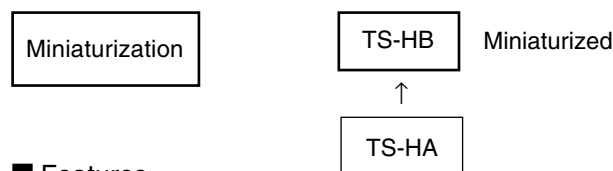


# Aluminium Electrolytic Capacitors (Type Snap-in Series HB)

Japan  
U.S.A.  
Malaysia

Series: **HB**

Type: **TS (Snap-in)**



## ■ Features

- Lifetime: 105 °C 2000 h
- Snap-in terminals
- 20 to 25 % smaller than series TS-HA

## ■ Recommended Applications

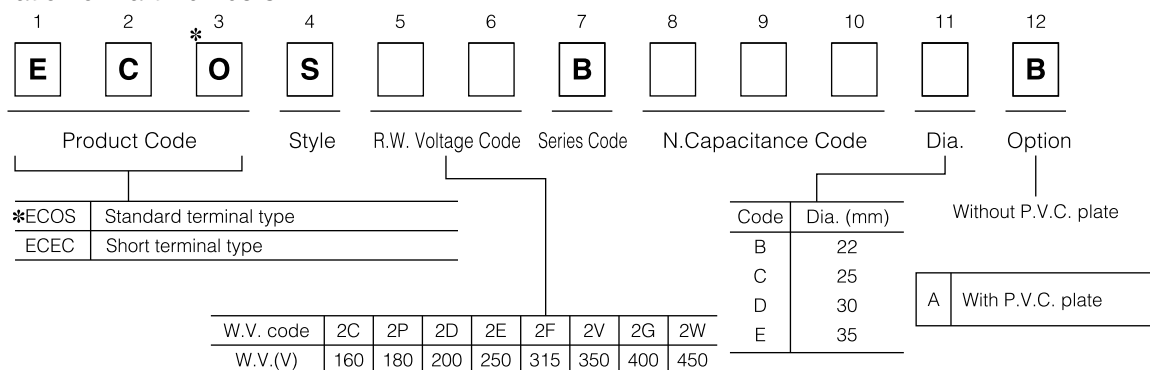
- Smoothing circuits, AC adaptor, Inverter lighting system

## ■ Specifications

|                                                   |                                                                                                                                                                  |            |                                    |      |                 |                           |      |        |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------------------------|------|-----------------|---------------------------|------|--------|
| Operating Temp. Range                             | -40 to +105 °C                                                                                                                                                   |            |                                    |      | -25 to +105 °C  |                           |      |        |
| Rated W.V. Range                                  | 160 to 250 V.DC                                                                                                                                                  |            |                                    |      | 315 to 450 V.DC |                           |      |        |
| Nominal Cap. Range                                | 330 to 2700 µF                                                                                                                                                   |            |                                    |      | 82 to 820 µF    |                           |      |        |
| Capacitance Tolerance                             | ±20 % (120 Hz/+20 °C)                                                                                                                                            |            |                                    |      |                 |                           |      |        |
| DC Leakage Current                                | 3√CV (µA) max. after 5 minutes application of rated working voltage at +20 °C.<br>C: Capacitance (µF)      V: W.V. (V.DC)                                        |            |                                    |      |                 |                           |      |        |
| Dissipation Factor                                | W.V. (V)                                                                                                                                                         | 160 to 400 |                                    | 450  |                 | (120 Hz/+20 °C)<br>(max.) |      |        |
|                                                   | D.F.                                                                                                                                                             | 0.15       |                                    | 0.20 |                 |                           |      |        |
| Frequency Correction<br>Factor for Ripple Current | Frequency (Hz)                                                                                                                                                   | 50         | 60                                 | 100  | 120             | 500                       | 1 k  | 10 k ~ |
|                                                   | C.F.                                                                                                                                                             | 0.75       | 0.80                               | 0.95 | 1.00            | 1.20                      | 1.25 | 1.40   |
| Endurance                                         | After 2000 hours application of DC voltage with specified ripple current (≤ rated DC working voltage) at +105 °C, the capacitor shall meet the following limits. |            |                                    |      |                 |                           |      |        |
|                                                   | Capacitance change                                                                                                                                               |            | ±20 % of initial measured value    |      |                 |                           |      |        |
|                                                   | D.F.                                                                                                                                                             |            | ≤ 200 % of initial specified value |      |                 |                           |      |        |
|                                                   | DC leakage current                                                                                                                                               |            | ≤ Initial specified value          |      |                 |                           |      |        |
| Shelf Life                                        | After storage for 1000 hours at +105 °C with no voltage applied, the capacitor shall meet the specified limits for “Endurance”.                                  |            |                                    |      |                 |                           |      |        |

