

LT 系列
SERIES

105°C低阻抗, 高纹波特殊品
寿命: 105°C 1000~3000 小时

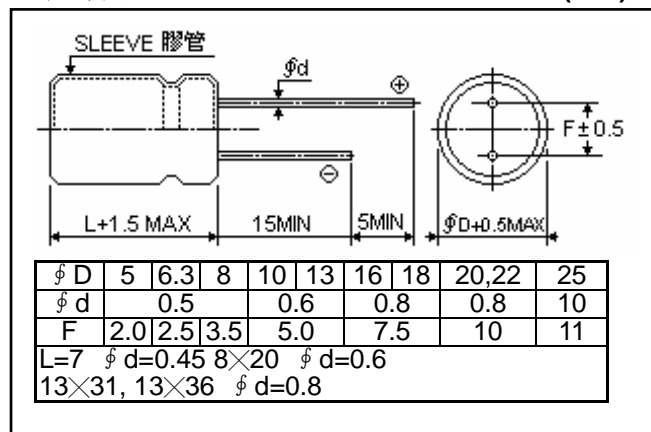
105°CLOW IMP. HIGH RIPPLE CURRENT SPECIAL SERIES
LOAD LIFE :105°C 1000~3000 hours

规格表 SPECIFICATIONS

| 项目 Items | 特性 Characteristics | | | | | | | | | |
|--|---|--|------|------|------|---|------|------|------|------------|
| 使用温度范围 Category Temperature Range | -40~+105°C | | | | | | | | | |
| 额定电压范围 Rated Voltage Range | 6.3~100V.DC | | | | | | | | | |
| 静电容量容许差 Capacitance Tolerance | ±20%(M)(25°C, 120Hz) | | | | | | | | | |
| 泄漏电流 Leakage Current (MAX) | I ≤ 0.01CV 或 3 μA (值小于 3 μA 时使用) (施加额定电压 3 分钟后) | | | | | I ≤ 0.01CV or 3 μA whichever is greater (After 3 minutes application of rated voltage) | | | | |
| | I: 泄漏电流 Leakage Current(μA) C: 额定静电容量 Rated Capacitance(μF) V: 额定电压 Rated Voltage(V) | | | | | | | | | |
| 散逸因素(tan δ) Dissipation Factor (MAX) | 额定电压(V) Rated Voltage | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 25°C 120Hz |
| | tan δ | 0.22 | 0.19 | 0.16 | 0.14 | 0.12 | 0.10 | 0.08 | 0.08 | |
| 当静电容量超过 1000 μF 时, 每增加 1000 μF 单位需加 0.02 的值与上述的值。 When rated capacitance is over 1000 μF, tan δ shall be added 0.02 to the listed value with increase of every 1000 μF. | | | | | | | | | | |
| 高温负荷 Load Life | 105°C恒温施加额定电压(含纹波电流)如下列寿命时间后, 必须满足下列的值。 After life test with rated ripple current at conditions stated in the table below, the capacitors shall meet the following requirements. | | | | | | | | | |
| | 静电容量变化率 Capacitance Change | 初期值±25%以内 Within ±25% of the initial value | | | | | | | | |
| | 散逸因素(tan δ) Dissipation Factor | 规格值 200%以下 Not more than 200% of the specified value | | | | | | | | |
| | 泄漏电流 Leakage Current | 规格值以下 Not more than the specified value | | | | | | | | |
| 高温放置 Shelf Life | 105°C恒温不施加额定电压 1000 小时后, 在试验前必须参照 JIS C5102 4.4 规定进行充电 60 秒之后, 必须满足下列的值。 After applying no rated voltage for 1000hrs at 105°C, pre-treatment for measurements shall be conducted after application of DC rated voltage for 60 second. The capacitors shall meet the following requirements. (Reference Standard JIS C5102 4.4) | | | | | | | | | |
| | 静电容量变化率 Capacitance Change | 初期值±20%以内 Within ±20% of the initial value | | | | | | | | |
| | 散逸因素(tan δ) Dissipation Factor | 规格值 200%以下 Not more than 200% of the specified value | | | | | | | | |
| | 泄漏电流 Leakage Current | 规格值 200%以下 Not more than 200% of the specified value | | | | | | | | |
| 突波电压(V) Surge Voltage | 额定电压(V) Rated Voltage | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | |
| | 突波电压(V) Surge Voltage | 8 | 13 | 20 | 32 | 44 | 63 | 79 | 125 | |
| 低温特性 Low Temperature Stability (合成阻抗比) Impedance Ratio (MAX) | 额定电压(V) Rated Voltage | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 120Hz |
| | Z(-25°C) / Z(25°C) | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | Z(-40°C) / Z(25°C) | 6 | 6 | 4 | 4 | 3 | 3 | 3 | 3 | |
| Reference Standard | JIS C5141 | | | | | | | | | |

