

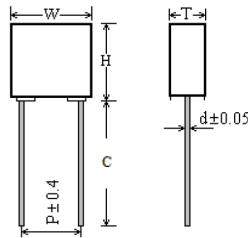


## SPECIFICATION FOR APPROVAL

|               |   |
|---------------|---|
| Product Name  | Box-type Metallized Polyester Film Capacitor(Stacked version) |
| Product Type: | C24(CL23B Series)   |
| Product Code  |   |
| Customer      |   |
| Customer Code |   |
| Issue Date    | 2015-10   |

## Box-type metallized polyester film capacitor (Stacked version)

### ■ Outline Drawing



### ■ Features

- Metallized polyester film, stacked construction
- Plastic case (UL94 V-0), Epoxy resin sealing
- High dv/dt ability

### ■ Typical Applications:

- By-passing, blocking, coupling, decoupling,
- Pulse logic, timing, compact fluorescent lamps.
- Inverter for LCD monitors, automotive DC motor suppression

### ■ Specifications

|  |  |   |                        |
|--|--|---|------------------------|
| Reference Standard   | GB 7332(IEC 60384-2)   |   |                        |
| Climatic Category  | 55/125/56  |   |                        |
| Rated temperature  | 85°C   |   |                        |
| Operating temperature  | -55°C~125°C<br>(+85°C to +125°C: decreasing factor 1.25% per °C for U <sub>R</sub> ) |   |                        |
| Rated Voltage  | 50/63V, 100V, 250V, 400V, 500V, 630V, 700V   |   |                        |
| Capacitance Range  | 0.0010μF ~ 2.2μF   |   |                        |
| Capacitance Tolerance  | ±5%(J), ±10%(K), ±20%(M)   |   |                        |
| Voltage Proof  | 1.4U <sub>R</sub> (5s)   |   |                        |
| Dissipation Factor   | Frequency  | C <sub>N</sub> ≤ 0.1μF  | C <sub>N</sub> > 0.1μF |
|  | 1kHz   | ≤1.0%   | ≤1.0%                  |
|  | 10kHz  | ≤1.5%   | ≤1.5%                  |
|  | 100kHz   | ≤3.0%   | -                      |
| Insulation Resistance  | U <sub>R</sub> > 100V  | ≥3 0000MΩ, C <sub>N</sub> ≤ 0.33μF<br>≥10 000s, C <sub>N</sub> > 0.33μF                                       | (20°C, 100V, 1min)     |
|  | U <sub>R</sub> ≤ 100V  | ≥15 000MΩ, C <sub>N</sub> ≤ 0.33μF<br>≥5 000s, 0.33μF < C <sub>N</sub> ≤ 1μF<br>≥1 000s, C <sub>N</sub> > 1μF | (20°C, 10V, 1min)      |
| Maximum Pulse Rise Time(dV/dt)<br>If the working voltage(U) is lower than the rated voltage(U <sub>R</sub> ),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 <sub>R</sub> /U. | U <sub>R</sub> (V)   | dV/dt (V/μs)  |                        |
|  |  | pattern I   | pattern II             |
|  | 50/63  | 250   | 75                     |
|  | 100  | 300   | 85                     |
|  | 250  | 400   | 100                    |
|  | 400  | 600   | 150                    |
|  | 500  | 700   | 200                    |
|  | 630  | 800   |                        |
| 700  | -  | 250   |                        |

### ■ Part number system

The 18 digits part number is formed as follow:

#### C24 Pattern I (High performance)

|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| C | 2 | 4 |   |   |   |   |   |   | 2  | 0  |    |    |    |    |    |    |    |

#### C24 Pattern II (Reduced size)

|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| C | 2 | 4 |   |   |   |   |   |   | 2  | S  |    |    |    |    |    |    |    |

Digit 1 to 3 Series code

C24=CL23B

Digit 4 to 5 DC rated voltage

1H=50V 1J=63V 2A=100V 2E=250V

2G=400V 2H=500V 2J=630V 1V=700V

Digit 6 to 8 Rated capacitance value

For example : 103=10×10<sup>3</sup>pF=0.01uF

Digit 9 Capacitance tolerance

J=±5%,K=±10%, M=±20%

Digit 10 Lead pitch

2=5.0

Digit 11 Internal use

S=pattern II

Digit 12 to 15 Lead form and packaging code

Digit 16 to 18 Internal use

**Table 1 lead dimensions and packaging code**

| Digit 12 |   | Digit 13 |                                     | Digit 14 |             | Digit 15 |   |
|----------|---|----------|-------------------------------------|----------|-------------|----------|---|
| code     | explanation                                 | code     | explanation                         | code     | explanation | code     | explanation   |
| A        | ammo-pack                                   | 2        | F=5.0mm                             | 0        | straight    | 1        | each cap. among two consecutive holes<br>P3=12.7mm,H=18.5mm (For pitch=5.0mm) |
| C        | straight lead<br>“C” in the<br>figure above | code     | explanation                         |          |             | 0        | Length tolerance ±0.5mm<br>Or standard length                                 |
|          |   | 00       | standard lead length<br>(18mm~22mm) |          |             | 2        |   |
|          |   | 45       | lead length 4.5mm                   |          |             |          |   |
|          |   | 35       | lead length 4.5mm                   |          |             |          |   |
|          |   | 32       | lead length 4.5mm                   |          |             |          |   |

**■ Dimensions(mm)**

|                               |      |      |
|-------------------------------|------|------|
| Capacitor Thickness: T        | ≤3.5 | >3.5 |
| Dimension Tolerance (W, H, T) | ±0.2 | ±0.4 |

