



# SPECIFICATION FOR APPROVAL

File No.: Q/FRK 0.GS.E.C6A-F07

|               |                                      |
|---------------|--------------------------------------|
| Product Name  | A.C.output filter capacitors for PCB |
| Product Type  | C6A                                  |
| Product Code  |                                      |
| Customer      |                                      |
| Customer Code |                                      |
| Issue Date    | 2015-9                               |



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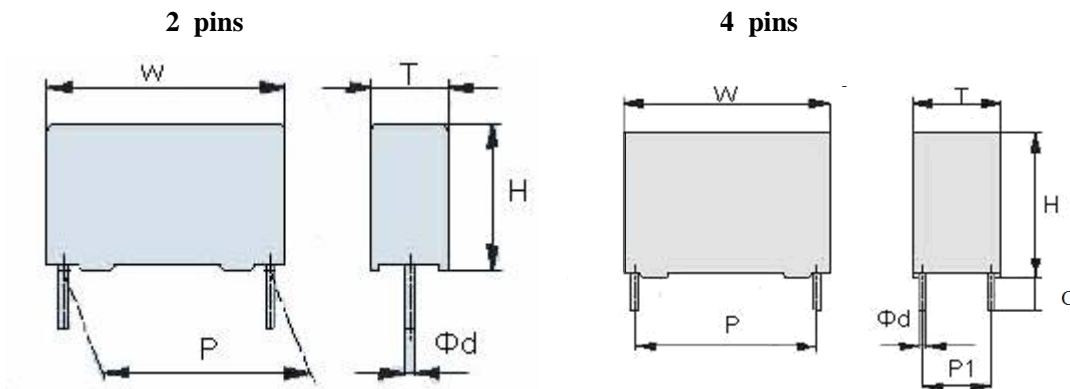
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**Revision record**

| No. | Revision description | Recorder | Updated date | Version |
|-----|----------------------|----------|--------------|---------|
|     |                      |          |              |         |
|     |                      |          |              |         |
|     |                      |          |              |         |

## A.C.output filter capacitors for PCB

### ■ Outline Drawing



### ■ Features

- Self-Healing
- Metallized polypropylene
- Suitable for small power AC output filter, i.e. UPS, Solar Photovoltaic DC/AC inverter with LCL filter.

### ■ Safety Approval

|   |  |                  |   |
|---|--|------------------|---|
| ● |  | TUV<br>Rheinland | EN 61071:2007, EN 61881-1:2011, $U_{rms}$ : 180Vac~500Vac, $U_N$ : 250Vac~700Vac<br>0.22 $\mu$ F~60 $\mu$ F, -40/85 $^{\circ}$ C<br>Certificate No.: R 50266136 |
| ● |  | UL/CUL           | UL 810, CSA C22.2.No190 capacitors, Construction Only, Max.660Vac,90 $^{\circ}$ C<br>File No.: E256238,CCN:CZDS2/8  |

### ■ Specifications

|  |   |                          |                          |                           |
|--|---|--------------------------|--------------------------|---------------------------|
| Reference Standard                       | GB/T 17702, IEC 61071   |                          |                          |                           |
| Climatic Category                        | 40/85/56  |                          |                          |                           |
| Max operating Temperature Range(Case)    | -40 $^{\circ}$ C ~ +105 $^{\circ}$ C<br>85 $^{\circ}$ C (+85 $^{\circ}$ C to +105 $^{\circ}$ C: decreasing factor 1.5% per $^{\circ}$ C for $U_{rms}$ ) |                          |                          |                           |
| Rated RMS Voltage ( $U_{rms}$ )          | 180Vac  | 250Vac                   | 300Vac                   | 350Vac                    |
| Rated AC Voltage ( $U_N$ )               | 250Vac  | 350Vac                   | 425Vac                   | 480Vac                    |
| Maximum continuous DC voltage            | 300Vdc  | 475Vdc                   | 560Vdc                   | 600Vdc                    |
| Capacitance Range                        | 4.0 $\mu$ F~60.0 $\mu$ F  | 1.0 $\mu$ F~40.0 $\mu$ F | 1.0 $\mu$ F~28.0 $\mu$ F | 0.33 $\mu$ F~27.0 $\mu$ F |
| Capacitance Tolerance                    | $\pm$ 5%(J), $\pm$ 10%(K)   |                          |                          |                           |
| Voltage Proof                            | Between Terminals:  | 1.5 $U_N$ (Vac) (10s)    |                          |                           |
|  | Between Terminals To Case:  | 3 000 Vac(60s)           |                          |                           |
| Insulation Resistance( $IR \times C_N$ ) | $\geq$ 3 000s (20 $^{\circ}$ C, 100V, 1min)   |                          |                          |                           |
| Dissipation Factor                       | $\leq$ 20 $\times$ 10 $^{-4}$ (1kHz,20 $^{\circ}$ C) (Typical value,15 $\times$ 10 $^{-4}$ )  |                          |                          |                           |

## ■ Part number system

The 18 digits part number is formed as follow:

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

|   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| C | 6 | A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