尺寸图 DIMENSIONS

(mm)



纹波电流补偿系数 MULTIPLIER FOR RIPPLE CURRENT

(1) 频率系数 Frequency coefficient

| 系数 Coefficient | 频率(Hz) Frequency | 120 | 1k | 10k | 100k |
|-------------------|---------------------|------|------|------|------|
| | 4.7~33 μF | 0.40 | 0.60 | 0.80 | 1.00 |
| 39~330 μF | 0.50 | 0.70 | 0.90 | 1.00 | |
| 470~1000 μF | 0.60 | 0.80 | 0.93 | 1.00 | |
| 1200~6800 μF | 0.70 | 0.85 | 0.96 | 1.00 | |

■ 尺寸一览表, 额定纹波电流一览表 STANDARD SIZE, RATED RIPPLE CURRENT

Size $\phi D \times L$ (mm), Ripple Current (mA r.m.s./105°C, 100kHz)

| 额定电压 WV(V.DC) | 6.3(0J) | | | | 额定电压 WV(V.DC) | 10(1A) | | | |
|-----------------------|------------|---------------------------------|--------------------------|---------------|-----------------------|------------|---------------------------------|--------------------------|---------------|
| | 尺寸 Size | 容许 纹波电流 Ripple Current | 合成阻抗 Impedance(Ω MAX) | | | 尺寸 Size | 容许 纹波电流 Ripple Current | 合成阻抗 Impedance(Ω MAX) | |
| | | | 25°C, 100kHz | -10°C, 100kHz | | | | 25°C, 100kHz | -10°C, 100kHz |
| 额定 静电容量 Cap(μF) | | | | | 额定 静电容量 Cap(μF) | | | | |
| 120 | 5×11 | 300 | 0.200 | 0.800 | 100 | 5×11 | 300 | 0.200 | 0.800 |
| 330 | 6.3×11 | 470 | 0.110 | 0.440 | 220 | 6.3×11 | 470 | 0.110 | 0.440 |
| 680 | 8×11 | 750 | 0.072 | 0.288 | 560 | 8×11 | 750 | 0.072 | 0.288 |
| 1000 | 8×14 | 920 | 0.050 | 0.200 | 820 | 8×14 | 920 | 0.050 | 0.200 |
| 1200 | 10×13 | 950 | 0.054 | 0.162 | 1000 | 10×13 | 950 | 0.054 | 0.162 |
| 1500 | 10×16 | 1300 | 0.040 | 0.120 | 1200 | 10×16 | 1300 | 0.040 | 0.120 |
| 2200 | 10×21 | 1800 | 0.024 | 0.072 | 1800 | 10×21 | 1800 | 0.024 | 0.072 |
| 3300 | 10×25 | 2100 | 0.021 | 0.063 | 2700 | 10×25 | 2100 | 0.021 | 0.063 |
| 2700 | 13×16 | 1900 | 0.023 | 0.069 | 2200 | 13×16 | 1900 | 0.023 | 0.069 |
| 3900 | 13×21 | 2280 | 0.021 | 0.063 | 3300 | 13×21 | 2280 | 0.021 | 0.063 |
| 5600 | 13×26 | 2700 | 0.018 | 0.054 | 4700 | 13×26 | 2700 | 0.018 | 0.054 |
| 6800 | 13×31 | 3110 | 0.016 | 0.048 | 5600 | 13×31 | 3110 | 0.016 | 0.048 |
| 8200 | 16×25 | 3440 | 0.014 | 0.042 | 6800 | 16×25 | 3440 | 0.014 | 0.042 |
| 10000 | 16×32 | 3730 | 0.013 | 0.039 | 8200 | 16×32 | 3730 | 0.013 | 0.039 |
| 12000 | 16×35 | 4050 | 0.012 | 0.036 | 10000 | 16×35 | 4050 | 0.012 | 0.036 |
| 15000 | 18×32 | 4350 | 0.011 | 0.033 | 12000 | 18×32 | 4350 | 0.011 | 0.033 |
| 18000 | 18×35 | 4700 | 0.010 | 0.030 | 15000 | 18×35 | 4700 | 0.010 | 0.030 |
| 22000 | 18×41 | 5200 | 0.009 | 0.027 | 18000 | 18×41 | 5200 | 0.009 | 0.027 |