**Pattern II (Reduced size)**

| 50Vdc (30Vac)/63Vdc (40Vac) # |     |      |     |     |     |                    |
|-------------------------------|-----|------|-----|-----|-----|--------------------|
| C <sub>N</sub><br>(μF)        | W   | H    | T   | P   | d   | Part number        |
| 0.15                          | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J154-2S****+++ |
| 0.18                          | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J184-2S****+++ |
| 0.22                          | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J224-2S****+++ |
| 0.27                          | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J274-2S****+++ |
| 0.33                          | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C241J334-2S****+++ |
| 0.39                          | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C241J394-2S****+++ |
| 0.47                          | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C241J474-2S****+++ |
| 0.56                          | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C241J564-2S****+++ |
| 0.68                          | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C241J684-2S****+++ |
| 0.82                          | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C241J824-2S****+++ |
| 1.0                           | 7.2 | 10.0 | 5.0 | 5.0 | 0.6 | C241J105-2S****+++ |
| 1.5                           | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C241J155-2S****+++ |
| 2.2                           | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C241J225-2S****+++ |

| 100 Vdc (63Vac)        |     |      |     |     |     |                    |
|------------------------|-----|------|-----|-----|-----|--------------------|
| C <sub>N</sub><br>(μF) | W   | H    | T   | P   | d   | Part number        |
| 0.10                   | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A104-2S****+++ |
| 0.12                   | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A124-2S****+++ |
| 0.15                   | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242A154-2S****+++ |
| 0.18                   | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242A184-2S****+++ |
| 0.22                   | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242A224-2S****+++ |
| 0.27                   | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242A274-2S****+++ |
| 0.33                   | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242A334-2S****+++ |
| 0.39                   | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242A394-2S****+++ |
| 0.47                   | 7.2 | 10.0 | 5.0 | 5.0 | 0.6 | C242A474-2S****+++ |
| 0.56                   | 7.2 | 10.0 | 5.0 | 5.0 | 0.6 | C242A564-2S****+++ |
| 0.68                   | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242A684-2S****+++ |
| 0.82                   | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242A824-2S****+++ |
| 1.0                    | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242A105-2S****+++ |

| 250 Vdc (140Vac)       |     |      |     |     |     |                    |
|------------------------|-----|------|-----|-----|-----|--------------------|
| C <sub>N</sub><br>(μF) | W   | H    | T   | P   | d   | Part number        |
| 0.022                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242E223-2S****+++ |
| 0.027                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242E273-2S****+++ |
| 0.033                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242E333-2S****+++ |
| 0.039                  | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242E393-2S****+++ |
| 0.047                  | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242E473-2S****+++ |
| 0.056                  | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242E563-2S****+++ |
| 0.068                  | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242E683-2S****+++ |
| 0.082                  | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242E823-2S****+++ |
| 0.10                   | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242E104-2S****+++ |
| 0.12                   | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242E124-2S****+++ |
| 0.15                   | 7.2 | 10.0 | 5.0 | 5.0 | 0.6 | C242E154-2S****+++ |
| 0.18                   | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242E184-2S****+++ |
| 0.22                   | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242E224-2S****+++ |

| 400 Vdc (160Vac)       |     |      |     |     |     |                    |
|------------------------|-----|------|-----|-----|-----|--------------------|
| C <sub>N</sub><br>(μF) | W   | H    | T   | P   | d   | Part number        |
| 0.0056                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242G562-2S****+++ |
| 0.0068                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242G682-2S****+++ |
| 0.0082                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242G822-2S****+++ |
| 0.010                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242G103-2S****+++ |
| 0.012                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242G123-2S****+++ |
| 0.015                  | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242G153-2S****+++ |
| 0.018                  | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242G183-2S****+++ |
| 0.022                  | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242G223-2S****+++ |
| 0.027                  | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242G273-2S****+++ |
| 0.033                  | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242G333-2S****+++ |
| 0.039                  | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242G393-2S****+++ |
| 0.047                  | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242G473-2S****+++ |
| 0.051                  | 7.2 | 10.0 | 5.0 | 5.0 | 0.6 | C242G513-2S****+++ |
| 0.056                  | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242G563-2S****+++ |
| 0.068                  | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242G683-2S****+++ |
| 0.082                  | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242G823-2S****+++ |
| 0.10                   | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242G104-2S****+++ |

- Note: 1. “-”=capacitance tolerance code, M=±20%,K=±10%,J=±5%  
 2. “\*\*\*\*”=lead form and packing code (refer to table 1).  
 3. “#” when the rated voltage is 50Vdc,the digit 4~5 is 1H.

### Pattern II (Reduced size)

| 500 Vdc/630(220Vac)#   |     |      |     |     |     |                    |
|------------------------|-----|------|-----|-----|-----|--------------------|
| C <sub>N</sub><br>(μF) | W   | H    | T   | P   | d   | Part number        |
| 0.0018                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242J182-2S****+++ |
| 0.0022                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242J222-2S****+++ |
| 0.0027                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242J272-2S****+++ |
| 0.0033                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242J332-2S****+++ |
| 0.0039                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242J392-2S****+++ |
| 0.0047                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242J472-2S****+++ |
| 0.0056                 | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242J562-2S****+++ |
| 0.0068                 | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242J682-2S****+++ |
| 0.0082                 | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242J822-2S****+++ |
| 0.010                  | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242J103-2S****+++ |
| 0.012                  | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242J123-2S****+++ |
| 0.015                  | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242J153-2S****+++ |
| 0.018                  | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242J183-2S****+++ |
| 0.022                  | 7.2 | 10.0 | 5.0 | 5.0 | 0.6 | C242J223-2S****+++ |
| 0.027                  | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242J273-2S****+++ |
| 0.033                  | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242J333-2S****+++ |

| 700 Vdc (250Vac)       |     |      |     |     |     |                    |
|------------------------|-----|------|-----|-----|-----|--------------------|
| C <sub>N</sub><br>(μF) | W   | H    | T   | P   | d   | Part number        |
| 0.0010                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241V102-2S****+++ |
| 0.0012                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241V122-2S****+++ |
| 0.0015                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241V152-2S****+++ |
| 0.0018                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241V182-2S****+++ |
| 0.0022                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241V222-2S****+++ |
| 0.0027                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241V272-2S****+++ |
| 0.0033                 | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C241V332-2S****+++ |
| 0.0039                 | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C241V392-2S****+++ |
| 0.0047                 | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C241V472-2S****+++ |
| 0.0056                 | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C241V562-2S****+++ |
| 0.0068                 | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C241V682-2S****+++ |
| 0.0082                 | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C241V822-2S****+++ |
| 0.010                  | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C241V103-2S****+++ |
| 0.012                  | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C241V123-2S****+++ |
| 0.015                  | 7.2 | 10.0 | 5.0 | 5.0 | 0.6 | C241V153-2S****+++ |
| 0.018                  | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C241V183-2S****+++ |
| 0.022                  | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C241V223-2S****+++ |