Digit 1 to 3 Series code

C6A

Digit 4 to 5 Rated RMS Voltage

L4=180V E2=250V Q1=300V R2=350V

Digit 6 to 8 Rated capacitance value

For example: 156=15×10<sup>6</sup>pF=15μF

Digit 9 Capacitance tolerance

J=±5%,K=±10%

Digit 10 Pitch

B=27.5mm F=37.5mm M=52.5mm

Digit 11 Internal use

Digit 12 to 15 Lead form and packaging code

Digit 16 to 18 Internal use

**Table 1 lead form and packaging code**

| Digit 12 |                              | Digit 13 |                                  | Digit 14 |                         |
|----------|------------------------------|----------|----------------------------------|----------|-------------------------|
| Code     | explanation                  | Code     | explanation                      | Code     | explanation             |
| 0        | Two pins(bulk)               | 00       | standard lead length (18mm~26mm) | 0        | Length tolerance ±1.0mm |
|          |                              | 55       | lead length 5.5mm                |          | Or standard length      |
| 1        | four pins(bulk)<br>P1=10.0mm | 00       | standard lead length 5.5mm       | 0        | Length tolerance ±1.0mm |
| 2        | four pins(bulk)<br>P1=12.7mm | 38       | lead length 3.8mm                | 2        | Length tolerance ±0.5mm |
| 3        | four pins(bulk)<br>P1=20.0mm |          |                                  |          |                         |
| B        | four pins(bulk)<br>P1=10.2mm |          |                                  |          |                         |
| A        | four pins(bulk)<br>P1=20.3mm |          |                                  |          |                         |

## ■ Technical data(mm)

$U_{rms}=180Vac$ ,  $U_N=250Vac$ ,  $U_{NDC}=300Vdc$

| $C_N$<br>( $\mu F$ ) | $W$<br>$\pm 1.0$ | $H$<br>$\pm 1.0$ | $T$<br>$\pm 1.0$ | $P$<br>$\pm 1.0$ | $P1$<br>$\pm 0.5$ | Pins | $d$<br>$\pm 0.05$ | $L_s$<br>(nH) | ESR<br>@10kHz<br>( $m\Omega$ ) | $\hat{I}$<br>(A) | $\hat{I}_s$<br>(A) | $I_{max}$<br>@70°C, 10kHz<br>(A) | Part number       |
|----------------------|------------------|------------------|------------------|------------------|-------------------|------|-------------------|---------------|--------------------------------|------------------|--------------------|----------------------------------|-------------------|
| 4.0                  | 32.0             | 22.0             | 13.0             | 27.5             | ----              | 2    | 1.0               | 16            | 6.7                            | 280              | 840                | 7                                | C6AL4405-B00***** |
| 5.0                  | 32.0             | 28.0             | 14.0             | 27.5             | ----              | 2    | 1.0               | 18            | 5.3                            | 350              | 1050               | 8                                | C6AL4505-B00***** |
| 6.8                  | 32.0             | 33.0             | 18.0             | 27.5             | ----              | 2    | 1.2               | 21            | 3.9                            | 476              | 1428               | 11                               | C6AL4685-B00***** |
| 10                   | 32.0             | 33.0             | 18.0             | 27.5             | ----              | 2    | 1.2               | 20            | 2.7                            | 700              | 2100               | 13                               | C6AL4106-B00***** |
| 10                   | 41.0             | 32.0             | 17.0             | 37.5             | ----              | 2    | 1.2               | 22            | 4.9                            | 400              | 1200               | 10                               | C6AL4106-F00***** |
| 15                   | 41.0             | 37.0             | 22.0             | 37.5             | ----              | 2    | 1.2               | 24            | 3.3                            | 600              | 1800               | 14                               | C6AL4156-F00***** |
| 18                   | 42.0             | 36.0             | 23.0             | 37.5             | ----              | 2    | 1.2               | 25            | 2.7                            | 720              | 2160               | 14                               | C6AL4186-F00***** |
| 20                   | 42.0             | 36.0             | 23.0             | 37.5             | ----              | 2    | 1.2               | 25            | 2.5                            | 800              | 2400               | 14                               | C6AL4206-F00***** |
| 22                   | 41.0             | 41.0             | 26.0             | 37.5             | ----              | 2    | 1.2               | 26            | 2.2                            | 880              | 2640               | 14                               | C6AL4226-F00***** |
| 25                   | 41.0             | 41.0             | 26.0             | 37.5             | ----              | 2    | 1.2               | 27            | 2.0                            | 1000             | 3000               | 14                               | C6AL4256-F00***** |
| 30                   | 42.0             | 45.0             | 30.0             | 37.5             | ----              | 2    | 1.2               | 28            | 1.6                            | 1200             | 3600               | 14                               | C6AL4306-F00***** |
| 33                   | 42.0             | 45.0             | 30.0             | 37.5             | ----              | 2    | 1.2               | 29            | 1.5                            | 1320             | 3960               | 14                               | C6AL4336-F00***** |
| 40                   | 57.0             | 43.5             | 29.5             | 52.5             | 20.3              | 4    | 1.2               | 26            | 2.6                            | 800              | 2400               | 20                               | C6AL4406-M0A***** |
| 50                   | 57.0             | 50.0             | 35.0             | 52.5             | 20.3              | 4    | 1.2               | 28            | 2.1                            | 1000             | 3000               | 24                               | C6AL4506-M0A***** |
| 60                   | 57.0             | 50.0             | 35.0             | 52.5             | 20.3              | 4    | 1.2               | 29            | 1.7                            | 1200             | 3600               | 27                               | C6AL4606-M0A***** |

