

LARGE CAN TYPE

LS Series

Snap-in Terminal Type, Miniature Sized

JAMICON®

- Smaller case sized than LP series.
- Withstanding 2000 hours application of high ripple current at 85°C.

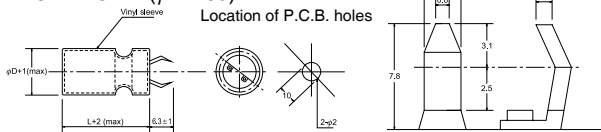


SPECIFICATION

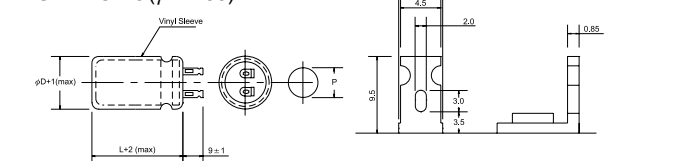
| Item | Characteristic | | | | | | | | | | | | | | | |
|---|---|-----------------------------------|------|----------|----------|---------|----------|---------|----------|---------|---------|---------|---------|-------|-----|-----|
| Operation Temperature Range | -40 ~ +85°C | | | | | | | | | | | | | | | |
| Rated Working Voltage | 16 ~ 500VDC | | | | | | | | | | | | | | | |
| Capacitance Tolerance (120Hz 20°C) | ±20%(M) | | | | | | | | | | | | | | | |
| Leakage Current (20°C) | I ≤ 0.02CV or 3 (mA) *Whichever is smaller after 5 minutes I : Leakage Current (μA) C : Rated Capacitance (μF) V : Working Voltage (V) | | | | | | | | | | | | | | | |
| Surge Voltage (20°C) | W.V. | 16 | 25 | 35 | 50 | 63 | 80 | 100 | 160 | 180 | 200 | 250 | 350 | 400 | 450 | 500 |
| | S.V. | 20 | 32 | 44 | 63 | 79 | 100 | 125 | 200 | 225 | 250 | 300 | 400 | 450 | 500 | 550 |
| Dissipation Factor (tan δ) (120Hz 20°C) | Rated Voltage (V) | 16 | 25 | 35 | | 50 | | 63 | | 80 | | 100 | | ≥ 160 | | |
| | Capacitance | — | — | ≤ 22,000 | ≥ 33,000 | ≤ 6,800 | ≥ 10,000 | ≤ 6,800 | ≥ 10,000 | ≤ 2,200 | ≥ 3,300 | ≤ 3,300 | ≥ 4,700 | — | | |
| | tan δ | 0.50 | 0.40 | 0.35 | 0.40 | 0.30 | 0.35 | 0.25 | 0.35 | 0.20 | 0.25 | 0.20 | 0.25 | 0.15 | | |
| Low Temperature Stability | Impedance ratio at 120Hz | | | | | | | | | | | | | | | |
| | Rated Voltage (V) | 16~100 | | | | 160~250 | | | | 350~500 | | | | | | |
| | -25°C / +20°C | 4 | | | | 6 | | | | 8 | | | | | | |
| | -40°C / +20°C | 15 | | | | — | | | | — | | | | | | |
| Load Life | After 2000 hours application of W.V. and +85°C ripple current value, the capacitor shall meet the following limits. (DC + ripple peak voltage ≤ rate working voltage) | | | | | | | | | | | | | | | |
| | Capacitance Change | ≤ ± 15% of initial value | | | | | | | | | | | | | | |
| | Dissipation Factor | ≤ 175% of initial specified value | | | | | | | | | | | | | | |
| | Leakage current | ≤ initial specified value | | | | | | | | | | | | | | |
| Shelf Life | At +85°C, no voltage application after 1000 hours, the capacitor shall meet the limits for load life characteristics. (With voltage treatment) | | | | | | | | | | | | | | | |

TERMINAL TYPE

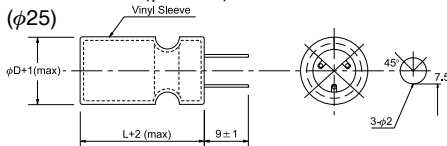
▲ P.C.B. TERMINAL (SNAP IN)
SYMBOL: W (φ22~35)



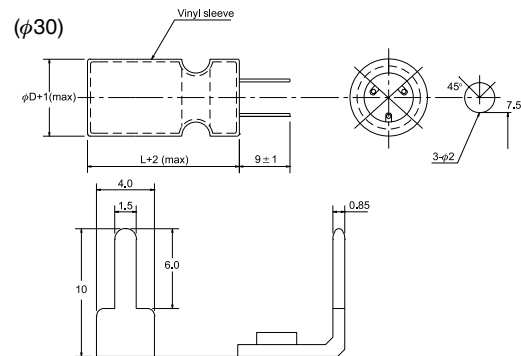
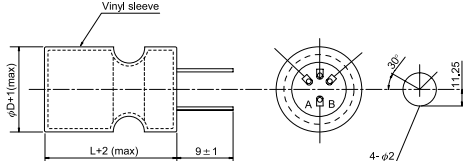
▲ LUG TERMINAL
SYMBOL: G (φ22~35)



▲ P.C.B. TERMINAL
SYMBOL: V (φ25~35)