| 额定电压 WV(V.DC) | 16(1C) | | | | 额定电压 WV(V.DC) | 25(1E) | | | |
|-----------------------|------------|---------------------------------|--------------------------|---------------|-----------------------|------------|---------------------------------|--------------------------|---------------|
| | 尺寸 Size | 容许 纹波电流 Ripple Current | 合成阻抗 Impedance(Ω MAX) | | | 尺寸 Size | 容许 纹波电流 Ripple Current | 合成阻抗 Impedance(Ω MAX) | |
| | | | 25°C, 100kHz | -10°C, 100kHz | | | | 25°C, 100kHz | -10°C, 100kHz |
| 额定 静电容量 Cap(μF) | | | | | 额定 静电容量 Cap(μF) | | | | |
| 68 | 5×11 | 300 | 0.200 | 0.800 | 47 | 5×11 | 300 | 0.200 | 0.800 |
| 180 | 6.3×11 | 470 | 0.110 | 0.440 | 100 | 6.3×11 | 470 | 0.110 | 0.440 |
| 330 | 8×11 | 750 | 0.072 | 0.288 | 220 | 8×11 | 750 | 0.072 | 0.288 |
| 470 | 8×14 | 920 | 0.050 | 0.200 | 270 | 8×14 | 920 | 0.050 | 0.200 |
| 680 | 10×13 | 950 | 0.054 | 0.162 | 330 | 10×13 | 950 | 0.054 | 0.162 |
| 820 | 10×16 | 1170 | 0.050 | 0.150 | 470 | 10×16 | 1170 | 0.050 | 0.150 |
| 1000 | 10×21 | 1800 | 0.024 | 0.072 | 680 | 10×21 | 1800 | 0.024 | 0.072 |
| 1800 | 10×25 | 2100 | 0.021 | 0.063 | 1000 | 10×25 | 2100 | 0.021 | 0.063 |
| 2200 | 13×21 | 2280 | 0.021 | 0.063 | 1500 | 13×21 | 2280 | 0.021 | 0.063 |
| 3300 | 13×26 | 2700 | 0.018 | 0.054 | 2200 | 13×26 | 2700 | 0.018 | 0.054 |
| 4700 | 13×31 | 3110 | 0.016 | 0.048 | 2700 | 13×31 | 3110 | 0.016 | 0.048 |
| 5600 | 16×25 | 3440 | 0.014 | 0.042 | 3300 | 16×25 | 3440 | 0.014 | 0.042 |
| 6800 | 16×32 | 3730 | 0.013 | 0.039 | 4700 | 16×32 | 3730 | 0.013 | 0.039 |
| 8200 | 16×35 | 4050 | 0.012 | 0.036 | 5600 | 16×35 | 4050 | 0.012 | 0.036 |
| 10000 | 18×35 | 4700 | 0.010 | 0.030 | 6800 | 18×35 | 4700 | 0.010 | 0.030 |
| 12000 | 18×41 | 5200 | 0.009 | 0.027 | 8200 | 18×41 | 5200 | 0.009 | 0.027 |

■ 尺寸一览表, 额定纹波电流一览表 STANDARD SIZE, RATED RIPPLE CURRENT

Size $\phi D \times L$ (mm), Ripple Current (mA r.m.s./105°C, 100kHz)

