

## HACB Series

- Maximum operating temperature 105°C.
- Allowable temperature rise 15K max.
- A little hum is produced when applied AC voltage.



### ◆SPECIFICATIONS

| Items                                          | Characteristics                                                                                                               |                                                   |      |      |      |      |      |      |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|------|------|------|------|------|------|
| Category temperature range                     | -40 to +105℃                                                                                                                  |                                                   |      |      |      |      |      |      |
| Rated voltage range                            | 630 to 4000V <sub>dc</sub>                                                                                                    |                                                   |      |      |      |      |      |      |
| Capacitance tolerance                          | ±3% (H) or ±5%(J) : Equal or less than 2000V <sub>dc</sub> .<br>±5% (J) or ±10%(K) : Equal or more than 3150V <sub>dc</sub> . |                                                   |      |      |      |      |      |      |
| Voltage proof<br>(Terminal - Terminal)         | No degradation, at 150% of rated voltage shall be applied for 60 seconds.                                                     |                                                   |      |      |      |      |      |      |
| Dissipation factor<br>(tanδ)                   | No more than 0.05% : Equal or less than 1μF.<br>No more than (c×0.015+0.05)% : More than 1μF.                                 |                                                   |      |      |      |      |      |      |
| Insulation resistance<br>(Terminal - Terminal) | No less than 30000MΩ : Equal or less than 0.33μF.<br>No less than 10000ΩF : More than 0.33μF.                                 |                                                   |      |      |      |      |      |      |
|                                                | Rated voltage (V <sub>dc</sub> )                                                                                              | 630                                               | 1000 | 1250 | 1650 | 2000 | 3150 | 4000 |
|                                                | Measurement voltage (V <sub>dc</sub> )                                                                                        | 500                                               | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| Endurance                                      | The following specifications shall be satisfied, after 1000hrs with applying rated voltage×125% at 105℃.                      |                                                   |      |      |      |      |      |      |
|                                                | Appearance                                                                                                                    | No serious degradation                            |      |      |      |      |      |      |
|                                                | Insulation resistance<br>(Terminal - Terminal)                                                                                | No less than 10000MΩ : Equal or less than 0.33μF. |      |      |      |      |      |      |
|                                                |                                                                                                                               | No less than 3000ΩF : More than 0.33μF.           |      |      |      |      |      |      |
|                                                | Dissipation factor (tanδ)                                                                                                     | Not more than initial specification at 1kHz.      |      |      |      |      |      |      |
|                                                | Capacitance change                                                                                                            | Within ±5% of initial value.                      |      |      |      |      |      |      |
| Loading under damp heat                        | The following specifications shall be satisfied, after 500hrs with applying rated voltage at 40℃ 90~95%RH.                    |                                                   |      |      |      |      |      |      |
|                                                | Appearance                                                                                                                    | No serious degradation.                           |      |      |      |      |      |      |
|                                                | Insulation resistance<br>(Terminal - Terminal)                                                                                | No less than 10000MΩ : Equal or less than 0.33μF. |      |      |      |      |      |      |
|                                                |                                                                                                                               | No less than 3000ΩF : More than 0.33μF.           |      |      |      |      |      |      |
|                                                | Dissipation factor (tanδ)                                                                                                     | Not more than initial specification at 1kHz.      |      |      |      |      |      |      |
|                                                | Capacitance change                                                                                                            | Within ±5% of initial value.                      |      |      |      |      |      |      |

