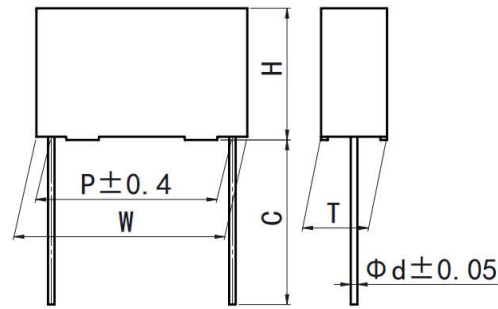


Version history

| Current version | Date | Author | Change description |
|-----------------|------|--------|--------------------|
| | | | |
| | | | |
| | | | |

Metallized polypropylene film capacitor (Box-type)
■ Outline Drawing

 $W \pm 0.4, H \pm 0.4, T \pm 0.4$
■ Features

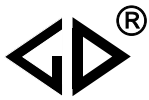
- Metallized polypropylene structure.
- Excellent electric property.
- Plastic case (UL94 V-0), Epoxy resin sealing.

■ Typical Applications

- As intermediate circuit capacitors for SMPS, Electronic Ballast, inverter(i.e. DC-link, DC-filter and P.F.C)

■ Specifications

| | | | | | | | | | |
|---|---|--|--------|--------|--------|-----------------|--------|--------|--------|
| Reference Standard | GB/T 10190(IEC 60384-16) | | | | | | | | |
| Climatic Category | 40/105/56 | | | | | | | | |
| Rated Temperature | 85°C | | | | | | | | |
| Operating Temperature Range | -40°C~105°C (+85°C to +105°C: decreasing factor 1.25% per °C for U_R) | | | | | | | | |
| Rated Voltage | 450Vdc, 520Vdc, 630Vdc | | | | | | | | |
| Capacitance Range | 0.022 μ F~22 μ F | | | | | | | | |
| Capacitance Tolerance | $\pm 5\%$ (J), $\pm 10\%$ (K), $\pm 20\%$ (M) | | | | | | | | |
| Voltage Proof | 1.6 U_R (5s) | | | | | | | | |
| Dissipation Factor | $\leq 15 \times 10^{-4}$ (20°C, 1kHz) | | | | | | | | |
| Insulation Resistance | $R \geq 100\,000\text{M}\Omega$, $C_N \leq 0.33\mu\text{F}$ $RC_N \geq 15\,000\text{s}$, $C_N > 0.33\mu\text{F}$ | | | | | | | | |
| Maximum Pulse Rise Time(dV/dt) If the working voltage(U) is lower than the rated voltage(U_R),the capacitor can be worked at a higher dV/dt. In this case, the maximum allowed dV/dt is obtain by multiplying the right value with U_R/U . | U_R (V) | Max dV/dt(V/us) ——Miniature version | | | | Max dV/dt(V/us) | | | |
| | | P=10.0 | P=15.0 | P=22.5 | P=27.5 | P=10.0 | P=15.0 | P=22.5 | P=27.5 |
| | 450 | 100 | 65 | 35 | 20 | 300 | 200 | 100 | 80 |
| | 520 | 120 | 80 | 60 | 40 | 350 | 220 | 150 | 100 |
| | 630 | 200 | 160 | 70 | 50 | 400 | 300 | 180 | 120 |



Part number system

The 15 digits part number is formed as follow:

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| C | 3 | 5 | | | | | | | | | | | | |

Digit 1 to 3 Series code

C35=MKP25

Digit 4 to 5 D.C. rated voltage:

2S=450V 2T=520V 2J=630V

Digit 6 to 8 Rated capacitance value

For example: 103=10 × 10³pf=0.01uF

Digit 9 Capacitance tolerance

J=±5%, K=±10%, M=±20%

Digit 10 Pitch

4=10.0mm 6=15.0mm

9=22.5mm B=27.5mm

Digit 11 Internal use

Digit 12 to 15 Lead form and packaging code

Table1 Lead form and packaging code

| Digit 12 | | Digit 13 | | Digit 14 | | Digit 15 | |
|----------|--|----------|-------------------------------------|----------|------------------------------|----------|---|
| code | explanation | code | explanation | code | explanation | code | explanation |
| A | ammo-pack | 46 | F=10.0mm F=15.0mm | 0 | straight | 5 | P3=25.4mm;H=18.5mm (For pitch=10/15mm) |
| F | lead kinked | 46 | F=10.0mm F=15.0mm | 0 | B=4.5mm (the length of B) | 0 | B Length tolerance ±0.5mm |
| C | straight lead "C" in the figure above | code | explanation | | | 0 | Length tolerance ±0.5mm Or standard length |
| | | 00 | standard lead length (18mm~26mm) | | | | |
| | | 45 | lead length 4.5mm | | | | |

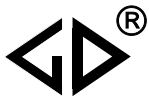
Note: Recommend short lead due to long lead could deform easily.



■ Dimensions (mm) ---Miniature version (Small sizes+ Segmented metallized-film design)