$U_{rms}=250Vac$ ,  $U_N=350Vac$ ,  $U_{NDC}=475Vdc$

| $C_N$<br>( $\mu F$ ) | $W$<br>$\pm 1.0$ | $H$<br>$\pm 1.0$ | $T$<br>$\pm 1.0$ | $P$<br>$\pm 1.0$ | $P1$<br>$\pm 0.5$ | Pins | $d$<br>$\pm 0.05$ | $L_s$<br>(nH) | ESR<br>@10kHz<br>( $m\Omega$ ) | $\hat{I}$<br>(A) | $\hat{I}_s$<br>(A) | $I_{max}$<br>@70°C, 10kHz<br>(A) | Part number       |
|----------------------|------------------|------------------|------------------|------------------|-------------------|------|-------------------|---------------|--------------------------------|------------------|--------------------|----------------------------------|-------------------|
| 1.0                  | 32.0             | 18.0             | 9.0              | 27.5             | ----              | 2    | 1.0               | 20            | 19.3                           | 90               | 270                | 3                                | C6AE2105-B00***** |
| 1.5                  | 32.0             | 20.0             | 11.0             | 27.5             | ----              | 2    | 1.0               | 20            | 12.9                           | 135              | 405                | 4                                | C6AE2155-B00***** |
| 2.0                  | 32.0             | 22.0             | 13.0             | 27.5             | ----              | 2    | 1.0               | 20            | 9.6                            | 180              | 540                | 5                                | C6AE2205-B00***** |
| 2.2                  | 32.0             | 22.0             | 13.0             | 27.5             | ----              | 2    | 1.0               | 20            | 8.8                            | 198              | 594                | 6                                | C6AE2225-B00***** |
| 2.5                  | 32.0             | 22.0             | 13.0             | 27.5             | ----              | 2    | 1.0               | 20            | 7.7                            | 225              | 675                | 6                                | C6AE2255-B00***** |
| 3.0                  | 32.0             | 24.5             | 15.0             | 27.5             | ----              | 2    | 1.0               | 20            | 6.4                            | 270              | 810                | 7                                | C6AE2305-B00***** |
| 3.3                  | 32.0             | 24.5             | 15.0             | 27.5             | ----              | 2    | 1.0               | 21            | 5.8                            | 297              | 891                | 8                                | C6AE2335-B00***** |
| 3.5                  | 32.0             | 28.0             | 14.0             | 27.5             | ----              | 2    | 1.0               | 23            | 5.5                            | 315              | 945                | 8                                | C6AE2355-B00***** |
| 4.0                  | 32.0             | 33.0             | 18.0             | 27.5             | ----              | 2    | 1.2               | 22            | 4.8                            | 360              | 1080               | 10                               | C6AE2405-B00***** |
| 4.5                  | 32.0             | 33.0             | 18.0             | 27.5             | ----              | 2    | 1.2               | 23            | 4.3                            | 405              | 1215               | 10                               | C6AE2455-B00***** |
| 5.0                  | 32.0             | 33.0             | 18.0             | 27.5             | ----              | 2    | 1.2               | 23            | 3.9                            | 450              | 1350               | 11                               | C6AE2505-B00***** |
| 6.8                  | 32.0             | 37.0             | 22.0             | 27.5             | ----              | 2    | 1.2               | 24            | 2.8                            | 612              | 1836               | 14                               | C6AE2685-B00***** |
| 4.7                  | 41.0             | 26.0             | 15.0             | 37.5             | ----              | 2    | 1.2               | 24            | 7.8                            | 282              | 846                | 7                                | C6AE2475-F00***** |