### ◆STANDARD RATINGS

| WV<br>(V <sub>dc</sub> ) | Cap<br>(μF) | Dimensions (mm) |      |      |      |     | Maximum<br>ripple current<br>(Arms) | WV<br>(V <sub>ac</sub> ) | Part Number        | Previous Part Number<br>(Just for your reference) |
|--------------------------|-------------|-----------------|------|------|------|-----|-------------------------------------|--------------------------|--------------------|---------------------------------------------------|
|                          |             | W               | H    | T    | F    | φd  |                                     |                          |                    |                                                   |
| 630                      | 0.033       | 17.7            | 8.7  | 8.3  | 12.5 | 0.8 | 2.54                                | 300                      | FHACB631V333□0LGZ0 | HACB2J333□                                        |
|                          | 0.039       |                 | 9.3  | 8.8  |      |     | 2.76                                |                          | FHACB631V393□0LGZ0 | HACB2J393□                                        |
|                          | 0.047       |                 | 9.8  | 9.3  |      |     | 3.04                                |                          | FHACB631V473□0LGZ0 | HACB2J473□                                        |
|                          | 0.056       |                 | 10.4 | 10.0 |      |     | 3.31                                |                          | FHACB631V563□0LGZ0 | HACB2J563□                                        |
|                          | 0.068       |                 | 11.3 | 10.8 |      |     | 3.65                                |                          | FHACB631V683□0LGZ0 | HACB2J683□                                        |
|                          | 0.082       |                 | 12.1 | 11.6 |      |     | 4.01                                |                          | FHACB631V823□0LGZ0 | HACB2J823□                                        |
|                          | 0.1         | 22.7            | 13.1 | 12.5 | 17.5 | 1.0 | 4.42                                |                          | FHACB631V104□0LGZ0 | HACB2J104□                                        |
|                          | 0.12        |                 | 14.0 | 13.4 |      |     | 4.84                                |                          | FHACB631V124□0LGZ0 | HACB2J124□                                        |
|                          | 0.15        |                 | 12.9 | 12.3 |      |     | 3.83                                |                          | FHACB631V154□1LHZ0 | HACB2J154□                                        |
|                          | 0.18        |                 | 13.8 | 13.2 |      |     | 4.19                                |                          | FHACB631V184□1LHZ0 | HACB2J184□                                        |
|                          | 0.22        |                 | 15.1 | 14.4 |      |     | 4.64                                |                          | FHACB631V224□1LHZ0 | HACB2J224□                                        |
|                          | 0.27        |                 | 16.5 | 15.7 |      |     | 5.14                                |                          | FHACB631V274□1LHZ0 | HACB2J274□                                        |
|                          | 0.33        | 27.7            | 18.0 | 17.1 | 22.5 | 1.0 | 5.68                                |                          | FHACB631V334□1LHZ0 | HACB2J334□                                        |
|                          | 0.39        |                 | 19.3 | 18.4 |      |     | 6.17                                |                          | FHACB631V394□1LHZ0 | HACB2J394□                                        |
|                          | 0.47        |                 | 18.4 | 17.5 |      |     | 5.26                                |                          | FHACB631V474□2LEZ0 | HACB2J474□                                        |
|                          | 0.56        |                 | 19.9 | 18.9 |      |     | 5.74                                |                          | FHACB631V564□2LEZ0 | HACB2J564□                                        |
|                          | 0.68        |                 | 21.7 | 20.6 |      |     | 6.33                                |                          | FHACB631V684□2LEZ0 | HACB2J684□                                        |
|                          | 0.82        |                 | 23.6 | 22.5 |      |     | 6.95                                |                          | FHACB631V824□2LEZ0 | HACB2J824□                                        |
|                          | 1.0         | 22.7            | 25.8 | 24.6 | 17.5 | 0.8 | 7.67                                |                          | FHACB631V105□2LEZ0 | HACB2J105□                                        |
|                          | 1.2         |                 | 28.1 | 26.8 |      |     | 8.41                                |                          | FHACB631V125□2LEZ0 | HACB2J125□                                        |
| 1000                     | 0.018       | 17.7            | 8.6  | 8.3  | 12.5 | 0.8 | 2.18                                | 350                      | FHACB102V183□0LGZ0 | HACB3A183□                                        |