| 450Vdc | | | | | | | 520Vdc | | | | | | | 630Vdc | | | | | | |
|------------------------|------|------|------|------|-----|-----------------|------------------------|------|------|------|------|-----|-----------------|------------------------|------|------|------|------|-----|-----------------|
| C _N (μF) | W | H | T | P | d | Part number | C _N (μF) | W | H | T | P | d | Part number | C _N (μF) | W | H | T | P | d | Part number |
| 0.12 | 13.0 | 9.0 | 4.0 | 10.0 | 0.6 | C352S124-4S**** | 0.082 | 13.0 | 9.0 | 4.0 | 10.0 | 0.6 | C352T823-4S**** | 0.056 | 13.0 | 9.0 | 4.0 | 10.0 | 0.6 | C352J563-4S**** |
| 0.15 | 13.0 | 9.0 | 4.0 | 10.0 | 0.6 | C352S154-4S**** | 0.10 | 13.0 | 9.0 | 4.0 | 10.0 | 0.6 | C352T104-4S**** | 0.068 | 13.0 | 9.0 | 4.0 | 10.0 | 0.6 | C352J683-4S**** |
| 0.18 | 13.0 | 11.0 | 5.0 | 10.0 | 0.6 | C352S184-4S**** | 0.12 | 13.0 | 11.0 | 5.0 | 10.0 | 0.6 | C352T124-4S**** | 0.082 | 13.0 | 11.0 | 5.0 | 10.0 | 0.6 | C352J823-4S**** |
| 0.22 | 13.0 | 11.0 | 5.0 | 10.0 | 0.6 | C352S224-4S**** | 0.15 | 13.0 | 11.0 | 5.0 | 10.0 | 0.6 | C352T154-4S**** | 0.10 | 13.0 | 11.0 | 5.0 | 10.0 | 0.6 | C352J104-4S**** |
| 0.27 | 13.0 | 12.0 | 6.0 | 10.0 | 0.6 | C352S274-4S**** | 0.18 | 13.0 | 12.0 | 6.0 | 10.0 | 0.6 | C352T184-4S**** | 0.12 | 13.0 | 12.0 | 6.0 | 10.0 | 0.6 | C352J124-4S**** |
| 0.33 | 13.0 | 12.0 | 6.0 | 10.0 | 0.6 | C352S334-4S**** | 0.22 | 13.0 | 12.0 | 6.0 | 10.0 | 0.6 | C352T224-4S**** | 0.15 | 13.0 | 12.0 | 6.0 | 10.0 | 0.6 | C352J154-4S**** |
| 0.39 | 13.0 | 13.0 | 7.0 | 10.0 | 0.6 | C352S394-4S**** | 0.27 | 13.0 | 13.0 | 7.0 | 10.0 | 0.6 | C352T274-4S**** | 0.18 | 13.0 | 13.0 | 7.0 | 10.0 | 0.6 | C352J184-4S**** |
| 0.47 | 13.0 | 13.0 | 7.0 | 10.0 | 0.6 | C352S474-4S**** | 0.33 | 13.0 | 13.0 | 7.0 | 10.0 | 0.6 | C352T334-4S**** | 0.22 | 13.0 | 13.0 | 7.0 | 10.0 | 0.6 | C352J224-4S**** |
| 0.56 | 13.0 | 14.0 | 8.0 | 10.0 | 0.6 | C352S564-4S**** | 0.39 | 13.0 | 14.0 | 8.0 | 10.0 | 0.6 | C352T394-4S**** | 0.27 | 13.0 | 14.0 | 8.0 | 10.0 | 0.6 | C352J274-4S**** |
| 0.68 | 13.0 | 14.0 | 8.0 | 10.0 | 0.6 | C352S684-4S**** | 0.47 | 13.0 | 14.0 | 8.0 | 10.0 | 0.6 | C352T474-4S**** | 0.33 | 13.0 | 14.0 | 8.0 | 10.0 | 0.6 | C352J334-4S**** |
| 0.22 | 17.5 | 11.0 | 5.0 | 15.0 | 0.6 | C352S224-6S**** | 0.27 | 17.5 | 11.0 | 5.0 | 15.0 | 0.6 | C352T274-6S**** | 0.18 | 17.5 | 11.0 | 5.0 | 15.0 | 0.6 | C352J184-6S**** |
| 0.33 | 17.5 | 11.0 | 5.0 | 15.0 | 0.6 | C352S334-6S**** | 0.33 | 17.5 | 11.0 | 5.0 | 15.0 | 0.6 | C352T334-6S**** | 0.22 | 17.5 | 11.0 | 5.0 | 15.0 | 0.6 | C352J224-6S**** |
| 0.39 | 17.5 | 11.0 | 5.0 | 15.0 | 0.6 | C352S394-6S**** | 0.39 | 17.5 | 12.0 | 6.0 | 15.0 | 0.6 | C352T394-6S**** | 0.27 | 17.5 | 12.0 | 6.0 | 15.0 | 0.6 | C352J274-6S**** |
| 0.47 | 17.5 | 11.0 | 5.0 | 15.0 | 0.6 | C352S474-6S**** | 0.47 | 17.5 | 12.0 | 6.0 | 15.0 | 0.6 | C352T474-6S**** | 0.33 | 17.5 | 12.0 | 6.0 | 15.0 | 0.6 | C352J334-6S**** |
| 0.56 | 17.5 | 12.0 | 6.0 | 15.0 | 0.6 | C352S564-6S**** | 0.56 | 17.5 | 12.0 | 7.0 | 15.0 | 0.6 | C352T564-6S**** | 0.39 | 17.5 | 12.0 | 7.0 | 15.0 | 0.6 | C352J394-6S**** |
| 0.68 | 17.5 | 12.0 | 7.0 | 15.0 | 0.6 | C352S684-6S**** | 0.68 | 17.5 | 13.5 | 7.5 | 15.0 | 0.6 | C352T684-6S**** | 0.47 | 17.5 | 13.5 | 7.5 | 15.0 | 0.6 | C352J474-6S**** |
| 0.82 | 17.5 | 12.0 | 7.0 | 15.0 | 0.6 | C352S824-6S**** | 0.82 | 17.5 | 14.0 | 8.0 | 15.0 | 0.6 | C352T824-6S**** | 0.56 | 17.5 | 14.0 | 8.0 | 15.0 | 0.6 | C352J564-6S**** |
| 1.0 | 17.5 | 13.5 | 7.5 | 15.0 | 0.6 | C352S105-6S**** | 1.0 | 17.5 | 14.5 | 8.5 | 15.0 | 0.6 | C352T105-6S**** | 0.68 | 17.5 | 14.5 | 8.5 | 15.0 | 0.6 | C352J684-6S**** |
| 1.2 | 17.5 | 14.0 | 8.0 | 15.0 | 0.6 | C352S125-6S**** | 1.2 | 17.5 | 16.0 | 10.0 | 15.0 | 0.8 | C352T125-6S**** | 0.82 | 17.5 | 16.0 | 10.0 | 15.0 | 0.8 | C352J824-6S**** |
| 1.5 | 17.5 | 16.0 | 10.0 | 15.0 | 0.8 | C352S155-6S**** | 1.5 | 17.5 | 19.0 | 11.0 | 15.0 | 0.8 | C352T155-6S**** | 1.0 | 17.5 | 16.0 | 10.0 | 15.0 | 0.8 | C352J105-6S**** |
| 1.8 | 17.5 | 16.0 | 10.0 | 15.0 | 0.8 | C352S185-6S**** | 0.68 | 26.5 | 15.0 | 6.0 | 22.5 | 0.8 | C352T684-9S**** | 1.2 | 17.5 | 19.0 | 11.0 | 15.0 | 0.8 | C352J125-6S**** |