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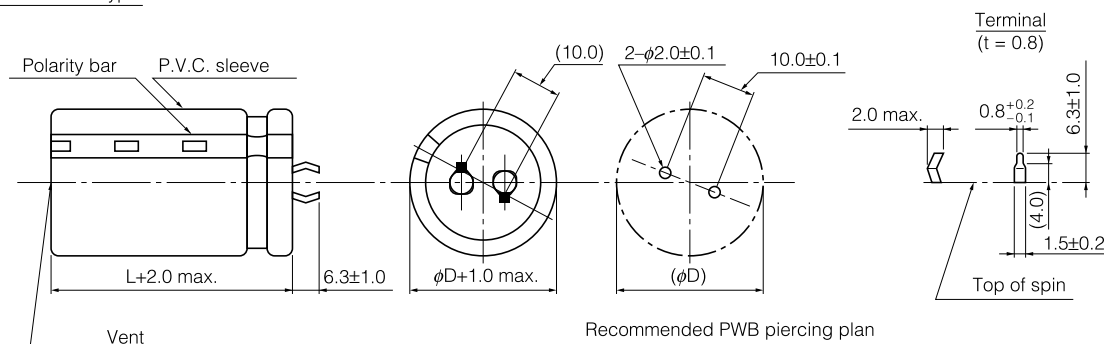
### ■ Explanation of Part Numbers



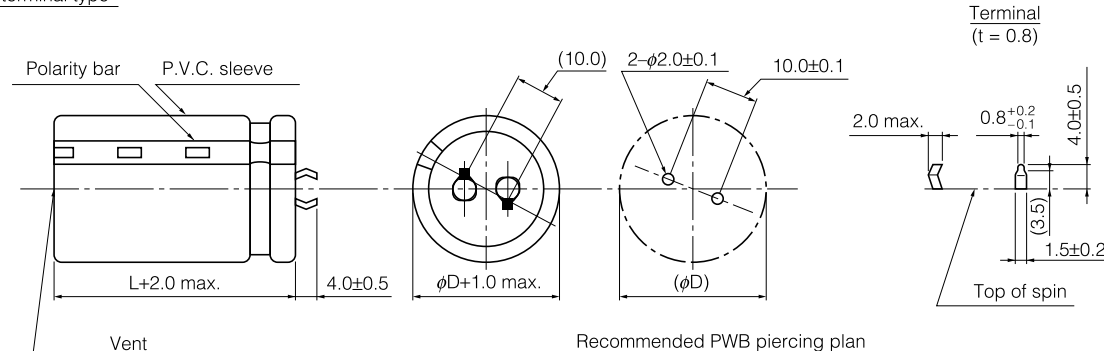
\*Our product code will be changed from ECO to ECE during April 1998 to March 2000  
We will inform the revision date before our change.