|                          | 0.022       |                 | 9.3  | 8.8  |      |     | 2.41                                |                          | FHACB102V223□0LGZ0 | HACB3A223□                                        |
|                          | 0.027       |                 | 9.8  | 9.5  |      |     | 2.66                                |                          | FHACB102V273□0LGZ0 | HACB3A273□                                        |
|                          | 0.033       |                 | 10.7 | 10.2 |      |     | 2.95                                |                          | FHACB102V333□0LGZ0 | HACB3A333□                                        |
|                          | 0.039       |                 | 11.3 | 10.8 |      |     | 3.21                                |                          | FHACB102V393□0LGZ0 | HACB3A393□                                        |
|                          | 0.047       |                 | 12.1 | 11.6 |      |     | 3.52                                |                          | FHACB102V473□0LGZ0 | HACB3A473□                                        |
|                          | 0.056       | 22.7            | 13.0 | 12.4 | 17.5 | 0.8 | 3.84                                |                          | FHACB102V563□0LGZ0 | HACB3A563□                                        |
|                          | 0.068       |                 | 14.0 | 13.4 |      |     | 4.23                                |                          | FHACB102V683□0LGZ0 | HACB3A683□                                        |
|                          | 0.082       |                 | 12.5 | 11.9 |      |     | 3.23                                |                          | FHACB102V823□1LHZ0 | HACB3A823□                                        |
|                          | 0.1         |                 | 13.5 | 12.9 |      |     | 3.56                                |                          | FHACB102V104□1LHZ0 | HACB3A104□                                        |
|                          | 0.12        |                 | 14.6 | 13.9 |      |     | 3.91                                |                          | FHACB102V124□1LHZ0 | HACB3A124□                                        |
|                          | 0.15        |                 | 16.1 | 15.3 |      |     | 4.36                                |                          | FHACB102V154□1LHZ0 | HACB3A154□                                        |
|                          | 0.18        | 22.7            | 17.3 | 16.5 |      |     | 4.79                                |                          | FHACB102V184□1LHZ0 | HACB3A184□                                        |
|                          | 0.22        |                 | 18.9 | 18.0 |      |     | 5.29                                |                          | FHACB102V224□1LHZ0 | HACB3A224□                                        |
|                          |             |                 |      |      |      |     |                                     |                          |                    |                                                   |
|                          |             |                 |      |      |      |     |                                     |                          |                    |                                                   |
|                          |             |                 |      |      |      |     |                                     |                          |                    |                                                   |
|                          |             |                 |      |      |      |     |                                     |                          |                    |                                                   |
|                          |             |                 |      |      |      |     |                                     |                          |                    |                                                   |
|                          |             |                 |      |      |      |     |                                     |                          |                    |                                                   |
|                          |             |                 |      |      |      |     |                                     |                          |                    |                                                   |
|                          |             |                 |      |      |      |     |                                     |                          |                    |                                                   |
|                          |             |                 |      |      |      |     |                                     |                          |                    |                                                   |
|                          |             |                 |      |      |      |     |                                     |                          |                    |                                                   |
|                          |             |                 |      |      |      |     |                                     |                          |                    |                                                   |
|                          |             |                 |      |      |      |     |                                     |                          |                    |                                                   |