- Note:
1. “-”=capacitance tolerance code, M=±20%,K=±10%,J=±5%
  2. “\*\*\*\*”=lead dimensions and packing mode code (refer to table 1).
  3. “#” when the rated voltage is 500Vdc,the digit 4~5 is 2H.

### Pattern I (High performance)

| 50Vdc (30Vac)/63Vdc (40Vac) # |     |      |     |     |     |                    |
|-------------------------------|-----|------|-----|-----|-----|--------------------|
| C <sub>N</sub><br>(μF)        | W   | H    | T   | P   | d   | Part number        |
| 0.0010                        | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J102-20****+++ |
| 0.0012                        | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J122-20****+++ |
| 0.0015                        | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J152-20****+++ |
| 0.0018                        | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J182-20****+++ |
| 0.0022                        | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J222-20****+++ |
| 0.0027                        | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J272-20****+++ |
| 0.0033                        | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J332-20****+++ |
| 0.0039                        | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J392-20****+++ |
| 0.0047                        | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J472-20****+++ |
| 0.0056                        | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J562-20****+++ |
| 0.0068                        | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J682-20****+++ |
| 0.0082                        | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J822-20****+++ |
| 0.010                         | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J103-20****+++ |
| 0.012                         | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J123-20****+++ |
| 0.015                         | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J153-20****+++ |
| 0.018                         | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J183-20****+++ |
| 0.022                         | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J223-20****+++ |
| 0.027                         | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J273-20****+++ |
| 0.033                         | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J333-20****+++ |
| 0.039                         | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J393-20****+++ |
| 0.047                         | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J473-20****+++ |
| 0.056                         | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J563-20****+++ |
| 0.068                         | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J683-20****+++ |
| 0.082                         | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J823-20****+++ |
| 0.10                          | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J104-20****+++ |
| 0.12                          | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J124-20****+++ |
| 0.15                          | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C241J154-20****+++ |
| 0.18                          | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C241J184-20****+++ |
| 0.22                          | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C241J224-20****+++ |
| 0.27                          | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C241J274-20****+++ |
| 0.33                          | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C241J334-20****+++ |
| 0.39                          | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C241J394-20****+++ |
| 0.47                          | 7.2 | 10.0 | 5.0 | 5.0 | 0.6 | C241J474-20****+++ |
| 0.56                          | 7.2 | 10.0 | 5.0 | 5.0 | 0.6 | C241J564-20****+++ |
| 0.68                          | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C241J684-20****+++ |
| 0.82                          | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C241J824-20****+++ |
| 1.0                           | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C241J105-20****+++ |

| 100 Vdc (63Vac)        |     |      |     |     |     |                    |
|------------------------|-----|------|-----|-----|-----|--------------------|
| C <sub>N</sub><br>(μF) | W   | H    | T   | P   | d   | Part number        |
| 0.0010                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A102-20****+++ |
| 0.0012                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A122-20****+++ |
| 0.0015                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A152-20****+++ |
| 0.0018                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A182-20****+++ |
| 0.0022                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A222-20****+++ |
| 0.0027                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A272-20****+++ |
| 0.0033                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A332-20****+++ |
| 0.0039                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A392-20****+++ |
| 0.0047                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A472-20****+++ |
| 0.0056                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A562-20****+++ |
| 0.0068                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A682-20****+++ |
| 0.0082                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A822-20****+++ |
| 0.010                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A103-20****+++ |
| 0.012                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A123-20****+++ |
| 0.015                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A153-20****+++ |
| 0.018                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A183-20****+++ |
| 0.022                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A223-20****+++ |
| 0.027                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A273-20****+++ |
| 0.033                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A333-20****+++ |
| 0.039                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A393-20****+++ |
| 0.047                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A473-20****+++ |
| 0.056                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A563-20****+++ |
| 0.068                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A683-20****+++ |
| 0.082                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A823-20****+++ |
| 0.10                   | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242A104-20****+++ |
| 0.12                   | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242A124-20****+++ |
| 0.15                   | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242A154-20****+++ |
| 0.18                   | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242A184-20****+++ |
| 0.22                   | 7.2 | 10.0 | 5.0 | 5.0 | 0.6 | C242A224-20****+++ |
| 0.27                   | 7.2 | 10.0 | 5.0 | 5.0 | 0.6 | C242A274-20****+++ |
| 0.33                   | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242A334-20****+++ |
| 0.39                   | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242A394-20****+++ |
| 0.47                   | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242A474-20****+++ |
| 0.56                   | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242A564-20****+++ |

- Note:
1. “-”=capacitance tolerance code, M=±20%,K=±10%,J=±5%
  2. “\*\*\*\*”=lead form and packing code (refer to table 1).
  3. “#” when the rated voltage is 50Vdc,the digit 4~5 is 1H.