## ■ Technical data(mm)

| U <sub>rms</sub> =250Vac, U <sub>N</sub> =350Vac, U <sub>NDC</sub> =475Vdc |           |           |           |           |            |      |            |                        |                       |           |                        |   |                   |
|--|-----------|-----------|-----------|-----------|------------|------|------------|------------------------|-----------------------|-----------|------------------------|---|-------------------|
| C <sub>N</sub><br>(μF)   | W<br>±1.0 | H<br>±1.0 | T<br>±1.0 | P<br>±1.0 | P1<br>±0.5 | Pins | d<br>±0.05 | L <sub>s</sub><br>(nH) | ESR<br>@10kHz<br>(mΩ) | Î<br>(A) | Î <sub>s</sub><br>(A) | I <sub>max</sub><br>@70°C, 10kHz<br>(A) | Part number       |
| 5.0  | 42.0      | 28.0      | 14.0      | 37.5      | ----       | 2    | 1.2        | 26                     | 7.3                   | 300       | 900                    | 8                                       | C6AE2505-F00****+ |
| 6.0  | 41.0      | 32.0      | 17.0      | 37.5      | ----       | 2    | 1.2        | 26                     | 6.1                   | 360       | 1080                   | 9                                       | C6AE2605-F00****+ |
| 6.5  | 41.0      | 32.0      | 17.0      | 37.5      | ----       | 2    | 1.2        | 26                     | 5.6                   | 390       | 1170                   | 10                                      | C6AE2655-F00****+ |
| 6.8  | 41.0      | 33.5      | 18.5      | 37.5      | ----       | 2    | 1.2        | 27                     | 5.4                   | 408       | 1224                   | 10                                      | C6AE2685-F00****+ |
| 7.5  | 41.0      | 33.5      | 18.5      | 37.5      | ----       | 2    | 1.2        | 27                     | 4.9                   | 450       | 1350                   | 11                                      | C6AE2755-F00****+ |
| 8.0  | 41.0      | 37.0      | 22.0      | 37.5      | ----       | 2    | 1.2        | 27                     | 4.6                   | 480       | 1440                   | 12                                      | C6AE2805-F00****+ |
| 10   | 41.0      | 37.0      | 22.0      | 37.5      | ----       | 2    | 1.2        | 28                     | 3.7                   | 600       | 1800                   | 13                                      | C6AE2106-F00****+ |
| 12   | 41.0      | 41.0      | 26.0      | 37.5      | ----       | 2    | 1.2        | 29                     | 3.0                   | 720       | 2160                   | 14                                      | C6AE2126-F00****+ |
| 15   | 41.0      | 41.0      | 26.0      | 37.5      | ----       | 2    | 1.2        | 30                     | 2.4                   | 900       | 2700                   | 14                                      | C6AE2156-F00****+ |
| 18   | 41.0      | 43.0      | 28.0      | 37.5      | ----       | 2    | 1.2        | 31                     | 2.0                   | 1080      | 3240                   | 14                                      | C6AE2186-F00****+ |
| 20   | 42.0      | 45.0      | 30.0      | 37.5      | ----       | 2    | 1.2        | 32                     | 1.8                   | 1200      | 3600                   | 14                                      | C6AE2206-F00****+ |
| 22   | 42.0      | 45.0      | 30.0      | 37.5      | ----       | 2    | 1.2        | 33                     | 1.7                   | 1320      | 3960                   | 14                                      | C6AE2226-F00****+ |
| 25   | 57.0      | 43.5      | 29.5      | 52.5      | 20.3       | 4    | 1.2        | 31                     | 3.3                   | 750       | 2250                   | 18                                      | C6AE2256-M0A****+ |
| 30   | 57.0      | 43.5      | 29.5      | 52.5      | 20.3       | 4    | 1.2        | 32                     | 2.7                   | 900       | 2700                   | 20                                      | C6AE2306-M0A****+ |
| 35   | 57.0      | 50.0      | 35.0      | 52.5      | 20.3       | 4    | 1.2        | 32                     | 2.3                   | 1050      | 3150                   | 23                                      | C6AE2356-M0A****+ |
| 40   | 57.0      | 50.0      | 35.0      | 52.5      | 20.3       | 4    | 1.2        | 33                     | 2.0                   | 1200      | 3600                   | 25                                      | C6AE2406-M0A****+ |

