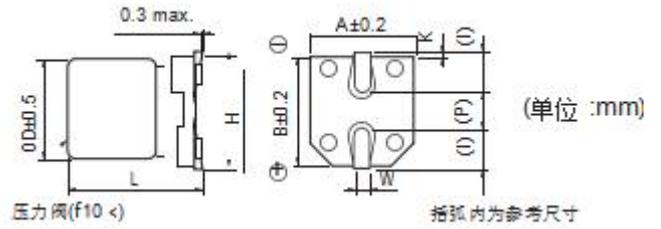
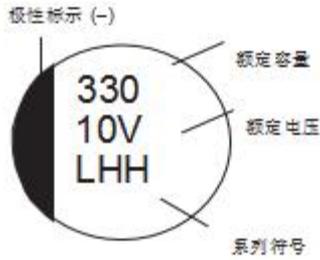
- 高温无铅回流焊产品
- 工作温度范围宽
- 适用于高密度表面组装
- 低阻抗、长寿命
- 符合 RoHS 标准

| 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 | 27 ~ 680 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 (tgδ) Dissipation Factor (Max) 20℃, 120Hz | U_R (V) | 6.3 | 10 | 16 | 25 | 35 | 50 |
| | tgδ | 0.32 | 0.30 | 0.23 | 0.18 | 0.16 | 0.14 |
| | 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 7000~10000 小时后, 电容器应满足以下要求: ΦD=6.3*7.7 为 7000 小时 ΦD ≥ 8mm 以上为 10000 小时 ΦD=6.3*7.7: 7000H ΦD ≥ 8mm or more is 10000H After applying the rated voltage at +105℃ for 7000~10000 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 |
| | $Z(-25℃)/Z(+20℃)$ | 2 | 2 | 2 | 2 | 2 | 2 |
| | $Z(-55℃)/Z(+20℃)$ | 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 (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 | | | | | |
| AEC-Q200 | 符合 AEC-Q200 | | | | | | |

标 示

外观尺寸

例：10V.DC 330uF LHH系列



| ϕD | L | A, B | H. | l | W | P | K |
|----------|----------|------|-----|-----|---------|-----|-----------|
| 6.3 | 7.7±0.3 | 6.6 | 7.8 | 2.4 | 0.5~0.8 | 2.2 | 0.35+0.15 |
| 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 |

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) (+125℃) | $\tan \delta$ (120HZ) (+20℃) | Impedance (100KHZ) (+20℃) | | |
| 6.3 | 100 | 6.3 | 7.7 | 300 | 0.32 | 0.45 | LHH0J101ME07700LP0 | 1000 |
| | 330 | 8 | 10.5 | 600 | 0.32 | 0.20 | LHH0J331MF10500LP0 | 500 |
| | 470 | 8 | 10.5 | 600 | 0.32 | 0.20 | LHH0J471MF10500LP0 | 500 |
| | 560 | 8 | 10.5 | 600 | 0.32 | 0.20 | LHH0J561MF10500LP0 | 500 |
| | 680 | 10 | 10.5 | 850 | 0.32 | 0.15 | LHH0J681MG10500LP0 | 500 |
| 10 | 100 | 6.3 | 7.7 | 300 | 0.30 | 0.45 | LHH1A101ME07700LP0 | 1000 |
| | 330 | 8 | 10.5 | 600 | 0.30 | 0.20 | LHH1A331MF10500LP0 | 500 |
| | 470 | 8 | 10.5 | 600 | 0.30 | 0.20 | LHH1A471MF10500LP0 | 500 |
| | 560 | 8 | 10.5 | 600 | 0.30 | 0.20 | LHH1A561MF10500LP0 | 500 |
| | 680 | 10 | 10.5 | 850 | 0.30 | 0.15 | LHH1A681MG10500LP0 | 500 |
| 16 | 47 | 6.3 | 7.7 | 300 | 0.23 | 0.45 | LHH1C470ME07700LP0 | 1000 |
| | 100 | 6.3 | 7.7 | 300 | 0.23 | 0.45 | LHH1C101ME07700LP0 | 1000 |
| | 220 | 8 | 10.5 | 600 | 0.23 | 0.20 | LHH1C221MF10500LP0 | 500 |
| | 330 | 8 | 10.5 | 600 | 0.23 | 0.20 | LHH1C331MF10500LP0 | 500 |
| | 390 | 8 | 10.5 | 600 | 0.23 | 0.20 | LHH1C391MF10500LP0 | 500 |
| | 470 | 10 | 10.5 | 850 | 0.23 | 0.15 | LHH1C471MG10500LP0 | 500 |
| | 680 | 10 | 10.5 | 850 | 0.23 | 0.15 | LHH1C681MG10500LP0 | 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) |
|----------------|------------------------|----------|------|------------------------------|----------------------------|---------------------------------|--------------------|-----------------|
| | | φ D | L | 额定纹波电流 (120Hz) (+125℃) | tan δ (120HZ) (+20℃) | Impedance (100KHZ) (+20℃) | | |
| 25 | 33 | 6.3 | 7.7 | 300 | 0.18 | 0.45 | LHH1E330ME07700LP0 | 1000 |
| | 47 | 6.3 | 7.7 | 300 | 0.18 | 0.45 | LHH1E470ME07700LP0 | 1000 |
| | 100 | 6.3 | 7.7 | 300 | 0.18 | 0.45 | LHH1E101ME07700LP0 | 1000 |
| | 220 | 8 | 10.5 | 600 | 0.18 | 0.20 | LHH1E221MF10500LP0 | 500 |
| | 330 | 8 | 10.5 | 600 | 0.18 | 0.20 | LHH1E331MF10500LP0 | 500 |
| | 330 | 10 | 10.5 | 850 | 0.18 | 0.15 | LHH1E331MG10500LP0 | 500 |
| | 470 | 10 | 10.5 | 850 | 0.18 | 0.15 | LHH1E471MG10500LP0 | 500 |
| 35 | 10 | 6.3 | 7.7 | 300 | 0.16 | 0.45 | LHH1V100ME07700LP0 | 1000 |
| | 22 | 6.3 | 7.7 | 300 | 0.16 | 0.45 | LHH1V220ME07700LP0 | 1000 |
| | 33 | 6.3 | 7.7 | 300 | 0.16 | 0.45 | LHH1V330ME07700LP0 | 1000 |
| | 47 | 6.3 | 7.7 | 300 | 0.16 | 0.45 | LHH1V470ME07700LP0 | 1000 |
| | 100 | 8 | 10.5 | 600 | 0.16 | 0.20 | LHH1V101MF10500LP0 | 500 |
| | 220 | 8 | 10.5 | 600 | 0.16 | 0.20 | LHH1V221MF10500LP0 | 500 |
| | 220 | 10 | 10.5 | 850 | 0.16 | 0.15 | LHH1V221MG10500LP0 | 500 |
| | 330 | 10 | 10.5 | 850 | 0.16 | 0.15 | LHH1V331MG10500LP0 | 500 |
| | 390 | 10 | 10.5 | 850 | 0.16 | 0.15 | LHH1V391MG10500LP0 | 500 |
| 50 | 47 | 8 | 10.5 | 350 | 0.14 | 0.75 | LHH1H470MF10500LP0 | 500 |
| | 100 | 10 | 10.5 | 670 | 0.14 | 0.50 | LHH1H101MG10500LP0 | 500 |

■ Frequency coefficient of ripple current

| Frequency | 120Hz | 1KHz | 10KHz | 100KHz~ |
|-------------|-------|------|-------|---------|
| Coefficient | 0.65 | 0.85 | 0.95 | 1.00 |