### Pattern I (High performance)

| 250 Vdc (160Vac)       |     |      |     |     |     |                    |
|------------------------|-----|------|-----|-----|-----|--------------------|
| C <sub>N</sub><br>(μF) | W   | H    | T   | P   | d   | Part number        |
| 0.0010                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242E102-20****+++ |
| 0.0012                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242E122-20****+++ |
| 0.0015                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242E152-20****+++ |
| 0.0018                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242E182-20****+++ |
| 0.0022                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242E222-20****+++ |
| 0.0027                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242E272-20****+++ |
| 0.0033                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242E332-20****+++ |
| 0.0039                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242E392-20****+++ |
| 0.0047                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242E472-20****+++ |
| 0.0056                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242E562-20****+++ |
| 0.0068                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242E682-20****+++ |
| 0.0082                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242E822-20****+++ |
| 0.010                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242E103-20****+++ |
| 0.012                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242E123-20****+++ |
| 0.015                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242E153-20****+++ |
| 0.018                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242E183-20****+++ |
| 0.022                  | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242E223-20****+++ |
| 0.027                  | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242E273-20****+++ |
| 0.033                  | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242E333-20****+++ |
| 0.039                  | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242E393-20****+++ |
| 0.047                  | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242E473-20****+++ |
| 0.056                  | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242E563-20****+++ |
| 0.068                  | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242E683-20****+++ |
| 0.082                  | 7.2 | 10.0 | 5.0 | 5.0 | 0.6 | C242E823-20****+++ |
| 0.10                   | 7.2 | 10.0 | 5.0 | 5.0 | 0.6 | C242E104-20****+++ |
| 0.12                   | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242E124-20****+++ |
| 0.15                   | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242E154-20****+++ |

| 400 Vdc (200Vac)       |     |      |     |     |     |                    |
|------------------------|-----|------|-----|-----|-----|--------------------|
| C <sub>N</sub><br>(μF) | W   | H    | T   | P   | d   | Part number        |
| 0.0010                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242G102-20****+++ |
| 0.0012                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242G122-20****+++ |
| 0.0015                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242G152-20****+++ |
| 0.0018                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242G182-20****+++ |
| 0.0022                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242G222-20****+++ |
| 0.0027                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242G272-20****+++ |
| 0.0033                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242G332-20****+++ |
| 0.0039                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242G392-20****+++ |
| 0.0047                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242G472-20****+++ |
| 0.0056                 | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242G562-20****+++ |
| 0.0068                 | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242G682-20****+++ |
| 0.0082                 | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242G822-20****+++ |
| 0.010                  | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242G103-20****+++ |
| 0.012                  | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242G123-20****+++ |
| 0.015                  | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242G153-20****+++ |
| 0.018                  | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242G183-20****+++ |
| 0.022                  | 7.2 | 10.0 | 5.0 | 5.0 | 0.6 | C242G223-20****+++ |
| 0.027                  | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242G273-20****+++ |
| 0.033                  | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242G333-20****+++ |
| 0.039                  | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242G393-20****+++ |
| 0.047                  | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242G473-20****+++ |

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

### Pattern I (High performance)

| 500 Vdc (220Vac)       |     |      |     |     |     |                    |
|------------------------|-----|------|-----|-----|-----|--------------------|
| C <sub>N</sub><br>(μF) | W   | H    | T   | P   | d   | Part number        |
| 0.0010                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242H102-20****+++ |
| 0.0012                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242H122-20****+++ |
| 0.0015                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242H152-20****+++ |
| 0.0018                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242H182-20****+++ |
| 0.0022                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242H222-20****+++ |
| 0.0027                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242H272-20****+++ |
| 0.0033                 | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242H332-20****+++ |
| 0.0039                 | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242H392-20****+++ |
| 0.0047                 | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242H472-20****+++ |
| 0.0056                 | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242H562-20****+++ |
| 0.0068                 | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242H682-20****+++ |
| 0.0082                 | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242H822-20****+++ |
| 0.010                  | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242H103-20****+++ |
| 0.012                  | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242H123-20****+++ |
| 0.015                  | 7.2 | 10.0 | 5.0 | 5.0 | 0.6 | C242H153-20****+++ |
| 0.018                  | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242H183-20****+++ |
| 0.022                  | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242H223-20****+++ |
| 0.027                  | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242H273-20****+++ |