| U <sub>rms</sub> = 300Vac, U <sub>N</sub> =425Vac, U <sub>NDC</sub> =560Vdc |           |           |           |           |            |      |            |                        |                       |           |                        |   |                   |
|---|-----------|-----------|-----------|-----------|------------|------|------------|------------------------|-----------------------|-----------|------------------------|---|-------------------|
| C <sub>N</sub><br>(μF)  | W<br>±1.0 | H<br>±1.0 | T<br>±1.0 | P<br>±1.0 | P1<br>±0.5 | Pins | d<br>±0.05 | L <sub>s</sub><br>(nH) | ESR<br>@10kHz<br>(mΩ) | Î<br>(A) | Î <sub>s</sub><br>(A) | I <sub>max</sub><br>@70°C, 10kHz<br>(A) | Part number       |
| 1.0   | 32.0      | 20.0      | 11.0      | 27.5      | ----       | 2    | 1.0        | 16                     | 15.9                  | 100       | 300                    | 4                                       | C6AQ1105-B00****+ |
| 1.5   | 32.0      | 22.0      | 13.0      | 27.5      | ----       | 2    | 1.0        | 17                     | 10.6                  | 150       | 450                    | 5                                       | C6AQ1155-B00****+ |
| 2.0   | 32.0      | 24.5      | 15.0      | 27.5      | ----       | 2    | 1.0        | 18                     | 8.9                   | 200       | 600                    | 6                                       | C6AQ1205-B00****+ |
| 2.2   | 32.0      | 24.5      | 15.0      | 27.5      | ----       | 2    | 1.0        | 18                     | 8.0                   | 220       | 660                    | 7                                       | C6AQ1225-B00****+ |
| 2.5   | 32.0      | 28.0      | 14.0      | 27.5      | ----       | 2    | 1.0        | 19                     | 7.2                   | 250       | 750                    | 8                                       | C6AQ1255-B00****+ |
| 3.0   | 32.0      | 33.0      | 18.0      | 27.5      | ----       | 2    | 1.2        | 21                     | 6.4                   | 300       | 900                    | 9                                       | C6AQ1305-B00****+ |
| 3.3   | 32.0      | 33.0      | 18.0      | 27.5      | ----       | 2    | 1.2        | 20                     | 5.3                   | 330       | 990                    | 10                                      | C6AQ1335-B00****+ |
| 3.5   | 32.0      | 33.0      | 18.0      | 27.5      | ----       | 2    | 1.2        | 21                     | 4.8                   | 350       | 1050                   | 10                                      | C6AQ1355-B00****+ |
| 4.0   | 32.0      | 33.0      | 18.0      | 27.5      | ----       | 2    | 1.2        | 21                     | 4.6                   | 400       | 1200                   | 11                                      | C6AQ1405-B00****+ |
| 4.7   | 32.0      | 37.0      | 22.0      | 27.5      | ----       | 2    | 1.2        | 22                     | 4.0                   | 470       | 1410                   | 13                                      | C6AQ1475-B00****+ |
| 5.0   | 32.0      | 37.0      | 22.0      | 27.5      | ----       | 2    | 1.2        | 22                     | 3.4                   | 500       | 1500                   | 13                                      | C6AQ1505-B00****+ |
| 6.8   | 32.0      | 37.0      | 22.0      | 27.5      | ----       | 2    | 1.2        | 23                     | 3.2                   | 680       | 2040                   | 14                                      | C6AQ1685-B00****+ |
| 3.0   | 41.0      | 26.0      | 15.0      | 37.5      | ----       | 2    | 1.2        | 22                     | 10.1                  | 210       | 630                    | 6                                       | C6AQ1305-F00****+ |

## ■ Technical data(mm)

$U_{rms} = 300Vac$ ,  $U_N=425Vac$ ,  $U_{NDC}=560Vdc$

| $C_N$<br>( $\mu F$ ) | W<br>$\pm 1.0$ | H<br>$\pm 1.0$ | T<br>$\pm 1.0$ | P<br>$\pm 1.0$ | P1<br>$\pm 0.5$ | Pins | d<br>$\pm 0.05$ | $L_s$<br>(nH) | ESR<br>@10kHz<br>(m $\Omega$ ) | $\hat{I}$<br>(A) | $\hat{I}_s$<br>(A) | $I_{max}$<br>@70°C, 10kHz<br>(A) | Part number       |
|----------------------|----------------|----------------|----------------|----------------|-----------------|------|-----------------|---------------|--------------------------------|------------------|--------------------|----------------------------------|-------------------|
| 3.3                  | 41.0           | 26.0           | 15.0           | 37.5           | ----            | 2    | 1.2             | 22            | 9.2                            | 231              | 693                | 7                                | C6AQ1335-F00****+ |
| 3.5                  | 42.0           | 28.0           | 14.0           | 37.5           | ----            | 2    | 1.2             | 23            | 8.6                            | 245              | 735                | 7                                | C6AQ1355-F00****+ |
| 4.0                  | 41.0           | 32.0           | 17.0           | 37.5           | ----            | 2    | 1.2             | 24            | 7.6                            | 280              | 840                | 8                                | C6AQ1405-F00****+ |
| 4.5                  | 41.0           | 32.0           | 17.0           | 37.5           | ----            | 2    | 1.2             | 24            | 6.7                            | 315              | 945                | 9                                | C6AQ1455-F00****+ |
| 4.7                  | 41.0           | 32.0           | 17.0           | 37.5           | ----            | 2    | 1.2             | 24            | 6.4                            | 329              | 987                | 9                                | C6AQ1475-F00****+ |
| 5.0                  | 41.0           | 33.5           | 18.5           | 37.5           | ----            | 2    | 1.2             | 24            | 6.0                            | 350              | 1050               | 10                               | C6AQ1505-F00****+ |
| 6.0                  | 41.0           | 33.5           | 18.5           | 37.5           | ----            | 2    | 1.2             | 25            | 5.0                            | 420              | 1260               | 11                               | C6AQ1605-F00****+ |
| 6.8                  | 41.0           | 37.0           | 22.0           | 37.5           | ----            | 2    | 1.2             | 25            | 4.4                            | 476              | 1428               | 12                               | C6AQ1685-F00****+ |
| 8.0                  | 41.0           | 37.0           | 22.0           | 37.5           | ----            | 2    | 1.2             | 26            | 3.8                            | 560              | 1680               | 13                               | C6AQ1805-F00****+ |
| 10                   | 41.0           | 41.0           | 26.0           | 37.5           | ----            | 2    | 1.2             | 28            | 3.0                            | 700              | 2100               | 14                               | C6AQ1106-F00****+ |
| 12                   | 41.0           | 43.0           | 28.0           | 37.5           | ----            | 2    | 1.2             | 29            | 2.5                            | 840              | 2520               | 14                               | C6AQ1126-F00****+ |
| 15                   | 42.0           | 45.0           | 30.0           | 37.5           | ----            | 2    | 1.2             | 30            | 2.1                            | 1050             | 3150               | 14                               | C6AQ1156-F00****+ |
| 18                   | 57.0           | 43.5           | 29.5           | 52.5           | 20.3            | 4    | 1.2             | 29            | 3.8                            | 720              | 2160               | 17                               | C6AQ1186-M0A****+ |
| 20                   | 57.0           | 43.5           | 29.5           | 52.5           | 20.3            | 4    | 1.2             | 29            | 3.4                            | 800              | 2400               | 18                               | C6AQ1206-M0A****+ |
| 22                   | 57.0           | 43.5           | 29.5           | 52.5           | 20.3            | 4    | 1.2             | 30            | 3.1                            | 880              | 2640               | 20                               | C6AQ1226-M0A****+ |
| 25                   | 57.0           | 50.0           | 35.0           | 52.5           | 20.3            | 4    | 1.2             | 31            | 2.7                            | 1000             | 3000               | 21                               | C6AQ1256-M0A****+ |
| 28                   | 57.0           | 50.0           | 35.0           | 52.5           | 20.3            | 4    | 1.2             | 32            | 2.4                            | 1120             | 3360               | 23                               | C6AQ1286-M0A****+ |