### ■ Dimensions in mm (not to scale)

#### ● Standard terminal type



#### ● Short terminal type



■ Standard Products

| W.V.<br>(V) | Cap.<br>( $\pm 20\%$ )<br>( $\mu\text{F}$ ) | Case size    |                | Specification                                   |      | Part No.                                         |                                               | MinPackagingQty<br>(pcs) |
|-------------|---------------------------------------------|--------------|----------------|-------------------------------------------------|------|--------------------------------------------------|-----------------------------------------------|--------------------------|
|             |                                             | Dia.<br>(mm) | Length<br>(mm) | Ripple<br>current<br>(120Hz)<br>(+105°C)<br>(A) | D.F. | (Standard Terminals)<br>Terminal Length<br>6.3mm | (Short Terminals)<br>Terminal Length<br>4.0mm |                          |
| 160         | 470                                         | 22           | 30             | 1.4                                             | 0.15 | ECOS2CB471BB                                     | ECEC2CB471BB                                  | 200                      |
|             | 560                                         | 22           | 35             | 1.5                                             | 0.15 | ECOS2CB561BB                                     | ECEC2CB561BB                                  | 200                      |
|             | 680                                         | 22           | 40             | 1.7                                             | 0.15 | ECOS2CB681BB                                     | ECEC2CB681BB                                  | 200                      |
|             |                                             | 25           | 30             | 1.7                                             | 0.15 | ECOS2CB681CB                                     | ECEC2CB681CB                                  | 200                      |
|             | 820                                         | 22           | 45             | 2.0                                             | 0.15 | ECOS2CB821BB                                     | ECEC2CB821BB                                  | 200                      |
|             |                                             | 25           | 35             | 2.0                                             | 0.15 | ECOS2CB821CB                                     | ECEC2CB821CB                                  | 200                      |
|             | 1000                                        | 22           | 50             | 2.2                                             | 0.15 | ECOS2CB102BB                                     | ECEC2CB102BB                                  | 200                      |
|             |                                             | 25           | 40             | 2.2                                             | 0.15 | ECOS2CB102CB                                     | ECEC2CB102CB                                  | 200                      |
|             |                                             | 30           | 30             | 2.2                                             | 0.15 | ECOS2CB102DB                                     | ECEC2CB102DB                                  | 100                      |
|             |                                             | 35           | 25             | 2.2                                             | 0.15 | ECOS2CB102EB                                     | ECEC2CB102EB                                  | 100                      |
|             | 1200                                        | 25           | 45             | 2.3                                             | 0.15 | ECOS2CB122CB                                     | ECEC2CB122CB                                  | 200                      |
|             |                                             | 30           | 35             | 2.3                                             | 0.15 | ECOS2CB122DB                                     | ECEC2CB122DB                                  | 100                      |
|             |                                             | 35           | 30             | 2.3                                             | 0.15 | ECOS2CB122EB                                     | ECEC2CB122EB                                  | 100                      |
|             | 1500                                        | 30           | 40             | 2.5                                             | 0.15 | ECOS2CB152DB                                     | ECEC2CB152DB                                  | 100                      |
|             |                                             | 35           | 30             | 2.5                                             | 0.15 | ECOS2CB152EB                                     | ECEC2CB152EB                                  | 100                      |
|             | 1800                                        | 30           | 45             | 2.7                                             | 0.15 | ECOS2CB182DB                                     | ECEC2CB182DB                                  | 100                      |
|             |                                             | 35           | 35             | 2.7                                             | 0.15 | ECOS2CB182EB                                     | ECEC2CB182EB                                  | 100                      |
|             | 2200                                        | 35           | 45             | 2.9                                             | 0.15 | ECOS2CB222EB                                     | ECEC2CB222EB                                  | 100                      |
|             | 2700                                        | 35           | 50             | 3.1                                             | 0.15 | ECOS2CB272EB                                     | ECEC2CB272EB                                  | 100                      |