| 2.2 | 17.5 | 19.0 | 11.0 | 15.0 | 0.8 | C352S225-6S**** | 0.82 | 26.5 | 15.0 | 6.0 | 22.5 | 0.8 | C352T824-9S**** | 0.47 | 26.5 | 15.0 | 6.0 | 22.5 | 0.8 | C352J474-9S**** |
| 1.0 | 26.5 | 15.0 | 6.0 | 22.5 | 0.8 | C352S105-9S**** | 1.0 | 26.5 | 16.0 | 7.0 | 22.5 | 0.8 | C352T105-9S**** | 0.56 | 26.5 | 15.0 | 6.0 | 22.5 | 0.8 | C352J564-9S**** |
| 1.2 | 26.5 | 15.0 | 6.0 | 22.5 | 0.8 | C352S125-9S**** | 1.2 | 26.5 | 16.0 | 7.0 | 22.5 | 0.8 | C352T125-9S**** | 0.68 | 26.5 | 16.0 | 7.0 | 22.5 | 0.8 | C352J684-9S**** |
| 1.5 | 26.5 | 16.0 | 7.0 | 22.5 | 0.8 | C352S155-9S**** | 1.5 | 26.5 | 17.0 | 8.5 | 22.5 | 0.8 | C352T155-9S**** | 0.82 | 26.5 | 16.0 | 7.0 | 22.5 | 0.8 | C352J824-9S**** |
| 1.8 | 26.5 | 16.0 | 7.0 | 22.5 | 0.8 | C352S185-9S**** | 1.8 | 26.5 | 17.0 | 8.5 | 22.5 | 0.8 | C352T185-9S**** | 1.0 | 26.5 | 17.0 | 8.5 | 22.5 | 0.8 | C352J105-9S**** |
| 2.2 | 26.5 | 17.0 | 8.5 | 22.5 | 0.8 | C352S225-9S**** | 2.2 | 26.5 | 18.5 | 10.0 | 22.5 | 0.8 | C352T225-9S**** | 1.2 | 26.5 | 17.0 | 8.5 | 22.5 | 0.8 | C352J125-9S**** |
| 2.7 | 26.5 | 17.0 | 8.5 | 22.5 | 0.8 | C352S275-9S**** | 2.7 | 26.5 | 18.5 | 10.0 | 22.5 | 0.8 | C352T275-9S**** | 1.5 | 26.5 | 18.5 | 10.0 | 22.5 | 0.8 | C352J155-9S**** |
| 3.3 | 26.5 | 18.5 | 10.0 | 22.5 | 0.8 | C352S335-9S**** | 3.3 | 26.5 | 20.0 | 11.0 | 22.5 | 0.8 | C352T335-9S**** | 1.8 | 26.5 | 18.5 | 10.0 | 22.5 | 0.8 | C352J185-9S**** |
| 3.9M | 26.5 | 18.5 | 10.0 | 22.5 | 0.8 | C352S395M9S**** | 3.9 | 26.5 | 22.0 | 12.0 | 22.5 | 0.8 | C352T395-9S**** | 2.2 | 26.5 | 20.0 | 11.0 | 22.5 | 0.8 | C352J225-9S**** |
| 4.7K | 26.5 | 20.0 | 11.0 | 22.5 | 0.8 | C352S475K9S**** | 4.7 | 26.5 | 24.5 | 15.5 | 22.5 | 0.8 | C352T475-9S**** | 2.7 | 26.5 | 22.0 | 12.0 | 22.5 | 0.8 | C352J275-9S**** |
| 5.6 | 26.5 | 22.0 | 12.0 | 22.5 | 0.8 | C352S565-9S**** | 5.6 | 26.5 | 24.5 | 15.5 | 22.5 | 0.8 | C352T565-9S**** | 3.3 | 26.5 | 24.5 | 15.5 | 22.5 | 0.8 | C352J335-9S**** |
| 6.8 | 26.5 | 24.5 | 15.5 | 22.5 | 0.8 | C352S685-9S**** | 2.2 | 32.0 | 18.0 | 9.0 | 27.5 | 0.8 | C352T225-BS**** | 3.9 | 26.5 | 24.5 | 15.5 | 22.5 | 0.8 | C352J395-9S**** |
| 8.2 | 26.5 | 24.5 | 15.5 | 22.5 | 0.8 | C352S825-9S**** | 2.7 | 32.0 | 18.0 | 9.0 | 27.5 | 0.8 | C352T275-BS**** | 1.8 | 32.0 | 18.0 | 9.0 | 27.5 | 0.8 | C352J185-BS**** |
| 3.3 | 32.0 | 18.0 | 9.0 | 27.5 | 0.8 | C352S335-BS**** | 3.3 | 32.0 | 20.0 | 11.0 | 27.5 | 0.8 | C352T335-BS**** | 2.2 | 32.0 | 20.0 | 11.0 | 27.5 | 0.8 | C352J225-BS**** |
| 3.9M | 32.0 | 18.0 | 9.0 | 27.5 | 0.8 | C352S395MBS**** | 3.9 | 32.0 | 20.0 | 11.0 | 27.5 | 0.8 | C352T395-BS**** | 2.7 | 32.0 | 20.0 | 11.0 | 27.5 | 0.8 | C352J275-BS**** |
| 4.7 | 32.0 | 20.0 | 11.0 | 27.5 | 0.8 | C352S475-BS**** | 4.7 | 32.0 | 22.0 | 13.0 | 27.5 | 0.8 | C352T475-BS**** | 3.3 | 32.0 | 22.0 | 13.0 | 27.5 | 0.8 | C352J335-BS**** |
| 5.6M | 32.0 | 20.0 | 11.0 | 27.5 | 0.8 | C352S565MBS**** | 5.6 | 32.0 | 22.0 | 13.0 | 27.5 | 0.8 | C352T565-BS**** | 3.9M | 32.0 | 22.0 | 13.0 | 27.5 | 0.8 | C352J395MBS**** |
| 6.8 | 32.0 | 22.0 | 13.0 | 27.5 | 0.8 | C352S685-BS**** | 6.8 | 32.0 | 24.5 | 15.0 | 27.5 | 0.8 | C352T685-BS**** | 4.7 | 32.0 | 24.5 | 15.0 | 27.5 | 0.8 | C352J475-BS**** |
| 8.2 | 32.0 | 24.5 | 15.0 | 27.5 | 0.8 | C352S825-BS**** | 8.2 | 32.0 | 28.0 | 14.0 | 27.5 | 0.8 | C352T825-BS**** | 5.6 | 32.0 | 28.0 | 17.0 | 27.5 | 0.8 | C352J565-BS**** |
| 10.0M | 32.0 | 24.5 | 15.0 | 27.5 | 0.8 | C352S106MBS**** | 10.0M | 32.0 | 28.0 | 17.0 | 27.5 | 0.8 | C352T106MBS**** | 6.8 | 32.0 | 28.0 | 17.0 | 27.5 | 0.8 | C352J685-BS**** |
| 12.0 | 32.0 | 28.0 | 17.0 | 27.5 | 0.8 | C352S126-BS**** | 12.0 | 32.0 | 33.0 | 18.0 | 27.5 | 0.8 | C352T126-BS**** | 8.2M | 32.0 | 29.0 | 19.0 | 27.5 | 0.8 | C352J825MBS**** |
| 15.0 | 32.0 | 33.0 | 18.0 | 27.5 | 0.8 | C352S156-BS**** | 15.0 | 32.0 | 37.0 | 22.0 | 27.5 | 0.8 | C352T156-BS**** | 10.0 | 32.0 | 37.0 | 22.0 | 27.5 | 0.8 | C352J106-BS**** |
| 18.0 | 32.0 | 37.0 | 22.0 | 27.5 | 0.8 | C352S186-BS**** | 18.0 | 32.0 | 37.0 | 22.0 | 27.5 | 0.8 | C352T186-BS**** | 12.0 | 32.0 | 37.0 | 22.0 | 27.5 | 0.8 | C352J126-BS**** |
| 22.0 | 32.0 | 37.0 | 22.0 | 27.5 | 0.8 | C352S226-BS**** | | | | | | | | | | | | | | |