$U_{rms} = 350Vac$ ,  $U_N=480Vac$ ,  $U_{NDC}=600Vdc$

| $C_N$<br>( $\mu F$ ) | W<br>$\pm 1.0$ | H<br>$\pm 1.0$ | T<br>$\pm 1.0$ | P<br>$\pm 1.0$ | P1<br>$\pm 0.5$ | Pins | d<br>$\pm 0.05$ | $L_s$<br>(nH) | ESR<br>@10kHz<br>(m $\Omega$ ) | $\hat{I}$<br>(A) | $\hat{I}_s$<br>(A) | $I_{max}$<br>@70°C, 10kHz<br>(A) | Part number       |
|----------------------|----------------|----------------|----------------|----------------|-----------------|------|-----------------|---------------|--------------------------------|------------------|--------------------|----------------------------------|-------------------|
| 0.33                 | 32.0           | 18.0           | 9.0            | 27.5           | ----            | 2    | 0.8             | 17            | 53.9                           | 17               | 50                 | 1.6                              | C6AR2334-B00****+ |
| 0.39                 | 32.0           | 18.0           | 9.0            | 27.5           | ----            | 2    | 0.8             | 17            | 46.0                           | 20               | 60                 | 1.7                              | C6AR2394-B00****+ |
| 0.47                 | 32.0           | 18.0           | 9.0            | 27.5           | ----            | 2    | 0.8             | 17            | 38.6                           | 24               | 72                 | 1.9                              | C6AR2474-B00****+ |
| 0.68                 | 32.0           | 20.0           | 11.0           | 27.5           | ----            | 2    | 0.8             | 18            | 27.5                           | 35               | 104                | 2.5                              | C6AR2684-B00****+ |
| 0.82                 | 32.0           | 22.0           | 13.0           | 27.5           | ----            | 2    | 0.8             | 18            | 23.3                           | 42               | 125                | 3.0                              | C6AR2824-B00****+ |
| 1.0                  | 32.0           | 22.0           | 13.0           | 27.5           | ----            | 2    | 0.8             | 18            | 19.6                           | 51               | 153                | 3.2                              | C6AR2105-B00****+ |
| 1.5                  | 32.0           | 24.5           | 15.0           | 27.5           | ----            | 2    | 0.8             | 19            | 14.0                           | 76               | 229                | 4.2                              | C6AR2155-B00****+ |
| 2.0                  | 32.0           | 30.0           | 16.0           | 27.5           | ----            | 2    | 0.8             | 21            | 11.1                           | 102              | 306                | 5.0                              | C6AR2205-B00****+ |
| 2.2                  | 32.0           | 30.0           | 16.0           | 27.5           | ----            | 2    | 0.8             | 20            | 10.4                           | 112              | 336                | 5.2                              | C6AR2225-B00****+ |
| 2.5                  | 32.0           | 33.0           | 18.0           | 27.5           | ----            | 2    | 1.0             | 22            | 7.0                            | 127              | 382                | 6.2                              | C6AR2255-B00****+ |
| 3.0K                 | 32.0           | 33.0           | 18.0           | 27.5           | ----            | 2    | 1.0             | 21            | 6.1                            | 145              | 435                | 6.5                              | C6AR2305KB10****+ |