(1)The symbol "□" is Capacitance tolerance code. (J : ±5%, H : ±3%)

(2)The maximum ripple current : +85°C max., 100kHz, sine wave

(3)WV(V<sub>ac</sub>) : 50Hz or 60Hz, sine wave

### ◆STANDARD RATINGS

| WV<br>(Vdc) | Cap<br>(µF) | Dimensions (mm) |      |      |      |     | Maximum<br>ripple current<br>(Arms) | WV<br>(Vac) | Part Number        | Previous Part Number<br>(Just for your reference) |
|-------------|-------------|-----------------|------|------|------|-----|-------------------------------------|-------------|--------------------|---------------------------------------------------|
|             |             | W               | H    | T    | F    | φd  |                                     |             |                    |                                                   |
| 1000        | 0.27        | 27.7            | 18.0 | 17.1 | 22.5 | 1.0 | 4.51                                | 350         | FHACB102V274□2LEZ0 | HACB3A274□                                        |
|             | 0.33        |                 | 19.6 | 18.6 |      |     | 4.99                                |             | FHACB102V334□2LEZ0 | HACB3A334□                                        |
|             | 0.39        |                 | 21.1 | 20.1 |      |     | 5.43                                |             | FHACB102V394□2LEZ0 | HACB3A394□                                        |
|             | 0.47        |                 | 22.9 | 21.9 |      |     | 5.96                                |             | FHACB102V474□2LEZ0 | HACB3A474□                                        |
|             | 0.56        |                 | 25.0 | 23.8 |      |     | 6.51                                |             | FHACB102V564□2LEZ0 | HACB3A564□                                        |
|             | 0.68        | 42.7            | 27.3 | 26.0 | 37.5 |     | 7.16                                |             | FHACB102V684□2LEZ0 | HACB3A684□                                        |
|             | 0.82        |                 | 22.8 | 21.8 |      |     | 4.70                                |             | FHACB102V824□4LJZ0 | HACB3A824□                                        |
|             | 1.0         |                 | 25.0 | 23.8 |      |     | 5.19                                |             | FHACB102V105□4LJZ0 | HACB3A105□                                        |
|             | 1.2         |                 | 27.1 | 25.8 |      |     | 5.68                                |             | FHACB102V125□4LJZ0 | HACB3A125□                                        |
| 1250        | 0.012       | 17.7            | 8.5  | 8.2  | 12.5 | 0.8 | 1.95                                | 400         | FHACB1C2V123□0LGZ0 | HACB3B123□                                        |
|             | 0.015       |                 | 9.2  | 8.8  |      |     | 2.18                                |             | FHACB1C2V153□0LGZ0 | HACB3B153□                                        |
|             | 0.018       |                 | 9.8  | 9.3  |      |     | 2.39                                |             | FHACB1C2V183□0LGZ0 | HACB3B183□                                        |
|             | 0.022       |                 | 10.5 | 10.1 |      |     | 2.64                                |             | FHACB1C2V223□0LGZ0 | HACB3B223□                                        |
|             | 0.027       |                 | 11.3 | 10.8 |      |     | 2.92                                |             | FHACB1C2V273□0LGZ0 | HACB3B273□                                        |
|             | 0.033       |                 | 12.2 | 11.7 |      |     | 3.23                                |             | FHACB1C2V333□0LGZ0 | HACB3B333□                                        |
|             | 0.039       |                 | 13.1 | 12.5 |      |     | 3.51                                |             | FHACB1C2V393□0LGZ0 | HACB3B393□                                        |
|             | 0.047       |                 | 14.0 | 13.4 |      |     | 3.86                                |             | FHACB1C2V473□0LGZ0 | HACB3B473□                                        |