Note: 1. “-” =capacitance tolerance code, M=±20%,K=±10%,J=±5%
 2. “****” =lead form and packaging code (refer to table 1)



■ Dimensions (mm)

| 450Vdc | | | | | | | 450Vdc | | | | | | | 520Vdc | | | | | | |
|------------------------|------|------|------|------|-----|-----------------|------------------------|------|------|------|------|-----|-----------------|------------------------|------|------|------|------|-----|-----------------|
| C _N (μF) | W | H | T | P | d | Part number | C _N (μF) | W | H | T | P | d | Part number | C _N (μF) | W | H | T | P | d | Part number |
| 0.068 | 13.0 | 9.0 | 4.0 | 10.0 | 0.6 | C352S683-40**** | 1.2 | 26.5 | 18.5 | 10.0 | 22.5 | 0.8 | C352S125-90**** | 0.047 | 13.0 | 9.0 | 4.0 | 10.0 | 0.6 | C352T473-40**** |
| 0.082 | 13.0 | 9.0 | 4.0 | 10.0 | 0.6 | C352S823-40**** | 1.5 | 26.5 | 18.5 | 10.0 | 22.5 | 0.8 | C352S155-90**** | 0.056 | 13.0 | 9.0 | 4.0 | 10.0 | 0.6 | C352T563-40**** |
| 0.10 | 13.0 | 11.0 | 5.0 | 10.0 | 0.6 | C352S104-40**** | 1.8 | 26.5 | 22.0 | 12.0 | 22.5 | 0.8 | C352S185-90**** | 0.068 | 13.0 | 9.0 | 4.0 | 10.0 | 0.6 | C352T683-40**** |
| 0.12 | 13.0 | 11.0 | 5.0 | 10.0 | 0.6 | C352S124-40**** | 0.68 | 32.0 | 18.0 | 9.0 | 27.5 | 0.8 | C352S684-B0**** | 0.082 | 13.0 | 11.0 | 5.0 | 10.0 | 0.6 | C352T823-40**** |
| 0.15 | 13.0 | 12.0 | 6.0 | 10.0 | 0.6 | C352S154-40**** | 0.82 | 32.0 | 18.0 | 9.0 | 27.5 | 0.8 | C352S824-B0**** | 0.1 | 13.0 | 11.0 | 5.0 | 10.0 | 0.6 | C352T104-40**** |
| 0.18 | 13.0 | 12.0 | 6.0 | 10.0 | 0.6 | C352S184-40**** | 1.0 | 32.0 | 18.0 | 9.0 | 27.5 | 0.8 | C352S105-B0**** | 0.12 | 13.0 | 12.0 | 6.0 | 10.0 | 0.6 | C352T124-40**** |
| 0.22 | 13.0 | 13.0 | 7.0 | 10.0 | 0.6 | C352S224-40**** | 1.2 | 32.0 | 18.0 | 9.0 | 27.5 | 0.8 | C352S125-B0**** | 0.15 | 13.0 | 12.0 | 6.0 | 10.0 | 0.6 | C352T154-40**** |
| 0.27 | 13.0 | 13.0 | 7.0 | 10.0 | 0.6 | C352S274-40**** | 1.5 | 32.0 | 18.0 | 9.0 | 27.5 | 0.8 | C352S155-B0**** | 0.18 | 13.0 | 13.0 | 7.0 | 10.0 | 0.6 | C352T184-40**** |
| 0.33 | 13.0 | 14.0 | 8.0 | 10.0 | 0.6 | C352S334-40**** | 1.8 | 32.0 | 20.0 | 11.0 | 27.5 | 0.8 | C352S185-B0**** | 0.22 | 13.0 | 13.0 | 7.0 | 10.0 | 0.6 | C352T224-40**** |
| 0.10 | 17.5 | 9.5 | 5.0 | 15.0 | 0.6 | C352S104-6A**** | 2.2 | 32.0 | 20.0 | 11.0 | 27.5 | 0.8 | C352S225-B0**** | 0.27 | 13.0 | 14.0 | 8.0 | 10.0 | 0.6 | C352T274-40**** |
| 0.12 | 17.5 | 9.5 | 5.0 | 15.0 | 0.6 | C352S124-6A**** | 2.7 | 32.0 | 22.0 | 13.0 | 27.5 | 0.8 | C352S275-B0**** | 0.033 | 17.5 | 9.5 | 5.0 | 15.0 | 0.6 | C352T333-6A**** |
| 0.15 | 17.5 | 11.0 | 5.0 | 15.0 | 0.6 | C352S154-6A**** | 3.3 | 32.0 | 22.0 | 13.0 | 27.5 | 0.8 | C352S335-B0**** | 0.039 | 17.5 | 9.5 | 5.0 | 15.0 | 0.6 | C352T393-6A**** |
| 0.18 | 17.5 | 11.0 | 5.0 | 15.0 | 0.6 | C352S184-6A**** | 3.9 | 32.0 | 24.5 | 15.0 | 27.5 | 0.8 | C352S395-B0**** | 0.047 | 17.5 | 11.0 | 5.0 | 15.0 | 0.6 | C352T473-6A**** |
| 0.22 | 17.5 | 11.0 | 5.0 | 15.0 | 0.6 | C352S224-6A**** | 4.7 | 32.0 | 33.0 | 18.0 | 27.5 | 0.8 | C352S475-B0**** | 0.056 | 17.5 | 11.0 | 5.0 | 15.0 | 0.6 | C352T563-6A**** |
| 0.27 | 17.5 | 12.0 | 6.0 | 15.0 | 0.6 | C352S274-6A**** | 5.6 | 32.0 | 33.0 | 18.0 | 27.5 | 0.8 | C352S565-B0**** | 0.068 | 17.5 | 11.0 | 5.0 | 15.0 | 0.6 | C352T683-6A**** |
| 0.33 | 17.5 | 12.0 | 6.0 | 15.0 | 0.6 | C352S334-6A**** | 6.8 | 32.0 | 33.0 | 18.0 | 27.5 | 0.8 | C352S685-B0**** | 0.082 | 17.5 | 11.0 | 5.0 | 15.0 | 0.6 | C352T823-6A**** |
| 0.39 | 17.5 | 13.5 | 7.5 | 15.0 | 0.6 | C352S394-6A**** | 8.2 | 32.0 | 33.0 | 18.0 | 27.5 | 0.8 | C352S825-B0**** | 0.1 | 17.5 | 11.0 | 5.0 | 15.0 | 0.6 | C352T104-6A**** |
| 0.47 | 17.5 | 13.5 | 7.5 | 15.0 | 0.6 | C352S474-6A**** | | | | | | | | 0.12 | 17.5 | 11.0 | 5.0 | 15.0 | 0.6 | C352T124-6A**** |
| 0.56 | 17.5 | 13.5 | 7.5 | 15.0 | 0.6 | C352S564-6A**** | | | | | | | | 0.15 | 17.5 | 11.0 | 5.0 | 15.0 | 0.6 | C352T154-6A**** |
| 0.68 | 17.5 | 16.0 | 10.0 | 15.0 | 0.8 | C352S684-60**** | | | | | | | | 0.18 | 17.5 | 11.0 | 5.0 | 15.0 | 0.6 | C352T184-6A**** |
| 0.82 | 17.5 | 16.0 | 10.0 | 15.0 | 0.8 | C352S824-60**** | | | | | | | | 0.22 | 17.5 | 12.0 | 6.0 | 15.0 | 0.6 | C352T224-6A**** |
| 1.0 | 17.5 | 19.0 | 11.0 | 15.0 | 0.8 | C352S105-60**** | | | | | | | | 0.27 | 17.5 | 12.0 | 6.0 | 15.0 | 0.6 | C352T274-6A**** |
| 0.27 | 26.5 | 15.0 | 6.0 | 22.5 | 0.6 | C352S274-9A**** | | | | | | | | 0.33 | 17.5 | 13.5 | 7.5 | 15.0 | 0.6 | C352T334-6A**** |
| 0.33 | 26.5 | 15.0 | 6.0 | 22.5 | 0.6 | C352S334-9A**** | | | | | | | | 0.39 | 17.5 | 13.5 | 7.5 | 15.0 | 0.6 | C352T394-6A**** |
| 0.39 | 26.5 | 15.0 | 6.0 | 22.5 | 0.6 | C352S394-9A**** | | | | | | | | 0.47 | 17.5 | 14.5 | 8.5 | 15.0 | 0.8 | C352T474-60**** |
| 0.47 | 26.5 | 15.0 | 6.0 | 22.5 | 0.6 | C352S474-9A**** | | | | | | | | 0.56 | 17.5 | 16.0 | 10.0 | 15.0 | 0.8 | C352T564-60**** |
| 0.56 | 26.5 | 16.0 | 7.0 | 22.5 | 0.6 | C352S564-9A**** | | | | | | | | 0.68 | 17.5 | 16.0 | 10.0 | 15.0 | 0.8 | C352T684-60**** |
| 0.68 | 26.5 | 16.0 | 7.0 | 22.5 | 0.6 | C352S684-9A**** | | | | | | | | 0.82 | 17.5 | 19.0 | 11.0 | 15.0 | 0.8 | C352T824-60**** |
| 0.82 | 26.5 | 16.0 | 7.0 | 22.5 | 0.6 | C352S824-9A**** | | | | | | | | 1.0 | 17.5 | 19.0 | 11.0 | 15.0 | 0.8 | C352T105-60**** |
| 1.0 | 26.5 | 17.0 | 8.5 | 22.5 | 0.8 | C352S105-90**** | | | | | | | | 0.18 | 26.5 | 15.0 | 6.0 | 22.5 | 0.6 | C352T184-9A**** |

Note: 1. “-” =capacitance tolerance code, M=±20%,K=±10%,J=±5%
 2. “****” =lead form and packaging code (refer to table 1)