## ■ Technical data(mm)

$U_{rms} = 350Vac$ ,  $U_N = 480Vac$ ,  $U_{NDC} = 600Vdc$

| $C_N$<br>( $\mu F$ ) | W<br>$\pm 1.0$ | H<br>$\pm 1.0$ | T<br>$\pm 1.0$ | P<br>$\pm 1.0$ | P1<br>$\pm 0.5$ | Pins | d<br>$\pm 0.05$ | $L_s$<br>(nH) | ESR<br>@10kHz<br>(m $\Omega$ ) | $\hat{I}$<br>(A) | $\hat{I}_s$<br>(A) | $I_{max}$<br>@70°C, 10kHz<br>(A) | Part number        |
|----------------------|----------------|----------------|----------------|----------------|-----------------|------|-----------------|---------------|--------------------------------|------------------|--------------------|----------------------------------|--------------------|
| 3.0                  | 32.0           | 37.0           | 22.0           | 27.5           | ----            | 2    | 1.0             | 24            | 5.8                            | 153              | 458                | 7.4                              | C6AR2305-B00***+++ |
| 3.3                  | 32.0           | 37.0           | 22.0           | 27.5           | ----            | 2    | 1.0             | 24            | 5.3                            | 168              | 504                | 7.7                              | C6AR2335-B00***+++ |
| 3.5                  | 32.0           | 37.0           | 22.0           | 27.5           | ----            | 2    | 1.0             | 23            | 5.0                            | 178              | 535                | 7.9                              | C6AR2355-B00***+++ |
| 4.0                  | 32.0           | 37.0           | 22.0           | 27.5           | ----            | 2    | 1.0             | 23            | 4.4                            | 204              | 611                | 8.2                              | C6AR2405-B00***+++ |
| 1.0                  | 41.0           | 22.0           | 11.0           | 37.5           | ----            | 2    | 1.0             | 24            | 28.0                           | 36               | 109                | 2.8                              | C6AR2105-F00***+++ |
| 1.5                  | 41.0           | 24.0           | 13.0           | 37.5           | ----            | 2    | 1.0             | 25            | 19.3                           | 55               | 164                | 3.7                              | C6AR2155-F00***+++ |
| 2.0                  | 41.0           | 26.0           | 15.0           | 37.5           | ----            | 2    | 1.0             | 26            | 14.9                           | 73               | 219                | 4.6                              | C6AR2205-F00***+++ |
| 2.2                  | 41.0           | 26.0           | 15.0           | 37.5           | ----            | 2    | 1.0             | 25            | 13.7                           | 80               | 241                | 4.8                              | C6AR2225-F00***+++ |
| 2.5                  | 41.0           | 30.0           | 16.0           | 37.5           | ----            | 2    | 1.0             | 27            | 12.3                           | 91               | 274                | 5.3                              | C6AR2255-F00***+++ |
| 3.0                  | 41.0           | 30.0           | 16.0           | 37.5           | ----            | 2    | 1.0             | 26            | 10.5                           | 109              | 328                | 5.7                              | C6AR2305-F00***+++ |
| 3.3                  | 41.0           | 32.0           | 17.0           | 37.5           | ----            | 2    | 1.0             | 29            | 9.7                            | 120              | 361                | 6.2                              | C6AR2335-F00***+++ |
| 3.5                  | 41.0           | 32.0           | 17.0           | 37.5           | ----            | 2    | 1.0             | 28            | 9.3                            | 128              | 383                | 6.4                              | C6AR2355-F00***+++ |
| 4.0                  | 41.0           | 33.5           | 18.5           | 37.5           | ----            | 2    | 1.0             | 29            | 8.3                            | 146              | 438                | 7.0                              | C6AR2405-F00***+++ |
| 4.5                  | 41.0           | 37.0           | 22.0           | 37.5           | ----            | 2    | 1.0             | 31            | 7.6                            | 164              | 493                | 8.0                              | C6AR2455-F00***+++ |
| 5.0                  | 41.0           | 37.0           | 22.0           | 37.5           | ----            | 2    | 1.0             | 30            | 7.0                            | 182              | 547                | 8.3                              | C6AR2505-F00***+++ |
| 5.5                  | 41.0           | 37.0           | 22.0           | 37.5           | ----            | 2    | 1.0             | 29            | 6.6                            | 201              | 602                | 8.6                              | C6AR2555-F00***+++ |
| 6.0                  | 41.0           | 41.0           | 26.0           | 37.5           | ----            | 2    | 1.0             | 32            | 6.2                            | 219              | 657                | 9.7                              | C6AR2605-F00***+++ |
| 6.5                  | 41.0           | 41.0           | 26.0           | 37.5           | ----            | 2    | 1.0             | 31            | 5.8                            | 237              | 712                | 10.0                             | C6AR2655-F00***+++ |
| 7.0                  | 41.0           | 41.0           | 26.0           | 37.5           | ----            | 2    | 1.0             | 31            | 5.5                            | 255              | 766                | 10.3                             | C6AR2705-F00***+++ |
| 7.5                  | 41.0           | 41.0           | 26.0           | 37.5           | ----            | 2    | 1.0             | 30            | 5.3                            | 274              | 821                | 10.5                             | C6AR2755-F00***+++ |
| 8.0                  | 41.0           | 41.0           | 26.0           | 37.5           | ----            | 2    | 1.0             | 30            | 5.1                            | 292              | 876                | 10.5                             | C6AR2805-F00***+++ |
| 8.5                  | 41.0           | 43.0           | 28.0           | 37.5           | ----            | 2    | 1.0             | 32            | 4.9                            | 310              | 930                | 10.5                             | C6AR2855-F00***+++ |
| 9.0                  | 41.0           | 43.0           | 28.0           | 37.5           | ----            | 2    | 1.0             | 31            | 4.7                            | 328              | 985                | 10.5                             | C6AR2905-F00***+++ |
| 9.5                  | 42.0           | 45.0           | 30.0           | 37.5           | ----            | 2    | 1.0             | 33            | 4.5                            | 347              | 1040               | 10.5                             | C6AR2955-F00***+++ |
| 10.0                 | 42.0           | 45.0           | 30.0           | 37.5           | ----            | 2    | 1.0             | 32            | 4.4                            | 365              | 1095               | 10.5                             | C6AR2106-F00***+++ |



