# 系 列： LHT

## 产品特点

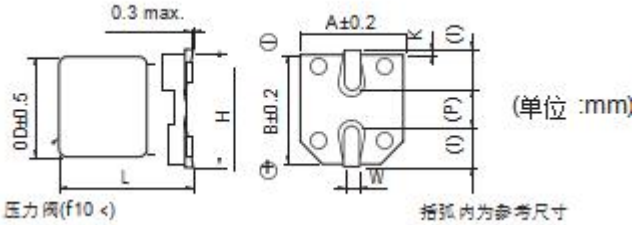
- 高温无铅回流焊产品
- 保证时间 ： 105 ℃ 2000 小时
- 可满足耐振要求
- 符合 RoHS 标准

| 项目 Items | 特性 Characteristics |
|---|---|
| 工作温度范围<br>Operating Temperature Range | -40℃ ~ +105℃ |
| 额定电压范围<br>Rated Voltage Range | 6.3V ~ 63V |
| 标称电容量范围<br>Nominal Capacitance Range | 10 ~ 2200μF |
| 标称电容量允许偏差<br>Nominal Capacitance Tolerance | ±20%（20℃，120Hz） |
| 漏电流<br>Leakage Current | I≤0.01$C_R$UR 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）<br>I≤0.01$C_R$UR or 3(μA) Whichever is greater(at 20℃,After 2 minutes)<br>$C_R$: Nominal Capacitance (μF) $U_R$: Rated voltages (V) |
| 损耗角正切（tgδ）<br>Dissipation Factor (Max)<br>20℃, 120Hz | $U_R$ (V) 6.3 10 16 25 35 50 63<br>tgδ 0.28 0.24 0.20 0.16 0.14 0.12 0.12<br>容量大于 1000uF 者，每增加 1000uF，其损耗角正切值增加 0.02<br>When nominal capacitance exceeds 1000uF, add 0.02 to the value above for each 1000uF increase |
| 耐久性<br>Load Life | +105℃施加额定电压 2000 小时后，电容器应满足以下要求：<br>After applying the rated voltage at +105° C for 2000 hours, Capacitors should meet the following requirements:<br>电容量变化率 Capacitance Change：±30%初始值以内 Within ±30% of the initial value<br>损耗角正切 Dissipation Factor：≤ 300%初始规定值 Not more than 300% of the initial specified value<br>漏电流 Leakage Current：≤ 初始规定值 Not more than the initial specified value |
| 高温贮存<br>Shelf Life | +105℃贮存 1000 小时后，电容器应满足以上耐久性要求<br>After storage for 1000 hours at +105℃, the capacitors shall meet the requirement of load life above |
| 低温特性<br>Low Temperature Stability<br>阻抗比<br>Impedance Ratio (120Hz) | $U_R$ (V) 6.3 10 16 25 35 50 63<br>Z(-25℃)/Z(+20℃) 4 3 2 2 2 2 2<br>Z(-40℃)/Z(+20℃) 8 5 4 3 3 3 3 |
| 耐焊接热<br>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.<br>电容量变化率 Capacitance Change：±10%初始值以内 Within ±10% of the initial value<br>损耗角正切（tgδ） Dissipation Factor：≤初始规定值 Not more than the initial specified value<br>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

**例：10V.DC 220uF LHT系列**


## 外 观 尺 寸




| ∮D | L | A, B | H. | I | W | P | K |
|---|---|---|---|---|---|---|---|
| 4 | 5.8±0.3 | 4.3 | 5.5 | 1.8 | 0.5~0.8 | 1.0 | 0.35 + 0.15/0.20 |
| 5 | 5.8±0.3 | 5.3 | 6.5 | 2.1 | 0.5~0.8 | 1.3 | |
| 6.3 | 5.8±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 |