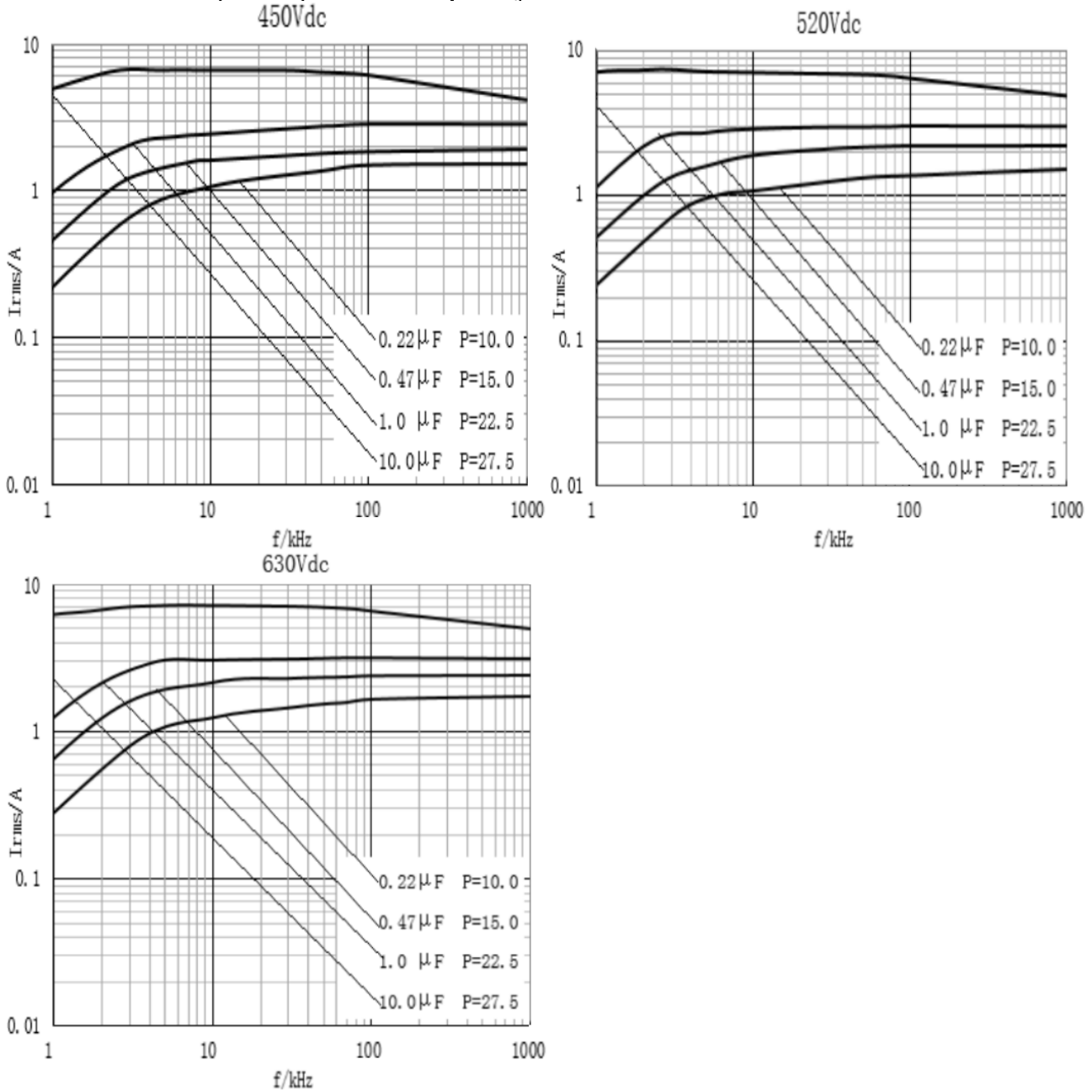


■ Dimensions (mm)

| 520Vdc (200Vac) | | | | | | | 630Vdc | | | | | | | 630Vdc | | | | | | |
|------------------------|------|------|------|------|-----|-----------------|------------------------|------|------|------|------|-----|-----------------|------------------------|------|------|------|------|-----|-----------------|
| C _N (μF) | W | H | T | P | d | Part number | C _N (μF) | W | H | T | P | d | Part number | C _N (μF) | W | H | T | P | d | Part number |
| 0.22 | 26.5 | 15.0 | 6.0 | 22.5 | 0.6 | C352J224-9A**** | 0.022 | 13.0 | 9.0 | 4.0 | 10.0 | 0.6 | C352J223-40**** | 0.18 | 26.5 | 15.0 | 6.0 | 22.5 | 0.6 | C352J184-9A**** |
| 0.27 | 26.5 | 15.0 | 6.0 | 22.5 | 0.6 | C352J274-9A**** | 0.027 | 13.0 | 9.0 | 4.0 | 10.0 | 0.6 | C352J273-40**** | 0.22 | 26.5 | 15.0 | 6.0 | 22.5 | 0.6 | C352J224-9A**** |
| 0.33 | 26.5 | 15.0 | 6.0 | 22.5 | 0.6 | C352J334-9A**** | 0.033 | 13.0 | 9.0 | 4.0 | 10.0 | 0.6 | C352J333-40**** | 0.27 | 26.5 | 15.0 | 6.0 | 22.5 | 0.6 | C352J274-9A**** |
| 0.39 | 26.5 | 16.0 | 7.0 | 22.5 | 0.6 | C352J394-9A**** | 0.039 | 13.0 | 9.0 | 4.0 | 10.0 | 0.6 | C352J393-40**** | 0.33 | 26.5 | 15.0 | 6.0 | 22.5 | 0.6 | C352J334-9A**** |
| 0.47 | 26.5 | 16.0 | 7.0 | 22.5 | 0.6 | C352J474-9A**** | 0.047 | 13.0 | 11.0 | 5.0 | 10.0 | 0.6 | C352J473-40**** | 0.39 | 26.5 | 16.0 | 7.0 | 22.5 | 0.6 | C352J394-9A**** |
| 0.56 | 26.5 | 17.0 | 8.5 | 22.5 | 0.8 | C352J564-90**** | 0.056 | 13.0 | 11.0 | 5.0 | 10.0 | 0.6 | C352J563-40**** | 0.47 | 26.5 | 16.0 | 7.0 | 22.5 | 0.6 | C352J474-9A**** |
| 0.68 | 26.5 | 17.0 | 8.5 | 22.5 | 0.8 | C352J684-90**** | 0.068 | 13.0 | 11.0 | 5.0 | 10.0 | 0.6 | C352J683-40**** | 0.56 | 26.5 | 17.0 | 8.5 | 22.5 | 0.8 | C352J564-90**** |
| 0.82 | 26.5 | 18.5 | 10.0 | 22.5 | 0.8 | C352J824-90**** | 0.082 | 13.0 | 12.0 | 6.0 | 10.0 | 0.6 | C352J823-40**** | 0.68 | 26.5 | 17.0 | 8.5 | 22.5 | 0.8 | C352J684-90**** |
| 1.0 | 26.5 | 18.5 | 10.0 | 22.5 | 0.8 | C352J105-90**** | 0.10 | 13.0 | 12.0 | 6.0 | 10.0 | 0.6 | C352J104-40**** | 0.82 | 26.5 | 18.5 | 10.0 | 22.5 | 0.8 | C352J824-90**** |
| 1.2 | 26.5 | 22.0 | 12.0 | 22.5 | 0.8 | C352J125-90**** | 0.12 | 13.0 | 13.0 | 7.0 | 10.0 | 0.6 | C352J124-40**** | 1.0 | 26.5 | 18.5 | 10.0 | 22.5 | 0.8 | C352J105-90**** |
| 0.27 | 32.0 | 18.0 | 9.0 | 27.5 | 0.8 | C352J274-B0**** | 0.15 | 13.0 | 13.0 | 7.0 | 10.0 | 0.6 | C352J154-40**** | 1.2 | 26.5 | 22.0 | 12.0 | 22.5 | 0.8 | C352J125-90**** |
| 0.33 | 32.0 | 18.0 | 9.0 | 27.5 | 0.8 | C352J334-B0**** | 0.18 | 13.0 | 14.0 | 8.0 | 10.0 | 0.6 | C352J184-40**** | 0.27 | 32.0 | 18.0 | 9.0 | 27.5 | 0.8 | C352J274-B0**** |
| 0.39 | 32.0 | 18.0 | 9.0 | 27.5 | 0.8 | C352J394-B0**** | 0.068 | 17.5 | 9.5 | 5.0 | 15.0 | 0.6 | C352J683-6A**** | 0.33 | 32.0 | 18.0 | 9.0 | 27.5 | 0.8 | C352J334-B0**** |
| 0.47 | 32.0 | 18.0 | 9.0 | 27.5 | 0.8 | C352J474-B0**** | 0.082 | 17.5 | 11.0 | 5.0 | 15.0 | 0.6 | C352J823-6A**** | 0.39 | 32.0 | 18.0 | 9.0 | 27.5 | 0.8 | C352J394-B0**** |
| 0.56 | 32.0 | 18.0 | 9.0 | 27.5 | 0.8 | C352J564-B0**** | 0.10 | 17.5 | 11.0 | 5.0 | 15.0 | 0.6 | C352J104-6A**** | 0.47 | 32.0 | 18.0 | 9.0 | 27.5 | 0.8 | C352J474-B0**** |
| 0.68 | 32.0 | 18.0 | 9.0 | 27.5 | 0.8 | C352J684-B0**** | 0.12 | 17.5 | 11.0 | 5.0 | 15.0 | 0.6 | C352J124-6A**** | 0.56 | 32.0 | 18.0 | 9.0 | 27.5 | 0.8 | C352J564-B0**** |
| 0.82 | 32.0 | 18.0 | 9.0 | 27.5 | 0.8 | C352J824-B0**** | 0.15 | 17.5 | 12.0 | 6.0 | 15.0 | 0.6 | C352J154-6A**** | 0.68 | 32.0 | 18.0 | 9.0 | 27.5 | 0.8 | C352J684-B0**** |
| 1.0 | 32.0 | 20.0 | 11.0 | 27.5 | 0.8 | C352J105-B0**** | 0.18 | 17.5 | 12.0 | 6.0 | 15.0 | 0.6 | C352J184-6A**** | 0.82 | 32.0 | 18.0 | 9.0 | 27.5 | 0.8 | C352J824-B0**** |
| 1.2 | 32.0 | 20.0 | 11.0 | 27.5 | 0.8 | C352J125-B0**** | 0.22 | 17.5 | 13.5 | 7.5 | 15.0 | 0.6 | C352J224-6A**** | 1.0 | 32.0 | 20.0 | 11.0 | 27.5 | 0.8 | C352J105-B0**** |
| 1.5 | 32.0 | 22.0 | 13.0 | 27.5 | 0.8 | C352J155-B0**** | 0.27 | 17.5 | 13.5 | 7.5 | 15.0 | 0.6 | C352J274-6A**** | 1.2 | 32.0 | 20.0 | 11.0 | 27.5 | 0.8 | C352J125-B0**** |
| 1.8 | 32.0 | 22.0 | 13.0 | 27.5 | 0.8 | C352J185-B0**** | 0.33 | 17.5 | 14.5 | 8.5 | 15.0 | 0.8 | C352J334-60**** | 1.5 | 32.0 | 22.0 | 13.0 | 27.5 | 0.8 | C352J155-B0**** |
| 2.2 | 32.0 | 24.5 | 15.0 | 27.5 | 0.8 | C352J225-B0**** | 0.39 | 17.5 | 16.0 | 10.0 | 15.0 | 0.8 | C352J394-60**** | 1.8 | 32.0 | 22.0 | 13.0 | 27.5 | 0.8 | C352J185-B0**** |
| 2.7 | 32.0 | 28.0 | 14.0 | 27.5 | 0.8 | C352J275-B0**** | 0.47 | 17.5 | 16.0 | 10.0 | 15.0 | 0.8 | C352J474-60**** | 2.2 | 32.0 | 24.5 | 15.0 | 27.5 | 0.8 | C352J225-B0**** |
| 3.3 | 32.0 | 33.0 | 18.0 | 27.5 | 0.8 | C352J335-B0**** | 0.56 | 17.5 | 19.0 | 11.0 | 15.0 | 0.8 | C352J564-60**** | 2.7 | 32.0 | 28.0 | 14.0 | 27.5 | 0.8 | C352J275-B0**** |
| 3.9 | 32.0 | 33.0 | 18.0 | 27.5 | 0.8 | C352J395-B0**** | 0.68 | 17.5 | 19.0 | 11.0 | 15.0 | 0.8 | C352J684-60**** | 3.3 | 32.0 | 33.0 | 18.0 | 27.5 | 0.8 | C352J335-B0**** |
| 4.7 | 32.0 | 33.0 | 18.0 | 27.5 | 0.8 | C352S475-B0**** | 0.15 | 26.5 | 15.0 | 6.0 | 22.5 | 0.6 | C352J154-9A**** | 3.9 | 32.0 | 33.0 | 18.0 | 27.5 | 0.8 | C352J395-B0**** |
| 5.6 | 32.0 | 33.0 | 18.0 | 27.5 | 0.8 | C352S565-B0**** | | | | | | | | | | | | | | |
| 6.8 | 32.0 | 33.0 | 18.0 | 27.5 | 0.8 | C352S685-B0**** | | | | | | | | | | | | | | |
| 8.2 | 32.0 | 33.0 | 18.0 | 27.5 | 0.8 | C352S825-B0**** | | | | | | | | | | | | | | |