(φ35)
A.B. blank terminals



RIPPLE CURRENT COEFFICIENTS

| Temperature(°C) | 40 | 60 | 70 | 85 |
|-----------------|------|------|------|------|
| Multiplier | 1.80 | 1.40 | 1.20 | 1.00 |

| Frequency(Hz) | 60 | 120 | 400 | 1k | 10k |
|---------------|------------|------|------|------|------|
| W.V. | Multiplier | | | | |
| ≤ 100V | 0.80 | 1.00 | 1.10 | 1.20 | 1.20 |
| ≥ 160V | 0.80 | 1.00 | 1.10 | 1.30 | 1.40 |

● CASE SIZE & MAX RIPPLE CURRENT

Case size : D x L (mm)
 Max ripple current : A(rms) 85°C 120Hz

| μF | V(Code) Code φD | 16 (1C) | | | | 25 (1E) | | | | 35 (1V) | | | |
|-------|--------------------|---------|------|------|------|---------|------|------|------|---------|------|-------|------|
| | | 22 | 25 | 30 | 35 | 22 | 25 | 30 | 35 | 22 | 25 | 30 | 35 |
| 3300 | 332 | | | | | | | | | 25 | | | |
| 4700 | 472 | | | | | 25 | | | | 30 | 25 | | |
| | | | | | | 2.25 | | | | 2.41 | 2.30 | | |
| 6800 | 682 | 25 | | | | 30 | 25 | | | 35 | 30 | 25 | |
| | | 2.40 | | | | 2.69 | 2.56 | | | 2.82 | 2.70 | 2.66 | |
| 10000 | 103 | 30 | 25 | | | 35 | 30 | 25 | | 45 | 35 | 30 | 25 |
| | | 2.81 | 2.67 | | | 3.09 | 2.97 | 2.92 | | 3.34 | 3.06 | 3.04 | 3.28 |
| 15000 | 153 | 40 | 30 | 25 | | 45 | 35 | 30 | 25 | | 50 | 35 | 30 |
| | | 3.43 | 3.11 | 3.07 | | 3.70 | 3.39 | 3.37 | 3.63 | | 4.06 | 3.67 | 3.98 |
| 22000 | 223 | | 45 | 30 | 25 | | 45 | 35 | 30 | | | 45 | 40 |
| | | | 4.25 | 3.78 | 4.09 | | 4.48 | 4.25 | 4.61 | | | 4.94 | 5.41 |
| 33000 | 333 | | | 45 | 35 | | | 50 | 40 | | | L(mm) | 50 |
| | | | | 5.48 | 5.67 | | | 6.05 | 6.33 | | | R.C. | 7.27 |

| μF | V(Code) Code φD | 50 (1H) | | | | 63 (1J) | | | | 80 (1K) | | | | 100 (2A) | | | |
|-------|--------------------|---------|------|------|------|---------|------|------|------|---------|------|------|------|----------|------|------|-------|
| | | 22 | 25 | 30 | 35 | 22 | 25 | 30 | 35 | 22 | 25 | 30 | 35 | 22 | 25 | 30 | 35 |
| 1000 | 102 | | | | | | | | | 25 | | | | 30 | 25 | | |
| 1200 | 122 | | | | | | | | | | | | | 35 | 30 | | |
| | | | | | | | | | | | | | | 2.01 | 1.93 | | |
| 1500 | 152 | | | | | 25 | | | | 30 | 25 | | | 35 | 30 | 25 | |
| | | | | | | 1.66 | | | | 1.88 | 1.79 | | | 2.11 | 2.03 | 2.00 | |
| 1800 | 182 | | | | | | | | | | | | | 45 | 35 | 30 | |
| | | | | | | | | | | | | | | 2.59 | 2.37 | 2.35 | |
| 2200 | 222 | 25 | | | | 30 | 25 | | | 40 | 30 | 25 | | 50 | 40 | 30 | 25 |
| | | 1.92 | | | | 2.08 | 1.98 | | | 2.45 | 2.22 | 2.19 | | 2.84 | 2.64 | 2.47 | 2.66 |
| 3300 | 332 | 30 | 25 | | | 35 | 30 | 25 | | 50 | 40 | 30 | 25 | | 50 | 40 | 30 |
| | | 2.35 | 2.24 | | | 2.51 | 2.41 | 2.38 | | 3.05 | 2.83 | 2.65 | 2.86 | | 3.25 | 3.11 | 3.19 |
| 4700 | 472 | 35 | 30 | 25 | | 45 | 35 | 30 | 25 | | 50 | 40 | 30 | | | 50 | 40 |
| | | 2.72 | 2.62 | 2.58 | | 3.04 | 2.79 | 2.77 | 2.99 | | 3.36 | 3.21 | 3.30 | | | 3.65 | 3.82 |
| 6800 | 682 | 50 | 40 | 30 | 25 | | 50 | 35 | 30 | | | 50 | 40 | | | | 50 |
| | | 3.45 | 3.20 | 3.00 | 3.23 | | 3.53 | 3.19 | 3.46 | | | 3.80 | 3.98 | | | | 4.48 |
| 10000 | 103 | | 50 | 35 | 30 | | | 45 | 40 | | | | | | | | |
| | | | 3.70 | 3.35 | 3.64 | | | 3.72 | 4.08 | | | | | | | | |
| 15000 | 153 | | | 50 | 40 | | | | 50 | | | | | | | | |
| | | | | 4.61 | 4.83 | | | | 5.30 | | | | | | | | |
| 18000 | 183 | | | | 45 | | | | | | | | | | | | |
| | | | | | 5.55 | | | | | | | | | | | | |
| 22000 | 223 | | | | 50 | | | | | | | | | | | | L(mm) |
| | | | | | 6.42 | | | | | | | | | | | | R.C. |