## ■ Technical data(mm)

$U_{rms} = 350Vac$ ,  $U_N=480Vac$ ,  $U_{NDC}=600Vdc$

| $C_N$<br>( $\mu F$ ) | W<br>$\pm 1.0$ | H<br>$\pm 1.0$ | T<br>$\pm 1.0$ | P<br>$\pm 1.0$ | P1<br>$\pm 0.5$ | Pins | d<br>$\pm 0.05$ | $L_s$<br>(nH) | ESR<br>@10kHz<br>(m $\Omega$ ) | $\hat{I}$<br>(A) | $\hat{I}_s$<br>(A) | $I_{max}$<br>@70°C, 10kHz<br>(A) | Part number       |
|----------------------|----------------|----------------|----------------|----------------|-----------------|------|-----------------|---------------|--------------------------------|------------------|--------------------|----------------------------------|-------------------|
| 10.0                 | 57.0           | 45.0           | 25.0           | 52.5           | ----            | 2    | 1.2             | 34            | 5.7                            | 260              | 781                | 11.6                             | C6AR2106-M00***** |
| 11.0                 | 57.0           | 45.0           | 25.0           | 52.5           | ----            | 2    | 1.2             | 33            | 5.3                            | 286              | 859                | 11.9                             | C6AR2116-M00***** |
| 12.0                 | 57.0           | 43.5           | 29.5           | 52.5           | 20.3            | 4    | 1.2             | 29            | 4.4                            | 312              | 937                | 14.1                             | C6AR2126-M1A***** |
| 15.0                 | 57.0           | 45.0           | 35.0           | 52.5           | 20.3            | 4    | 1.2             | 31            | 3.7                            | 391              | 1172               | 16.4                             | C6AR2156-M0A***** |
| 16.0                 | 57.0           | 45.0           | 35.0           | 52.5           | 20.3            | 4    | 1.2             | 30            | 3.5                            | 417              | 1250               | 16.8                             | C6AR2166-M0A***** |
| 18.0                 | 57.0           | 50.0           | 35.0           | 52.5           | 20.3            | 4    | 1.2             | 33            | 3.2                            | 469              | 1406               | 18.1                             | C6AR2186-M0A***** |
| 20.0                 | 57.0           | 50.0           | 40.0           | 52.5           | 20.3            | 4    | 1.2             | 32            | 2.9                            | 521              | 1562               | 19.8                             | C6AR2206-M0A***** |
| 21.0                 | 57.0           | 50.0           | 40.0           | 52.5           | 20.3            | 4    | 1.2             | 32            | 2.8                            | 547              | 1640               | 20.1                             | C6AR2216-M0A***** |
| 25.0                 | 57.0           | 55.0           | 45.0           | 52.5           | 20.3            | 4    | 1.2             | 34            | 2.5                            | 651              | 1953               | 22.8                             | C6AR2256-M3A***** |
| 27.0                 | 57.0           | 55.0           | 45.0           | 52.5           | 20.3            | 4    | 1.2             | 33            | 2.4                            | 703              | 2109               | 23.5                             | C6AR2256-M0A***** |

- Note:
1. “-”=capacitance tolerance code, J= $\pm 5\%$ , K= $\pm 10\%$
  2. “\*\*\*”=lead dimensions and packing mode code(refer to table 1)
  3. “+++”= Internal use
  4. “ $I_{max}$ ”@10kHz,  $\Theta_{amb}=70^\circ C$ ,  $\Delta \Theta_{case}=15^\circ C$ .
  5. When the P1=20.0mm, the digit 12 is “3”.
  6. “ $U_{rms} = 300Vac$ ”: As the power supply voltage fluctuation, the maximum ac voltage is 300Vac. And 300Vac is the maximum voltage when the power supply voltage (rated voltage is 240Vac) is in a fluctuation, instead of the guarantee of continuous voltage value.
  7. “ $U_{rms} = 350Vac$ ” used in 277Vac power supply voltage.

## ■ Caution and warnings

- When using the products shall not exceed the maximum allowed temperature
- Do not apply any mechanical stress to the capacitor terminals
- Do not exceed the specified time or temperature limits during soldering.