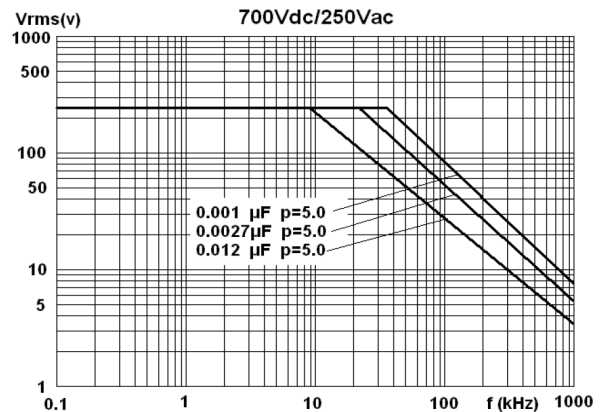
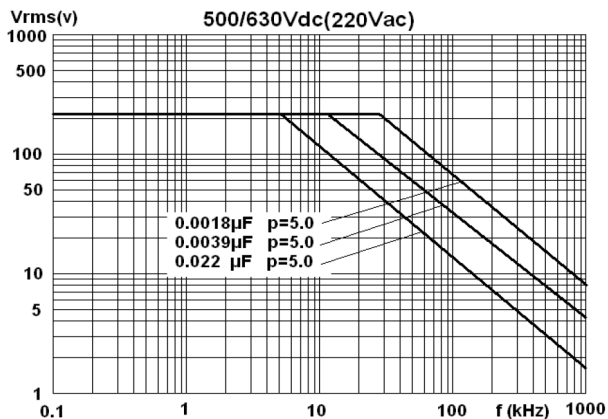
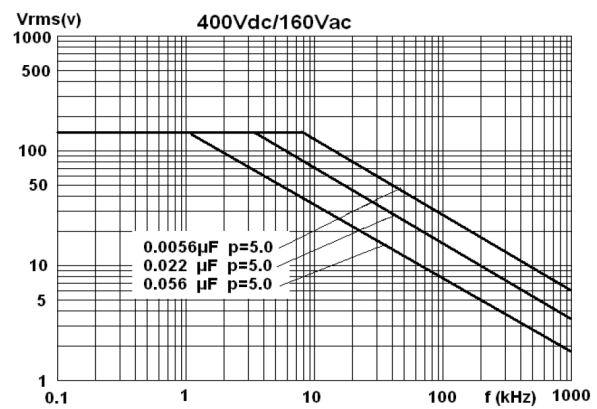
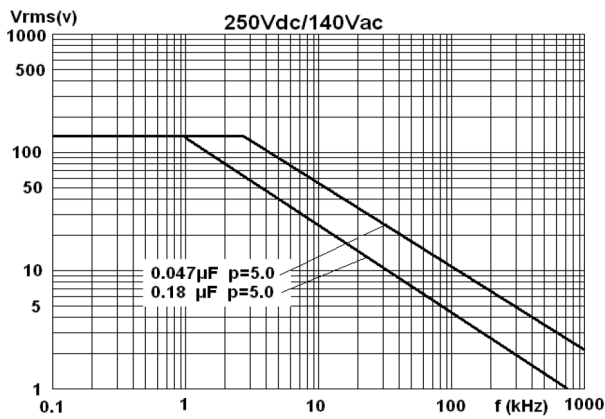
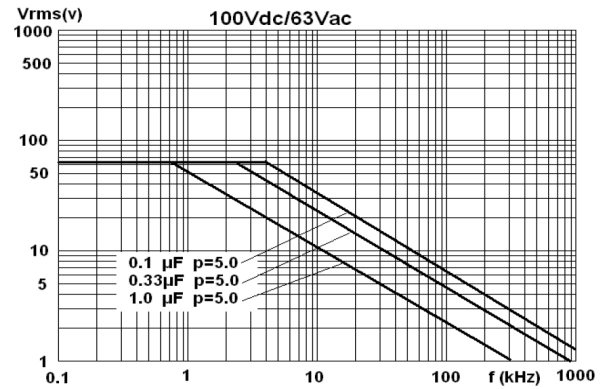
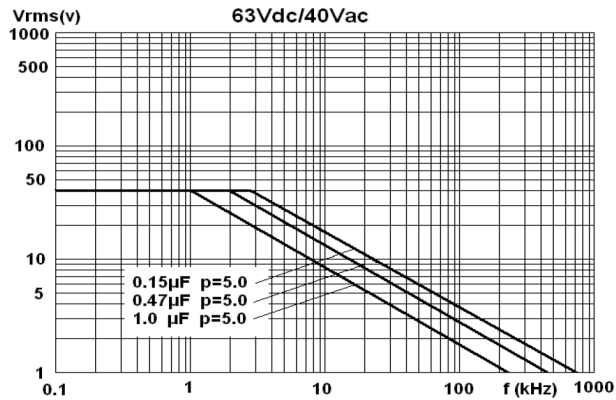
| 630 Vdc (220Vac)       |     |      |     |     |     |                    |
|------------------------|-----|------|-----|-----|-----|--------------------|
| C <sub>N</sub><br>(μF) | W   | H    | T   | P   | d   | Part number        |
| 0.0010                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242J102-20****+++ |
| 0.0012                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242J122-20****+++ |
| 0.0015                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242J152-20****+++ |
| 0.0018                 | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242J182-20****+++ |
| 0.0022                 | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242J222-20****+++ |
| 0.0027                 | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242J272-20****+++ |
| 0.0033                 | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242J332-20****+++ |
| 0.0039                 | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242J392-20****+++ |
| 0.0047                 | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242J472-20****+++ |
| 0.0056                 | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242J562-20****+++ |
| 0.0068                 | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242J682-20****+++ |
| 0.0082                 | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242J822-20****+++ |
| 0.010                  | 7.2 | 10.0 | 5.0 | 5.0 | 0.6 | C242J103-20****+++ |
| 0.012                  | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242J123-20****+++ |
| 0.015                  | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242J153-20****+++ |
| 0.018                  | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242J183-20****+++ |