| 180         | 560                                         | 25           | 30             | 1.5                                             | 0.15 | ECOS2PB561CB                                     | ECEC2PB561CB                                  | 200                      |
|             | 680                                         | 22           | 45             | 1.7                                             | 0.15 | ECOS2PB681BB                                     | ECEC2PB681BB                                  | 200                      |
|             |                                             | 25           | 35             | 1.7                                             | 0.15 | ECOS2PB681CB                                     | ECEC2PB681CB                                  | 200                      |
|             | 820                                         | 22           | 50             | 2.0                                             | 0.15 | ECOS2PB821BB                                     | ECEC2PB821BB                                  | 200                      |
|             |                                             | 25           | 40             | 2.0                                             | 0.15 | ECOS2PB821CB                                     | ECEC2PB821CB                                  | 200                      |
|             |                                             | 30           | 30             | 2.0                                             | 0.15 | ECOS2PB821DB                                     | ECEC2PB821DB                                  | 100                      |
|             | 1000                                        | 25           | 45             | 2.2                                             | 0.15 | ECOS2PB102CB                                     | ECEC2PB102CB                                  | 200                      |
|             |                                             | 30           | 35             | 2.2                                             | 0.15 | ECOS2PB102DB                                     | ECEC2PB102DB                                  | 100                      |
|             | 1200                                        | 25           | 50             | 2.3                                             | 0.15 | ECOS2PB122CB                                     | ECEC2PB122CB                                  | 200                      |
|             |                                             | 30           | 40             | 2.3                                             | 0.15 | ECOS2PB122DB                                     | ECEC2PB122DB                                  | 100                      |
|             |                                             | 35           | 30             | 2.3                                             | 0.15 | ECOS2PB122EB                                     | ECEC2PB122EB                                  | 100                      |
|             | 1500                                        | 30           | 45             | 2.5                                             | 0.15 | ECOS2PB152DB                                     | ECEC2PB152DB                                  | 100                      |
|             |                                             | 35           | 35             | 2.5                                             | 0.15 | ECOS2PB152EB                                     | ECEC2PB152EB                                  | 100                      |
| 200         | 390                                         | 22           | 30             | 1.3                                             | 0.15 | ECOS2DB391BB                                     | ECEC2DB391BB                                  | 200                      |
|             |                                             | 25           | 25             | 1.3                                             | 0.15 | ECOS2DB391CB                                     | ECEC2DB391CB                                  | 200                      |
|             | 470                                         | 22           | 35             | 1.4                                             | 0.15 | ECOS2DB471BB                                     | ECEC2DB471BB                                  | 200                      |
|             |                                             | 25           | 30             | 1.4                                             | 0.15 | ECOS2DB471CB                                     | ECEC2DB471CB                                  | 200                      |
|             | 560                                         | 22           | 40             | 1.5                                             | 0.15 | ECOS2DB561BB                                     | ECEC2DB561BB                                  | 200                      |
|             |                                             | 25           | 30             | 1.5                                             | 0.15 | ECOS2DB561CB                                     | ECEC2DB561CB                                  | 200                      |
|             |                                             | 30           | 25             | 1.5                                             | 0.15 | ECOS2DB561DB                                     | ECEC2DB561DB                                  | 100                      |
|             | 680                                         | 22           | 45             | 1.7                                             | 0.15 | ECOS2DB681BB                                     | ECEC2DB681BB                                  | 200                      |
|             |                                             | 25           | 35             | 1.7                                             | 0.15 | ECOS2DB681CB                                     | ECEC2DB681CB                                  | 200                      |
|             | 820                                         | 25           | 45             | 2.0                                             | 0.15 | ECOS2DB821CB                                     | ECEC2DB821CB                                  | 200                      |