|             | 0.056       | 22.7            | 13.3 | 12.7 | 17.5 |     | 3.11                                |             | FHACB1C2V563□1LHZ0 | HACB3B563□                                        |
|             | 0.068       |                 | 14.4 | 13.7 |      |     | 3.43                                |             | FHACB1C2V683□1LHZ0 | HACB3B683□                                        |
|             | 0.082       |                 | 15.5 | 14.8 |      |     | 3.76                                |             | FHACB1C2V823□1LHZ0 | HACB3B823□                                        |
|             | 0.1         |                 | 16.9 | 16.1 |      |     | 4.16                                |             | FHACB1C2V104□1LHZ0 | HACB3B104□                                        |
|             | 0.12        | 27.7            | 18.4 | 17.5 | 22.5 |     | 4.56                                |             | FHACB1C2V124□1LHZ0 | HACB3B124□                                        |
|             | 0.15        |                 | 17.2 | 16.4 |      |     | 3.84                                |             | FHACB1C2V154□2LEZ0 | HACB3B154□                                        |
|             | 0.18        |                 | 18.6 | 17.7 |      |     | 4.21                                |             | FHACB1C2V184□2LEZ0 | HACB3B184□                                        |
|             | 0.22        |                 | 20.3 | 19.3 |      |     | 4.66                                |             | FHACB1C2V224□2LEZ0 | HACB3B224□                                        |
|             | 0.27        |                 | 22.3 | 21.3 |      |     | 5.16                                |             | FHACB1C2V274□2LEZ0 | HACB3B274□                                        |
|             | 0.33        |                 | 24.4 | 23.3 |      |     | 5.70                                |             | FHACB1C2V334□2LEZ0 | HACB3B334□                                        |
|             | 0.39        |                 | 26.3 | 25.1 |      |     | 6.20                                |             | FHACB1C2V394□2LEZ0 | HACB3B394□                                        |
|             | 0.47        |                 | 42.7 | 21.9 |      |     | 20.8                                |             | 37.5               | 4.03                                              |
|             | 0.56        | 23.7            |      | 22.6 | 4.40 |     | FHACB1C2V564□4LJZ0                  |             |                    | HACB3B564□                                        |
|             | 0.68        | 25.8            |      | 24.6 | 4.85 |     | FHACB1C2V684□4LJZ0                  |             |                    | HACB3B684□                                        |
|             | 0.82        | 27.6            |      | 26.3 | 5.32 |     | FHACB1C2V824□4LJZ0                  |             |                    | HACB3B824□                                        |
|             | 1.0         | 27.0            |      | 25.7 | 4.60 |     | FHACB1C2V105□ULWZ0                  |             |                    | HACB3B105□                                        |
| 47.5        |             |                 |      |      |      |     |                                     |             |                    |                                                   |
| 1600        | 0.0047      | 19.7            | 8.8  | 8.5  | 15.0 | 0.8 | 1.32                                | 450         | FHACB162V472□KLDZ0 | HACB3C472□                                        |
|             | 0.0056      |                 | 9.3  | 9.0  |      |     | 1.58                                |             | FHACB162V562□KLDZ0 | HACB3C562□                                        |
|             | 0.0068      |                 | 10.0 | 9.6  |      |     | 1.93                                |             | FHACB162V682□KLDZ0 | HACB3C682□                                        |