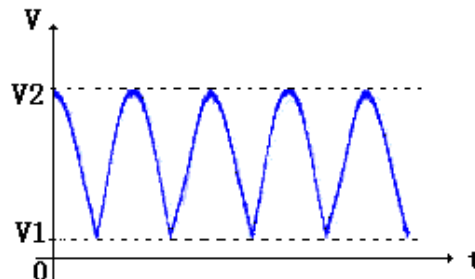
Note: 1. “-” =capacitance tolerance code, M=±20%,K=±10%,J=±5%
 2. “****” =lead form and packaging code (refer to table 1)

■ Max. Current (Ir.m.s.) versus Frequency – Miniature version



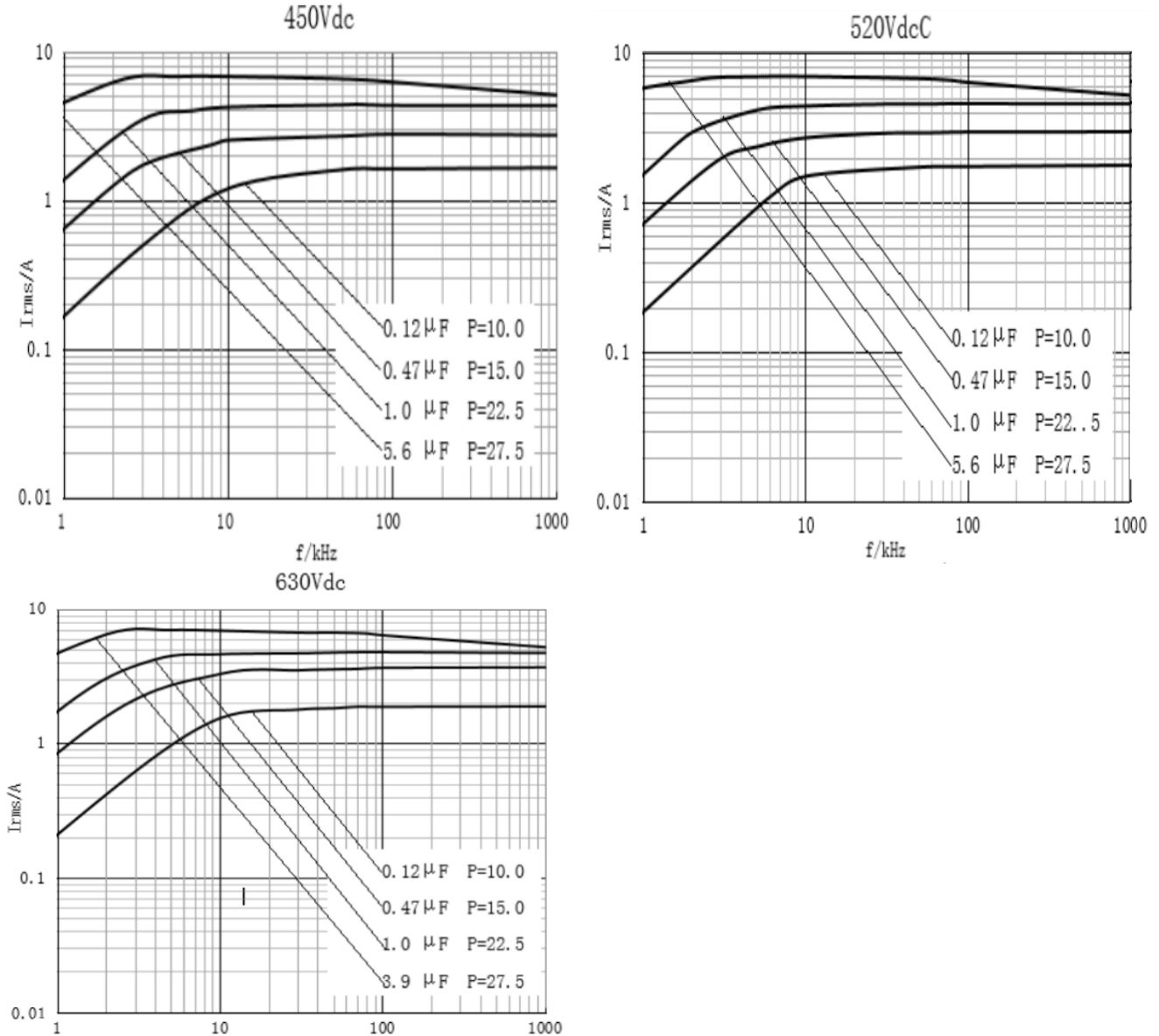
NOTE: 1.sinusoidal wave-form, environment temperature $\leq 85^{\circ}C$, internal temperature rise $\Delta T=10^{\circ}C$, p (pitch) in mm.