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



## MAX. VOLTAGE(Vr.m.s) VERSUS FREQUENCY

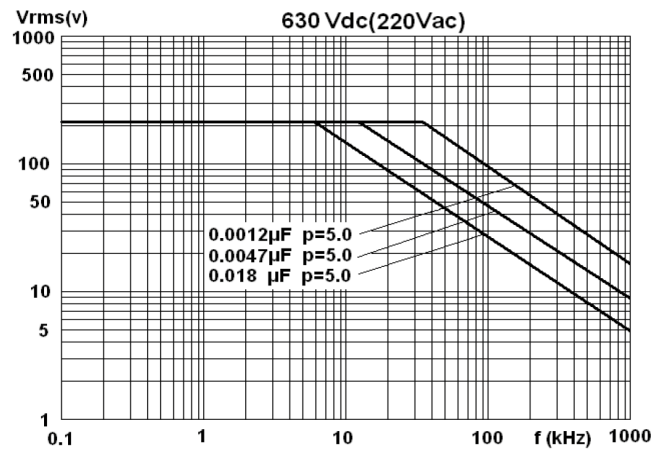
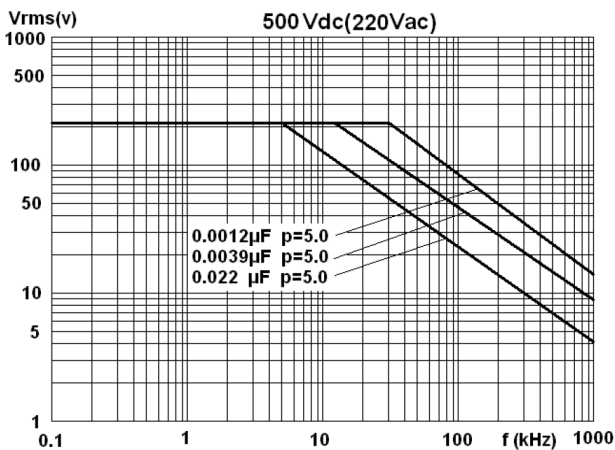
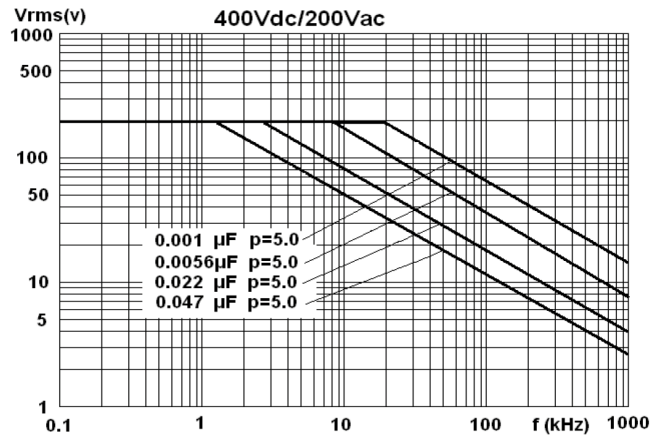
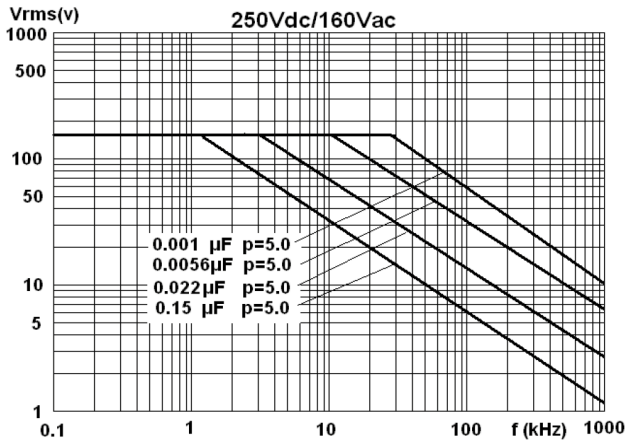
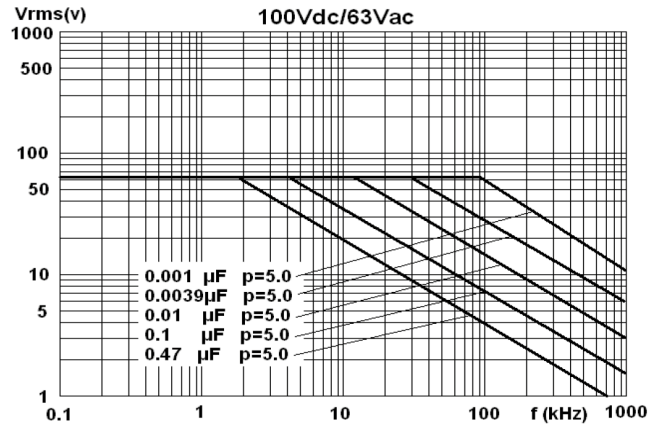
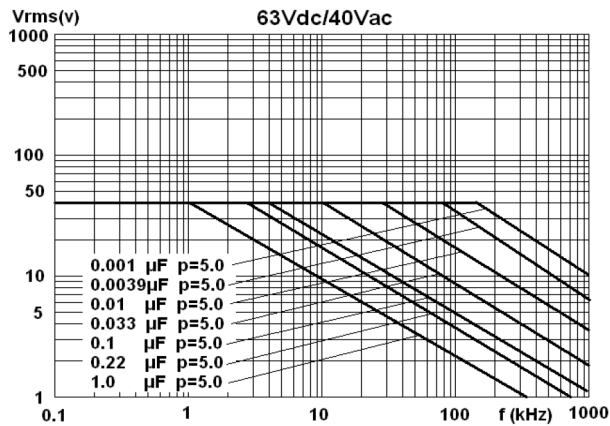
Pattern II (Reduced sized)



Note: sinusoidal wave-form、 environment temperature  $\leq 85^{\circ}\text{C}$ , internal temperature rise  $\Delta T=15^{\circ}\text{C}$ , p (pitch) in mm..

## MAX. VOLTAGE(Vr.m.s) VERSUS FREQUENCY

Pattern I (High performance)



Note: sinusoidal wave-form、environment temperature  $\leq 85^{\circ}\text{C}$ , internal temperature rise  $\Delta T=15^{\circ}\text{C}$ , p (pitch) in mm..