|             | 0.0082      |                 | 10.7 | 10.2 |      |     | 2.12                                |             | FHACB162V822□KLDZ0 | HACB3C822□                                        |
|             | 0.01        |                 | 11.5 | 11.0 |      |     | 2.34                                |             | FHACB162V103□KLDZ0 | HACB3C103□                                        |
|             | 0.012       |                 | 12.3 | 11.8 |      |     | 2.56                                |             | FHACB162V123□KLDZ0 | HACB3C123□                                        |
|             | 0.015       |                 | 13.5 | 12.9 |      |     | 2.86                                |             | FHACB162V153□KLDZ0 | HACB3C153□                                        |
|             | 0.018       |                 | 14.6 | 13.9 |      |     | 3.14                                |             | FHACB162V183□KLDZ0 | HACB3C183□                                        |
|             | 0.022       | 22.7            | 15.8 | 15.1 | 17.5 |     | 3.47                                |             | FHACB162V223□KLDZ0 | HACB3C223□                                        |
|             | 0.027       |                 | 13.0 | 12.4 |      |     | 2.61                                |             | FHACB162V273□1LHZ0 | HACB3C273□                                        |
|             | 0.033       |                 | 14.0 | 13.4 |      |     | 2.88                                |             | FHACB162V333□1LHZ0 | HACB3C333□                                        |
|             | 0.039       |                 | 15.1 | 14.4 |      |     | 3.13                                |             | FHACB162V393□1LHZ0 | HACB3C393□                                        |
|             | 0.047       | 27.7            | 16.4 | 15.6 | 22.5 |     | 3.44                                |             | FHACB162V473□1LHZ0 | HACB3C473□                                        |
|             | 0.056       |                 | 17.6 | 16.8 |      |     | 3.75                                |             | FHACB162V563□1LHZ0 | HACB3C563□                                        |
|             | 0.068       |                 | 19.1 | 18.2 |      |     | 4.14                                |             | FHACB162V683□1LHZ0 | HACB3C683□                                        |
|             | 0.082       |                 | 17.4 | 16.6 |      |     | 3.38                                |             | FHACB162V823□2LEZ0 | HACB3C823□                                        |
|             | 0.1         | 42.7            | 19.0 | 18.1 | 37.5 |     | 3.73                                |             | FHACB162V104□2LEZ0 | HACB3C104□                                        |
|             | 0.12        |                 | 20.6 | 19.6 |      |     | 4.09                                |             | FHACB162V124□2LEZ0 | HACB3C124□                                        |
|             | 0.15        |                 | 22.8 | 21.8 |      |     | 4.56                                |             | FHACB162V154□2LEZ0 | HACB3C154□                                        |
|             | 0.18        |                 | 24.7 | 23.6 |      |     | 5.00                                |             | FHACB162V184□2LEZ0 | HACB3C184□                                        |
|             | 0.22        |                 | 27.2 | 25.9 |      |     | 5.53                                |             | FHACB162V224□2LEZ0 | HACB3C224□                                        |
|             | 0.27        |                 | 23.4 | 22.3 |      |     | 3.62                                |             | FHACB162V274□4LJZ0 | HACB3C274□                                        |
|             | 0.33        |                 | 25.9 | 24.7 |      |     | 4.41                                |             | FHACB162V334□4LJZ0 | HACB3C334□                                        |
|             | 0.39        |                 | 27.9 | 26.6 |      |     | 4.84                                |             | FHACB162V394□4LJZ0 | HACB3C394□                                        |