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） |
|---|---|---|---|---|---|---|---|
| | | ∮D | L | 额定纹波电流（120HZ）（+105℃） | tanδ（120HZ）（+20℃） | | |
| 6.3 | 100 | 4 | 5.8 | 55 | 0.28 | LHT0J101MB05800LP0 | 2000 |
| | 220 | 5 | 5.8 | 90 | 0.28 | LHT0J221MC05800LP0 | 1000 |
| | 330 | 6.3 | 5.8 | 130 | 0.28 | LHT0J331ME05800LP0 | 1000 |
| | 470 | 6.3 | 7.7 | 200 | 0.28 | LHT0J471ME07700LP0 | 1000 |
| | 680 | 6.3 | 7.7 | 200 | 0.28 | LHT0J681ME07700LP0 | 1000 |
| | 1500 | 8 | 10.5 | 380 | 0.28 | LHT0J152MF10500LP0 | 500 |
| | 2200 | 10 | 10.5 | 520 | 0.30 | LHT0J222MG10500LP0 | 500 |
| 10 | 68 | 4 | 5.8 | 45 | 0.24 | LHT1A680MB05800LP0 | 2000 |
| | 100 | 4 | 5.8 | 50 | 0.24 | LHT1A101MB05800LP0 | 2000 |
| | 150 | 5 | 5.8 | 75 | 0.24 | LHT1A151MC05800LP0 | 1000 |
| | 220 | 5 | 5.8 | 80 | 0.24 | LHT1A221MC05800LP0 | 1000 |
| | 330 | 6.3 | 5.8 | 105 | 0.24 | LHT1A331ME05800LP0 | 1000 |
| | 470 | 6.3 | 5.8 | 130 | 0.24 | LHT1A471ME05800LP0 | 1000 |
| | 1000 | 8 | 10.5 | 340 | 0.24 | LHT1A102MF10500LP0 | 500 |
| | 1500 | 10 | 10.5 | 465 | 0.24 | LHT1A152MG10500LP0 | 500 |
| 16 | 47 | 4 | 5.8 | 40 | 0.20 | LHT1C470MB05800LP0 | 2000 |
| | 100 | 5 | 5.8 | 70 | 0.20 | LHT1C101NC05800LP0 | 1000 |
| | 150 | 6.3 | 5.8 | 95 | 0.20 | LHT1C151ME05800LP0 | 1000 |
| | 220 | 6.3 | 5.8 | 120 | 0.20 | LHT1C221ME05800LP0 | 1000 |
| | 330 | 6.3 | 7.7 | 165 | 0.20 | LHT1C331ME07700LP0 | 1000 |
| | 470 | 6.3 | 7.7 | 180 | 0.20 | LHT1C471ME07700LP0 | 1000 |
| | 680 | 8 | 10.5 | 295 | 0.20 | LHT1C681MF10500LP0 | 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℃） | tanδ（120HZ）（+20℃） | | |
| 16 | 1000 | 8 | 10.5 | 350 | 0.20 | LHT1C102MF10500LP0 | 500 |
| | 1200 | 10 | 10.5 | 400 | 0.20 | LHT1C122MG10500LP0 | 500 |
| 25 | 22 | 4 | 5.8 | 30 | 0.16 | LHT1E220MB05800LP0 | 2000 |
| | 33 | 4 | 5.8 | 35 | 0.16 | LHT1E330MB05800LP0 | 2000 |
| | 47 | 4 | 5.8 | 45 | 0.16 | LHT1E470MB05800LP0 | 2000 |
| | 68 | 5 | 5.8 | 60 | 0.16 | LHT1E680MC05800LP0 | 1000 |
| | 100 | 5 | 5.8 | 65 | 0.16 | LHT1E101MC05800LP0 | 1000 |
| | 150 | 6.3 | 7.7 | 105 | 0.16 | LHT1E151ME07700LP0 | 1000 |
| | 220 | 6.3 | 7.7 | 140 | 0.16 | LHT1E221ME07700LP0 | 1000 |
| | 470 | 8 | 10.5 | 290 | 0.16 | LHT1E471MF10500LP0 | 500 |
| | 820 | 10 | 10.5 | 435 | 0.16 | LHT1E821MG10500LP0 | 500 |
| | 1000 | 10 | 12.5 | 480 | 0.16 | LHT1E102MG12500LP0 | 400 |
| 35 | 22 | 4 | 5.8 | 35 | 0.14 | LHT1V220MB05800LP0 | 2000 |
| | 33 | 5 | 5.8 | 45 | 0.14 | LHT1V330MC05800LP0 | 1000 |
| | 47 | 5 | 5.8 | 55 | 0.14 | LHT1V470MC05800LP0 | 1000 |
| | 68 | 6.3 | 5.8 | 75 | 0.14 | LHT1V680ME05800LP0 | 1000 |
| | 100 | 6.3 | 5.8 | 95 | 0.14 | LHT1V101ME05800LP0 | 1000 |
| | 150 | 6.3 | 7.7 | 130 | 0.14 | LHT1V151ME07700LP0 | 1000 |
| | 220 | 6.3 | 7.7 | 145 | 0.14 | LHT1V221ME07700LP0 | 1000 |
| | 330 | 8 | 10.5 | 250 | 0.14 | LHT1V331MF10500LP0 | 500 |
| | 390 | 8 | 10.5 | 285 | 0.14 | LHT1V391MF10500LP0 | 500 |
| | 470 | 8 | 10.5 | 320 | 0.14 | LHT1V471MF10500LP0 | 500 |
| | 560 | 10 | 10.5 | 395 | 0.14 | LHT1V561MG10500LP0 | 500 |
| | 680 | 10 | 10.5 | 435 | 0.14 | LHT1V681MG10500LP0 | 500 |
| 50 | 10 | 4 | 5.8 | 25 | 0.12 | LHT1H100MB05800LP0 | 2000 |
| | 22 | 5 | 5.8 | 45 | 0.12 | LHT1H220MC05800LP0 | 1000 |
| | 47 | 6.3 | 5.8 | 75 | 0.12 | LHT1H470ME05800LP0 | 1000 |
| | 100 | 6.3 | 7.7 | 120 | 0.12 | LHT1H101ME07700LP0 | 1000 |
| | 220 | 8 | 10.5 | 225 | 0.12 | LHT1H221MF10500LP0 | 500 |
| | 330 | 10 | 10.5 | 300 | 0.12 | LHT1H331MG10500LP0 | 500 |
| 63 | 22 | 6.3 | 5.8 | 50 | 0.12 | LHT1J220ME05800LP0 | 1000 |

■Frequency coefficient of ripple current

| Frequency | 50Hz | 120Hz | 300HZ | 1KHz | ≥ 10KHz |
|---|---|---|---|---|---|
| Coeffcient | 0.80 | 1.00 | 1.15 | 1.36 | 1.50 |