## ■ Test Method And Performance

| No. | Item                               | Performance   | Test method (IEC60384-2)  |
|-----|------------------------------------|---|---|
| 1   | Capacitance tolerance              | J( $\pm 5\%$ ), K( $\pm 10\%$ ), M( $\pm 20\%$ )  | 1kHz, 3%U <sub>R</sub> (Vrms)max.   |
| 2   | Tangent of the loss angle          | tg $\delta \leq 0.010$ (1kHz)<br>tg $\delta \leq 0.015$ (10kHz)<br>tg $\delta \leq 0.030$ (100kHz, C<0.1 $\mu$ F)   | 1KHz or 10 KHz or 100 KHz<br>$\leq 3\%U_R$ (Vrms) or 1 Vrms(whichever is the minor)   |
| 3   | Dielectric strength                | There shall be no breakdown or flashover.   | 1.4U <sub>R</sub> , 5s  |
| 4   | Insulation resistance              | U <sub>R</sub> $\leq 100V$ $\geq 15\ 000M\Omega$ , C <sub>N</sub> $\leq 0.33\mu F$<br>$\geq 5\ 000s$ , 0.33 $\mu F < C_N \leq 1\mu F$<br>$\geq 1\ 000s$ , C <sub>N</sub> $> 1\mu F$<br>U <sub>R</sub> $> 100V$ $\geq 3\ 000M\Omega$ , C <sub>N</sub> $\leq 0.33\mu F$<br>$\geq 10\ 000s$ , C <sub>N</sub> $> 0.33\mu F$ , | U <sub>R</sub> $\leq 100V$ , Charging voltage 10V<br>U <sub>R</sub> $> 100V$ , Charging voltage 100V<br>20°C, measuring after applying voltage for 1 minute   |
| 5   | Solderability                      | Good quality of tinning   | Solder temperature:245°C $\pm 5^\circ C$<br>Immersion time: 2.0s $\pm 0.5s$   |
| 6   | Initial measurement                | Capacitance, Tg $\delta$ (10kHz)  |   |
|     | Terminal strength                  | There shall be no visible damage  | Tension U <sub>a1</sub> :<br>Pull: $\phi d=0.5mm, 5N$ ;<br>$\phi d=0.6mm, 10N$<br>Bend U <sub>b</sub> :<br>The pull of bend: $\phi d=0.5mm, 2.5N$<br>$\phi d=0.6mm, 5N$<br>The terminals shall be bent 2 times in each direction. |
|     | Resistance to solder heat          | There shall be no visible damage  | Solder temperature:260°C $\pm 5^\circ C$<br>Immersion time: 10s $\pm 1s$  |
|     | Final measurement                  | $\Delta C/C \leq \pm 2\%$ (relative to the initial value)<br>Increase of tg $\delta$ : $\leq 0.003$ (10kHz)   |   |
| 7   | Component's resistance of solvents | The dimensions shall reach the requirement of Table 1, and the change of capacitor weight shall not beyond 1%.  | Solvent: Industrial isopropanol.<br>Solvent temperature:23°C $\pm 5^\circ C$<br>Immersion time:5min $\pm 0.5min$<br>Reverting time:48h  |
| 8   | Initial measurement                | Capacitance, Tg $\delta$ (10kHz)  |   |
|     | Rapid change of temperature        | There shall be no evidence of deterioration.  | $\theta_A = -55^\circ C$ , $\theta_B = +125^\circ C$ 5 cycles,<br>Duration: t=30min   |
|     | Vibration                          | There shall be no evidence of deterioration.  | Amplitude 0.75mm or acceleration 98m/s <sup>2</sup> (whichever is the smaller severity), f: 10Hz to 500Hz.Three directions, 2h foreach direction, total 6h.   |
|     | Bump                               | There shall be no evidence of deterioration.  | 4 000 times, Acceleration: 390m/s <sup>2</sup> ,Pulse duration, 6ms   |
|     | Final measurement                  | $\Delta C/C \leq \pm 5\%$ (relative to the initial value)<br>Increase of tg $\delta$ :<br>$\leq 0.003$ (10kHz)<br>IR: $\geq 50\%$ of the rated value  |   |
| 9   | climate sequence                   | Initial measurement   | Capacitance, Tg $\delta$ (10kHz)  |
|     |                                    | Dry heat  | +125°C,16h  |

| No. | Item                       | Performance  | Test method (IEC60384-2)  |
|-----|----------------------------|--|---|
| 9   | Damp heat, Cyclic          |  | Test Db, Severity: b, the first cycle   |
|     | Cold                       |  | -55°C, 2h   |
|     | Low air pressure           | There shall be no permanent break down, 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    |  | Test Db, Severity b, the other cycles, Applying $U_R$ for 1 minute after the test finished.   |
|     | Final measurement          | There shall be no evidence of deterioration and the marking shall be legible.<br>$\Delta C/C \leq \pm 5\%$ (relative to the initial value)<br>Increase of $\text{tg}\delta$ : $\leq 0.005$ (10kHz)<br>IR: $\geq 50\%$ of the rated value   |   |
| 10  | Damp heat steady state     | There shall be no evidence of deterioration and the marking shall be legible.<br>$\Delta C/C \leq \pm 5\%$ (relative to the initial value)<br>Increase of $\text{tg}\delta \leq 0.005$ (10kHz)<br>IR: $\geq 50\%$ of the rated value   | Temperature: $40^\circ\text{C} \pm 2^\circ\text{C}$<br>Humidity: $93 \pm 3\%$ RH<br>Duration: 56 days   |
| 11  | Endurance                  | There shall be no evidence of deterioration and the marking shall be legible.<br>$\Delta C/C \leq \pm 5\%$ (relative to the initial value)<br>Increase of $\text{tg}\delta$ :<br>$\leq 0.003$ (10kHz)<br>IR: $\geq 50\%$ of the rated value  | Temperature: $+85^\circ\text{C}/+125^\circ\text{C}$<br>Voltage: $1.25 \times U_R / 1.25 \times U_c$<br>( $U_c = 0.5U_R$ )<br>Duration: 2 000h   |
| 12  | Temperature characteristic | Measuring capacitance at test point b, d, f:<br>Characteristic at lower category temperature $-55^\circ\text{C}$ :<br>$-10\% \leq (C_b - C_d) / C_d \leq 0\%$<br>Characteristic at upper category temperature $+105^\circ\text{C}$ :<br>$0\% \leq (C_f - C_d) / C_d \leq +10\%$<br>I.R. (test at point f):<br>$U_R \leq 100\text{V}$ : $\geq 75\text{M}\Omega$ ( $C \leq 0.33\mu\text{F}$ )<br>$\geq 25\text{s}$ ( $C > 0.33\mu\text{F}$ )<br>$U_R > 100\text{V}$ : $\geq 150\text{M}\Omega$ ( $C \leq 0.33\mu\text{F}$ )<br>$\geq 50\text{s}$ ( $C > 0.33\mu\text{F}$ ) | Static method: The Capacitors should be kept at the following temperature in turn:<br>a( $20 \pm 2$ ) °C, b( $-55 \pm 3$ ) °C, d( $20 \pm 2$ ) °C, f( $+105 \pm 2$ ) °C, g( $20 \pm 2$ ) °C |