2. The series product is only recommended to use in DC-filter or DC-blocking circuits. It means the voltage applied to the capacitors must be unidirectional ripple voltage. The typical voltage curve is as follows reference. If you have any questions for this note, please feel free to contact with our technical engineer.



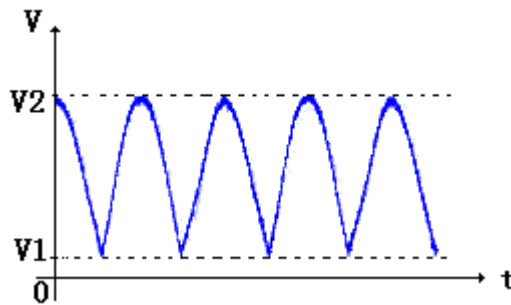
Here: $V_1 \geq 0, V_2 \leq U_R, I_{rms} = 2 \pi f \times C \times (V_2 - V_1) / \sqrt{2}$
 U_R is the rated voltage of the capacitor

■ Max. Current (I_{r.m.s.}) versus Frequency



NOTE: 1. sinusoidal wave-form, environment temperature $\leq 85^{\circ}C$, internal temperature rise $\Delta T=10^{\circ}C$, p (pitch) in mm.

2. The series product is only recommended to use in DC-filter or DC-blocking circuits. It means the voltage applied to the capacitors must be unidirectional ripple voltage. The typical voltage curve is as follows reference. If you have any questions for this note, please feel free to contact with our technical engineer.



Here: $V_1 \geq 0$, $V_2 \leq U_R$, $I_{rms} = 2\pi fC (V_2 - V_1)/\sqrt{2}$
 U_R is the rated voltage of the capacitor

■ Test Method And Performance


| No. | Item | Performance | Test method(IEC 60384-16) |
|-----|-----------------------------|--|--|
| 1 | Solderability | Good quality of tinning | Solder temperature: 245°C ±5°C Immersion time: 2.0s±0.5s |
| 2 | Initial measurement | Capacitance Tgδ: 1kHz, C>1.0μF 10kHz, C≤1.0μF | |
| | Terminal strength | There shall be no visible damage | Tension: 10N(0.6≤φd≤0.8) 20N(φd=1.0) Bend: 5N(0.6≤φd≤0.8) 10N(φd=1.0) The terminals shall be bent 2 times in each direction. |
| | Resistance to solder heat | There shall be no visible damage | Solder temperature:260°C±5°C Immersion time: 10s±1s |
| | Final measurement | Δ C/C ≤ ± 3 % (relative to the initial value) Increase of tgδ: ≤0.004 (10kHz, C≤1.0μF) ≤0.004 (1kHz, C>1.0μF) | |
| 3 | Initial measurement | Capacitance Tgδ: 1kHz, C>1.0μF 10kHz, C≤1.0μF | |
| | Rapid change of temperature | There shall be no evidence of deterioration. | θ _A =-40°C, θ _B =+105°C 5 cycles Duration: t=30min |
| | Vibration | There shall be no evidence of deterioration. | Amplitude 0.75mm or acceleration 98m/s ² (whichever is the smaller severity), f: 10Hz to 500Hz.Three directions, 2h for each direction, total 6h. |
| | Bump | There shall be no evidence of deterioration. | 4 000 times, Acceleration: 390m/s ² ,Pulse duration, 6ms |
| | Final measurement | Δ C/C ≤ ± 3 % (relative to the initial value) Increase of tgδ: ≤0.004 (10kHz, C≤1.0μF) ≤0.004 (1kHz, C>1.0μF) IR: ≥ 50% of the rated value | |
| 4 | Climate sequence | Initial measurement | Capacitance Tgδ: 1kHz, C>1.0μF 10kHz, C≤1.0μF |
| | | Dry heat | +105°C, 16h |
| | | Damp heat, Cyclic | Test Db, Severity: b, the first cycle |
| | | Cold | -40°C, 2h |
| | | Low air pressure | There shall be no permanent breakdown, flashover or other harmful deformation when applying U _R at the last 1 minute. 15°C~35°C, 8.5kPa, 1h |
| | | Damp heat, Cyclic other | Applying U _R for 1 minute after 15 minutes the test finished. Test Db, Severity b, the other cycles, |
| | | Final measurement | There shall be no visible damage, legible marking Δ C/C ≤ ± 5 % (relative to the initial value) Increase of tgδ: ≤0.005 (C≤1.0μF,10kHz) ≤0.005(C>1.0μF,1kHz) I.R.: ≥ 50% of the rated value |

| No. | Item | Performance | Test method(IEC 60384-16) |
|-----|--------------------------|---|--|
| 5 | Damp heat steady state | There shall be no visible damage, legible marking $\Delta C/C \leq \pm 5\%$ (relative to the initial value) Increase of $\text{tg}\delta: \leq 0.002$ (1kHz) I.R.: $\geq 50\%$ of the rated value | Temperature: $40^\circ\text{C} \pm 2^\circ\text{C}$ Humidity: $93 \pm 3\%$ RH Duration: 56 days |
| 6 | Endurance | There shall be no visible damage, legible marking $\Delta C/C \leq \pm 5\%$ (relative to the initial value) Increase of $\text{tg}\delta$: ≤ 0.004 (10kHz, $C \leq 1.0\mu\text{F}$) ≤ 0.004 (1kHz, $C > 1.0\mu\text{F}$) I.R.: $\geq 50\%$ of the rated value | Temperature: $+85^\circ\text{C}$ Voltage: $1.25 \times U_R$ Duration: 1 000h |
| 7 | Charging and discharging | $\Delta C/C \leq \pm 5\%$ (relative to the initial value) Increase of $\text{tg}\delta$: ≤ 0.005 ($C \leq 1.0\mu\text{F}$, 10kHz) ≤ 0.005 ($C > 1.0\mu\text{F}$, 1kHz) I.R.: $\geq 50\%$ of the rated value | Times: 10 000 Duration of charging: 0.5s Duration of discharging: 0.5s Charging voltage: rated voltage U_R Charging resistance: $220/C_N(\Omega)$ Discharging resistance: $U_R \div C_N \div dv/dt(\Omega)$ C_N : rated capacitance (μF) dv/dt value: see P2 |

■ Marking (For example)

| | |
|--|---|
|  104J 630 |  MKP25 684J 630 |
| $P \leq 10\text{mm}$ | $P > 10\text{mm}$ |

Marking Introduction:

|  | Brand | MKP25 | Type |
|---|---------------|------------|-------------------|
| 630 | Rated voltage | 104 684 | Rated capacitance |
| J | Tolerance | — | — |

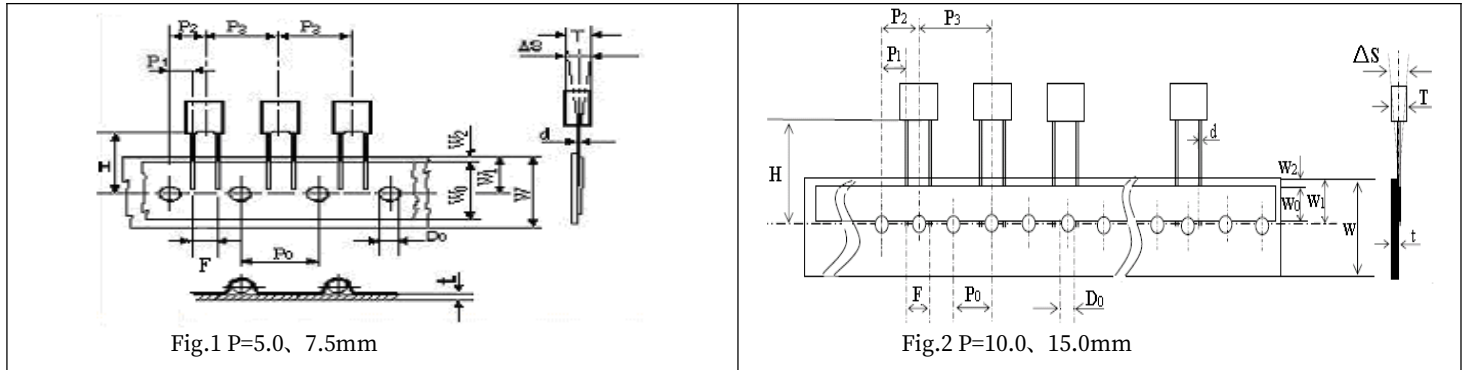
■ Taping specification for box-type capacitors
▲ Outline Drawing