(1)The symbol "□" is Capacitance tolerance code. (J : ±5%, H : ±3%)

(2)The maximum ripple current : +85°C max., 100kHz, sine wave

(3)WV(Vac) : 50Hz or 60Hz, sine wave

◆STANDARD RATINGS

| WV<br>(Vdc) | Cap<br>(μF) | Dimensions (mm) |      |      |      |     | Maximum<br>ripple current<br>(Arms) | WV<br>(Vac) | Part Number        | Previous Part Number<br>(Just for your reference) |
|-------------|-------------|-----------------|------|------|------|-----|-------------------------------------|-------------|--------------------|---------------------------------------------------|
|             |             | W               | H    | T    | F    | φd  |                                     |             |                    |                                                   |
| 2000        | 0.001       | 19.7            | 8.3  | 8.1  | 15.0 | 0.8 | 0.28                                | 450         | FHACB202V102□KLDZ0 | HACB3D102□                                        |
|             | 0.0012      |                 | 9.0  | 8.6  |      |     | 0.34                                |             | FHACB202V122□KLDZ0 | HACB3D122□                                        |
|             | 0.0015      |                 | 9.6  | 9.2  |      |     | 0.42                                |             | FHACB202V152□KLDZ0 | HACB3D152□                                        |
|             | 0.0018      |                 | 9.3  | 9.0  |      |     | 0.51                                |             | FHACB202V182□KLDZ0 | HACB3D182□                                        |
|             | 0.0022      |                 | 10.0 | 9.6  |      |     | 0.62                                |             | FHACB202V222□KLDZ0 | HACB3D222□                                        |
|             | 0.0027      |                 | 8.5  | 8.2  |      |     | 0.76                                |             | FHACB202V272□KLDZ0 | HACB3D272□                                        |
|             | 0.0033      |                 | 9.1  | 8.7  |      |     | 0.93                                |             | FHACB202V332□KLDZ0 | HACB3D332□                                        |
|             | 0.0039      |                 | 9.6  | 9.2  |      |     | 1.10                                |             | FHACB202V392□KLDZ0 | HACB3D392□                                        |
|             | 0.0047      |                 | 10.2 | 9.8  |      |     | 1.33                                |             | FHACB202V472□KLDZ0 | HACB3D472□                                        |
|             | 0.0056      |                 | 11.0 | 10.5 |      |     | 1.53                                |             | FHACB202V562□KLDZ0 | HACB3D562□                                        |
|             | 0.0068      |                 | 11.8 | 11.3 |      |     | 1.92                                |             | FHACB202V682□KLDZ0 | HACB3D682□                                        |
|             | 0.0082      |                 | 12.7 | 12.1 |      |     | 2.32                                |             | FHACB202V822□KLDZ0 | HACB3D822□                                        |
|             | 0.01        |                 | 13.7 | 13.1 |      |     | 2.61                                |             | FHACB202V103□KLDZ0 | HACB3D103□                                        |
|             | 0.012       |                 | 14.8 | 14.1 |      |     | 2.86                                |             | FHACB202V123□KLDZ0 | HACB3D123□                                        |
|             | 0.015       |                 | 16.3 | 15.5 |      |     | 3.21                                |             | FHACB202V153□KLDZ0 | HACB3D153□                                        |
|             | 0.018       | 22.7            | 13.2 | 12.6 | 17.5 | 1.0 | 2.38                                |             | FHACB202V183□1LHZ0 | HACB3D183□                                        |
|             | 0.022       |                 | 14.3 | 13.6 |      |     | 2.63                                |             | FHACB202V223□1LHZ0 | HACB3D223□                                        |
|             | 0.027       |                 | 15.5 | 14.8 |      |     | 2.91                                |             | FHACB202V273□1LHZ0 | HACB3D273□                                        |
|             | 0.033       |                 | 17.0 | 16.2 |      |     | 3.22                                |             | FHACB202V333□1LHZ0 | HACB3D333□                                        |
|             | 0.039       |                 | 18.3 | 17.4 |      |     | 3.50                                |             | FHACB202V393□1LHZ0 | HACB3D393□                                        |
|             | 0.047       | 27.7            | 19.8 | 18.8 |      |     | 3.84                                |             | FHACB202V473□1LHZ0 | HACB3D473□                                        |
|             | 0.056       |                 | 17.9 | 17.0 |      |     | 3.12                                |             | FHACB202V563□2LEZ0 | HACB3D563□                                        |
|             | 0.068       |                 | 19.4 | 18.5 |      |     | 3.44                                |             | FHACB202V683□2LEZ0 | HACB3D683□                                        |
|             | 0.082       |                 | 21.2 | 20.2 |      |     | 3.78                                |             | FHACB202V823□2LEZ0 | HACB3D823□                                        |
|             | 0.1         |                 | 23.2 | 22.1 |      |     | 4.17                                |             | FHACB202V104□2LEZ0 | HACB3D104□                                        |
|             | 0.12        |                 | 25.3 | 24.1 |      |     | 4.56                                |             | FHACB202V124□2LEZ0 | HACB3D124□                                        |
|             | 0.15        |                 | 27.9 | 26.6 |      |     | 5.11                                |             | FHACB202V154□2LEZ0 | HACB3D154□                                        |
|             | 0.18        |                 | 22.1 | 21.1 |      |     | 3.17                                |             | FHACB202V184□4LJZ0 | HACB3D184□                                        |
|             | 0.22        | 42.7            | 24.5 | 23.4 |      |     | 3.56                                |             | FHACB202V224□4LJZ0 | HACB3D224□                                        |
|             | 0.27        |                 | 26.5 | 25.3 |      |     | 3.89                                |             | FHACB202V274□4LJZ0 | HACB3D274□                                        |

(1)The symbol "□" is Capacitance tolerance code. (J : ±5%, H : ±3%)