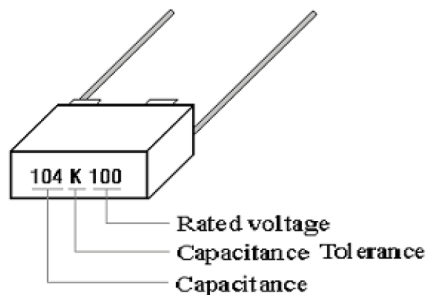
| No. | Item                     | Performance  | Test method (IEC60384-2)   |
|-----|--------------------------|--|--|
| 13  | Charging and discharging | $\Delta C/C \leq \pm 5\%$ (relative to the initial value)<br>Increase of $\text{tg}\delta$ :<br>$\leq 0.003$ (10kHz, $C \leq 1.0\mu\text{F}$ )<br>$\leq 0.002$ (1kHz, $C > 1.0\mu\text{F}$ )<br>IR: $\geq 50\%$ of the rated value | Times: 10 000<br>Duration of charging: 0.5s<br>Duration of discharging: 0.5s<br>Charging voltage: rated voltage<br>Charging resistance: $220/C_N(\Omega)$<br>Discharging resistance:<br>$R = 10/C_N(\Omega)$ or $20\Omega$ (whichever is the greater)<br>$C_N$ : rated capacitance ( $\mu\text{F}$ ) |

Note: Please test it follow the serial number.

■ **Quality ensuring test (before shipment):**

| Inspection item (each batch) | Inspection level (GB 2828) |       |
|------------------------------|----------------------------|-------|
|                              | IL                         | AQL   |
| Appearance inspection        | S-4                        | 1.5%  |
| Dimensions                   |                            |       |
| Capacitance                  | II                         | 0.65% |
| Tangent of the loss angle    |                            |       |
| Dielectric strength          |                            |       |
| Insulation resistance        |                            |       |
| Solderability                | S-3                        | 2.5%  |

■ **Marking**



■ Taping specification for box-type capacitor

▲ Outline Drawing

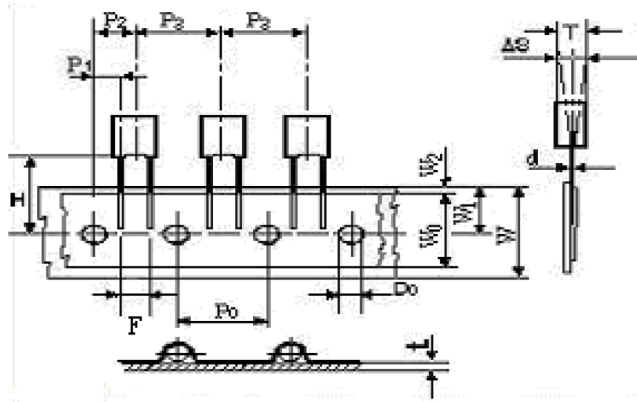


Fig 1

▲ Taping Dimensions(mm)

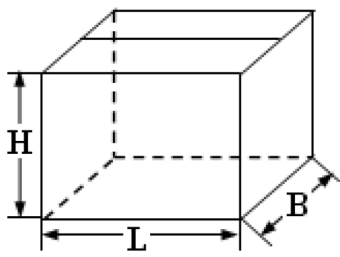
| Technology index title                  | Code           | Dimensions |              |
|---|----------------|------------|--------------|
|   |                | P=5.0      | Tolerance    |
| Taping type                             | —              | Fig 1      | —            |
| Part number<br>Digit12-15               | Ammo-<br>pack  | A201       |              |
| Taping pitch                            | P <sub>3</sub> | 12.7       | ±1.0         |
| Feed hole pitch                         | P <sub>0</sub> | 12.7       | ±0.3         |
| Center of wire                          | P <sub>1</sub> | 3.85       | ±0.7         |
| Center of body                          | P <sub>2</sub> | 6.35       | ±1.3         |
| Pitch of taping wire                    | F              | 5.0        | +0.6<br>-0.1 |
| Component alignment                     | △S             | 0          | ±2.0         |
| Height of component from<br>tape center | H              | 18.5       | ±0.5         |
| Carrier tape width                      | W              | 18.0       | +1.0<br>-0.5 |
| Hold down tape width                    | W <sub>0</sub> | 6min       | —            |
| Hole position                           | W <sub>1</sub> | 9.0        | ±0.5         |
| Hold down tape sition                   | W <sub>2</sub> | 3max       | —            |
| Feed hole dia.                          | D <sub>0</sub> | 4.0        | ±0.2         |
| Tape thickness                          | t              | 0.7        | ±0.2         |

▲ Packing Quantity

| Pitch<br>(mm) | Box<br>thickness<br>T(mm) | Ammo-pack<br>(pcs/box) |        |
|---------------|---------------------------|------------------------|--------|
|               |                           | Domestic               | Export |
| 5.0           | 2.5                       | 2 500                  | 2 000  |
|               | 3.5                       | 1 700                  | 1 500  |
|               | 4.5                       | 1 400                  | 1 300  |
|               | 5.0                       | 1 200                  | 1 000  |
|               | 6.0                       | 1 000                  | 800    |

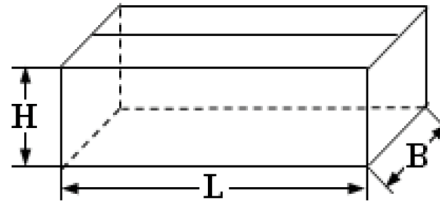
■ Packing box sizes(mm)

1. Out packing box for bulk



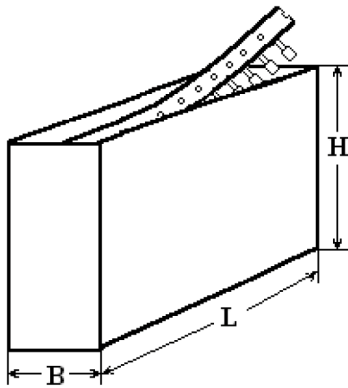
L:375±5  
B:375±5  
H:265±5

2. Inner packing box for bulk



L:355±3  
B:175±3  
H:118±3

3. Box sizes for Ammo-pack



L:330±3  
B:48±3  
H:260±3