Fig.1 P=5.0, 7.5mm

Fig.2 P=10.0, 15.0mm

▲ Taping Dimensions(mm)

| Technology index title | Code | Dimensions | | | | Tolerance |
|---|---------------|------------|-------|--------|--------|--------------|
| | | P=5.0 | P=7.5 | P=10.0 | P=15.0 | |
| Taping type | — | Fig 1 | Fig 1 | Fig2 | Fig 2 | — |
| Part number Digit12-15 | Ammo- pack | A201 | A301 | A405 | A605 | |
| Taping pitch | P_3 | 12.7 | 12.7 | 25.4 | 25.4 | ± 1.0 |
| Feed hole pitch | P_0 | 12.7 | 12.7 | 12.7 | 12.7 | ± 0.3 |
| Center of wire | P_1 | 3.85 | 2.6 | 7.7 | 5.2 | ± 0.7 |
| Center of body | P_2 | 6.35 | 6.35 | 12.7 | 12.7 | ± 1.3 |
| Pitch of taping wire | F^{**} | 5.0 | 7.5 | 10.0 | 15.0 | +0.6 -0.1 |
| Component alignment | ΔS | 0 | 0 | 0 | 0 | ± 2.0 |
| Height of component from tape center | H^{***} | 18.5 | 18.5 | 18.5 | 18.5 | ± 0.5 |
| Carrier tape width | W | 18.0 | 18.0 | 18.0 | 18.0 | +1.0 -0.5 |
| Hold down tape width | W_0 | 6min | 10min | 10min | 10min | — |
| Hole position | W_1 | 9.0 | 9.0 | 9.0 | 9.0 | ± 0.5 |
| Hold down tape sition | W_2 | 3max | 3max | 3max | 3max | — |
| Feed hole dia. | D_0 | 4.0 | 4.0 | 4.0 | 4.0 | ± 0.2 |
| Tape thickness | t | 0.7 | 0.7 | 0.7 | 0.7 | ± 0.2 |

Note: * $P_0=15\text{mm}$ is also available;

**F can be other lead spacing;

***H=16.5mm is available;

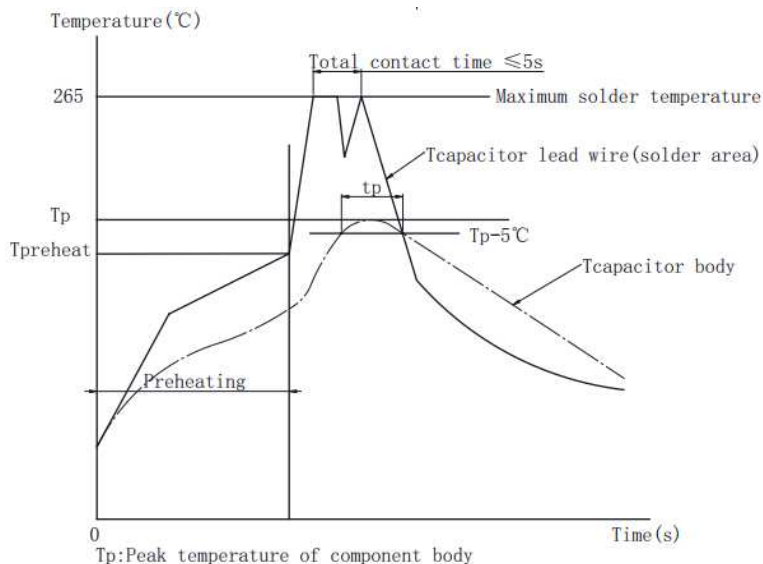
■ Soldering suggestions
▲ Manual soldering

Max. temperature: 350°C, time: 3s

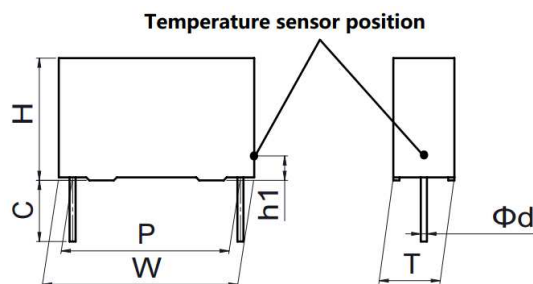
▲ Wave soldering

There are many factors affecting the heating of film capacitor during the wave soldering process, such as: preheating temperature, preheating time, soldering temperature, soldering time, other heat sources influence and so on.

The typical soldering profile is as below:



▲ Because overheating could damage the capacitor, we recommend paying attention to the maximum capacitor temperature and heating time, use temperature sensor to detect the maximum capacitor body temperature.

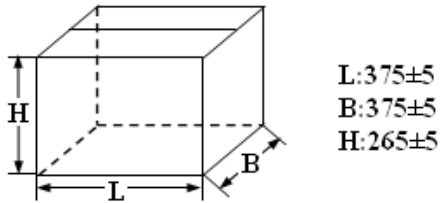


Note: If re-working or dipping twice is necessary, it should be done after the capacitor returns to the normal temperature.

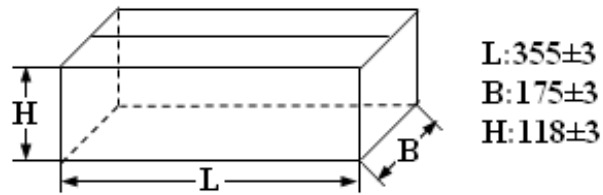
| Temperature sensor position ($T_{\text{capacitor body}}$) | The capacitor body surface of lead side, capacitor height position from PCB: $h_1=2\sim 3\text{mm}$ | | |
|--|--|--------------------------|----------|
| Maximum capacitor body temperature $T_p(^{\circ}\text{C})$ | OPP film $P\leq 15\text{mm}$ | OPP film $P>15\text{mm}$ | PET film |
| | 115 | 120 | 125 |
| Maximum capacitor lead wire temperature ($^{\circ}\text{C}$) | 265 | 265 | 265 |
| Maximum capacitor body heating time $t_p=T_p-5^{\circ}\text{C}$ | 30s | | |

■ Packing box sizes(mm)(example)

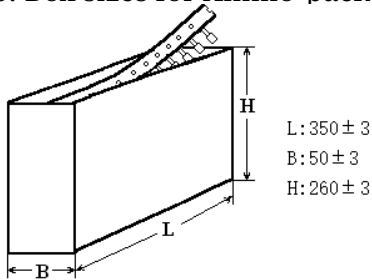
1. Out packing box for bulk



2. Inner packing box for bulk



3. Box sizes for Ammo-pack



■ Storage conditions

▲ It must be noted that the solderability of the terminals may be deteriorated when stored in an atmosphere filled with moisture, dust, or a reactive oxidizing gas.(hydrogen chloride, hydrogen sulfide, sulfuric acid,etc.)

▲ It shouldn't be located in particularly high temperature and high humidity, it must submit to the following conditions(unchanging primal package):

Temperature: -40 °C to 35 °C

Humidity: Average per year ≤70%RH;

For 30 full days randomly distributed throughout the year ≤80%RH

Storage time for tinned lead wire: (from the date marked on the capacitor's body or the label glued to the package) :

Bulk(packed with plastic bag): ≤24 months ;

Taping and line up: ≤12 months