| 额定电压 WV(V.DC) | 35(1V) | | | | 额定电压 WV(V.DC) | 50(1H) | | | |
|------------------------|------------|---------------------------------|--------------------------|---------------|------------------------|------------|---------------------------------|--------------------------|---------------|
| | 尺寸 Size | 容许 纹波电流 Ripple Current | 合成阻抗 Impedance(Ω MAX) | | | 尺寸 Size | 容许 纹波电流 Ripple Current | 合成阻抗 Impedance(Ω MAX) | |
| | | | 25°C, 100kHz | -10°C, 100kHz | | | | 25°C, 100kHz | -10°C, 100kHz |
| 额定 静电容量 Cap(μ F) | | | | | 额定 静电容量 Cap(μ F) | | | | |
| 33 | 5×11 | 300 | 0.200 | 0.800 | 10 | 5×11 | 300 | 0.200 | 0.800 |
| 47 | 6.3×11 | 470 | 0.110 | 0.440 | 22 | 5×11 | 300 | 0.200 | 0.800 |
| 100 | 8×11 | 750 | 0.072 | 0.288 | 33 | 6.3×11 | 470 | 0.110 | 0.440 |
| 150 | 8×14 | 855 | 0.062 | 0.248 | 47 | 6.3×11 | 470 | 0.110 | 0.440 |
| 220 | 8×14 | 855 | 0.062 | 0.248 | 100 | 8×11 | 750 | 0.072 | 0.288 |
| 270 | 8×20 | 1190 | 0.045 | 0.180 | 120 | 8×16 | 980 | 0.045 | 0.180 |
| 330 | 10×16 | 1300 | 0.040 | 0.120 | 150 | 8×20 | 1190 | 0.045 | 0.180 |
| 470 | 10×16 | 1300 | 0.040 | 0.120 | 220 | 10×16 | 1300 | 0.040 | 0.120 |
| 470 | 10×21 | 1800 | 0.024 | 0.072 | 330 | 10×17 | 1500 | 0.038 | 0.114 |
| 680 | 13×21 | 2280 | 0.021 | 0.063 | 470 | 10×21 | 1800 | 0.024 | 0.072 |
| 1000 | 10×30 | 2430 | 0.019 | 0.057 | 470 | 13×21 | 2280 | 0.021 | 0.063 |
| 1000 | 13×26 | 2700 | 0.018 | 0.054 | 470 | 16×15 | 1850 | 0.029 | 0.079 |
| 1200 | 13×31 | 3110 | 0.016 | 0.048 | 560 | 13×26 | 2700 | 0.018 | 0.054 |
| 1500 | 13×36 | 3430 | 0.015 | 0.045 | 680 | 13×31 | 3110 | 0.016 | 0.048 |
| 1800 | 16×26 | 3440 | 0.014 | 0.038 | 820 | 13×36 | 3430 | 0.015 | 0.045 |
| 2200 | 16×26 | 3440 | 0.014 | 0.038 | 1000 | 16×26 | 3440 | 0.014 | 0.038 |
| 2200 | 16×32 | 3730 | 0.013 | 0.035 | 1200 | 16×32 | 3730 | 0.013 | 0.035 |

| 额定电压 WV(V.DC) | 63(1J) | | | | 额定电压 WV(V.DC) | 100(2A) | | | |
|------------------------|------------|---------------------------------|--------------------------|---------------|------------------------|------------|---------------------------------|--------------------------|---------------|
| | 尺寸 Size | 容许 纹波电流 Ripple Current | 合成阻抗 Impedance(Ω MAX) | | | 尺寸 Size | 容许 纹波电流 Ripple Current | 合成阻抗 Impedance(Ω MAX) | |
| | | | 25°C, 100kHz | -10°C, 100kHz | | | | 25°C, 100kHz | -10°C, 100kHz |
| 额定 静电容量 Cap(μ F) | | | | | 额定 静电容量 Cap(μ F) | | | | |
| 10 | 5×11 | 145 | 0.900 | 3.600 | 4.7 | 5×11 | 120 | 1.400 | 5.600 |
| 22 | 6.3×11 | 250 | 0.400 | 1.600 | 10 | 6.3×11 | 200 | 0.570 | 2.280 |
| 33 | 6.3×11 | 250 | 0.400 | 1.600 | 22 | 8×11 | 320 | 0.350 | 1.400 |
| 47 | 8×11 | 400 | 0.220 | 0.880 | 33 | 8×14 | 420 | 0.240 | 0.960 |
| 100 | 8×16 | 600 | 0.160 | 0.660 | 47 | 10×16 | 585 | 0.170 | 0.510 |
| 120 | 10×16 | 880 | 0.110 | 0.330 | 68 | 10×16 | 585 | 0.170 | 0.510 |
| 150 | 10×21 | 1050 | 0.080 | 0.240 | 100 | 10×21 | 800 | 0.110 | 0.330 |
| 180 | 10×21 | 1050 | 0.080 | 0.240 | 150 | 13×21 | 1190 | 0.070 | 0.210 |
| 220 | 10×25 | 1230 | 0.075 | 0.225 | 180 | 13×26 | 1450 | 0.058 | 0.174 |
| 270 | 10×25 | 1230 | 0.075 | 0.225 | 220 | 13×31 | 1650 | 0.052 | 0.156 |
| 330 | 13×21 | 1400 | 0.066 | 0.198 | 330 | 16×32 | 2200 | 0.038 | 0.103 |
| 470 | 13×26 | 1700 | 0.045 | 0.135 | 470 | 18×32 | 2600 | 0.032 | 0.087 |

■ 耐久性 ENDURANCE

□ 100μ F-25V 6.3×07 △470μ F-16V 8×11 ▲2200μ F-16V 10×26