| WV<br>(Vdc) | Cap<br>(μF) | Dimensions (mm) |      |      |      |     | Maximum<br>ripple current<br>(Arms) | WV<br>(Vac) | Part Number        | Previous Part Number<br>(Just for your reference) |
|-------------|-------------|-----------------|------|------|------|-----|-------------------------------------|-------------|--------------------|---------------------------------------------------|
|             |             | W               | H    | T    | F    | φd  |                                     |             |                    |                                                   |
| 3150        | 0.0047      | 34.7            | 12.0 | 11.5 | 30.0 | 1.0 | 1.68                                | 920         | FHACB3B2V472□LLQZ0 | HACB3F472□                                        |
|             | 0.0056      |                 | 12.9 | 12.3 |      |     | 1.84                                |             | FHACB3B2V562□LLQZ0 | HACB3F562□                                        |
|             | 0.0068      |                 | 13.9 | 13.3 |      |     | 2.02                                |             | FHACB3B2V682□LLQZ0 | HACB3F682□                                        |
|             | 0.0082      |                 | 15.0 | 14.3 |      |     | 2.22                                |             | FHACB3B2V822□LLQZ0 | HACB3F822□                                        |
|             | 0.01        |                 | 16.3 | 15.5 |      |     | 2.45                                |             | FHACB3B2V103□LLQZ0 | HACB3F103□                                        |
|             | 0.012       |                 | 17.5 | 16.7 |      |     | 2.69                                |             | FHACB3B2V123□LLQZ0 | HACB3F123□                                        |
|             | 0.015       |                 | 19.3 | 18.4 |      |     | 3.00                                |             | FHACB3B2V153□LLQZ0 | HACB3F153□                                        |
|             | 0.018       |                 | 20.9 | 19.9 |      |     | 3.29                                |             | FHACB3B2V183□LLQZ0 | HACB3F183□                                        |
|             | 0.022       |                 | 22.9 | 21.9 |      |     | 3.64                                |             | FHACB3B2V223□LLQZ0 | HACB3F223□                                        |
|             | 0.027       |                 | 25.2 | 24.0 |      |     | 4.03                                |             | FHACB3B2V273□LLQZ0 | HACB3F273□                                        |
|             | 0.033       |                 | 27.5 | 26.2 |      |     | 4.46                                |             | FHACB3B2V333□LLQZ0 | HACB3F333□                                        |
| 4000        | 0.0027      | 34.7            | 12.7 | 12.1 | 30.0 | 1.0 | 1.51                                | 920         | FHACB402V272□LLQZ0 | HACB3G272□                                        |
|             | 0.0033      |                 | 13.7 | 13.1 |      |     | 1.67                                |             | FHACB402V332□LLQZ0 | HACB3G332□                                        |
|             | 0.0039      |                 | 14.6 | 13.9 |      |     | 1.81                                |             | FHACB402V392□LLQZ0 | HACB3G392□                                        |
|             | 0.0047      |                 | 15.7 | 15.0 |      |     | 1.99                                |             | FHACB402V472□LLQZ0 | HACB3G472□                                        |
|             | 0.0056      |                 | 17.0 | 16.2 |      |     | 2.17                                |             | FHACB402V562□LLQZ0 | HACB3G562□                                        |
|             | 0.0068      |                 | 18.4 | 17.5 |      |     | 2.39                                |             | FHACB402V682□LLQZ0 | HACB3G682□                                        |
|             | 0.0082      |                 | 20.0 | 19.0 |      |     | 2.63                                |             | FHACB402V822□LLQZ0 | HACB3G822□                                        |
|             | 0.01        |                 | 21.8 | 20.7 |      |     | 2.90                                |             | FHACB402V103□LLQZ0 | HACB3G103□                                        |
|             | 0.012       |                 | 23.7 | 22.6 |      |     | 3.18                                |             | FHACB402V123□LLQZ0 | HACB3G123□                                        |
|             | 0.015       |                 | 26.2 | 25.0 |      |     | 3.55                                |             | FHACB402V153□LLQZ0 | HACB3G153□                                        |
|             | 0.018       |                 | 28.5 | 27.1 |      |     | 3.89                                |             | FHACB402V183□LLQZ0 | HACB3G183□                                        |

(1)The symbol "□" is Capacitance tolerance code. (J : ±5%, K : ±10%)

(2)The maximum ripple current : +85°C max., 100kHz, sine wave

(3)WV(Vac) : 50Hz or 60Hz, sine wave

◆DIMENSIONS (mm)