High temperature Load Life test : 105°C 2000h

Terminal Pitch : 10mm

When capacitors of  $\phi 35 \times 45\text{L}$  and  $\phi 35 \times 50\text{L}$  are mounted on PWB, reinforce them with mounting clamp or adhesives.(Avoid using adhesives including halogenated compositions.)

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■ Standard Products

| W.V.<br>(V) | Cap.<br>( $\pm 20\%$ )<br>( $\mu\text{F}$ ) | Case size    |                | Specification                                   |      | Part No.                                         |                                               | MinPackagingQty<br>(pcs) |
|-------------|---------------------------------------------|--------------|----------------|-------------------------------------------------|------|--------------------------------------------------|-----------------------------------------------|--------------------------|
|             |                                             | Dia.<br>(mm) | Length<br>(mm) | Ripple<br>current<br>(120Hz)<br>(+105°C)<br>(A) | D.F. | (Standard Terminals)<br>Terminal Length<br>6.3mm | (Short Terminals)<br>Terminal Length<br>4.0mm |                          |
| 200         | 820                                         | 30           | 30             | 2.0                                             | 0.15 | ECOS2DB821DB                                     | ECEC2DB821DB                                  | 100                      |
|             |                                             | 35           | 25             | 2.0                                             | 0.15 | ECOS2DB821EB                                     | ECEC2DB821EB                                  | 100                      |
|             | 1000                                        | 25           | 50             | 2.2                                             | 0.15 | ECOS2DB102CB                                     | ECEC2DB102CB                                  | 200                      |
|             |                                             | 30           | 35             | 2.2                                             | 0.15 | ECOS2DB102DB                                     | ECEC2DB102DB                                  | 100                      |
|             |                                             | 35           | 30             | 2.2                                             | 0.15 | ECOS2DB102EB                                     | ECEC2DB102EB                                  | 100                      |
|             | 1200                                        | 30           | 40             | 2.3                                             | 0.15 | ECOS2DB122DB                                     | ECEC2DB122DB                                  | 100                      |
|             |                                             | 35           | 35             | 2.3                                             | 0.15 | ECOS2DB122EB                                     | ECEC2DB122EB                                  | 100                      |
|             | 1500                                        | 30           | 50             | 2.5                                             | 0.15 | ECOS2DB152DB                                     | ECEC2DB152DB                                  | 100                      |
|             |                                             | 35           | 40             | 2.5                                             | 0.15 | ECOS2DB152EB                                     | ECEC2DB152EB                                  | 100                      |
|             | 1800                                        | 35           | 45             | 2.7                                             | 0.15 | ECOS2DB182EB                                     | ECEC2DB182EB                                  | 100                      |
| 250         | 2200                                        | 35           | 50             | 2.9                                             | 0.15 | ECOS2DB222EB                                     | ECEC2DB222EB                                  | 100                      |
|             | 330                                         | 25           | 30             | 1.2                                             | 0.15 | ECOS2EB331CB                                     | ECEC2EB331CB                                  | 200                      |
|             | 390                                         | 30           | 25             | 1.3                                             | 0.15 | ECOS2EB391DB                                     | ECEC2EB391DB                                  | 100                      |
|             | 470                                         | 22           | 50             | 1.4                                             | 0.15 | ECOS2EB471BB                                     | ECEC2EB471BB                                  | 200                      |
|             |                                             | 25           | 40             | 1.4                                             | 0.15 | ECOS2EB471CB                                     | ECEC2EB471CB                                  | 200                      |
|             |                                             | 30           | 30             | 1.4                                             | 0.15 | ECOS2EB471DB                                     | ECEC2EB471DB                                  | 100                      |
|             | 560                                         | 25           | 45             | 1.5                                             | 0.15 | ECOS2EB561CB                                     | ECEC2EB561CB                                  | 200                      |
|             |                                             | 35           | 25             | 1.5                                             | 0.15 | ECOS2EB561EB                                     | ECEC2EB561EB                                  | 100                      |
|             | 680                                         | 25           | 50             | 1.7                                             | 0.15 | ECOS2EB681CB                                     | ECEC2EB681CB                                  | 200                      |
|             |                                             | 30           | 40             | 1.7                                             | 0.15 | ECOS2EB681DB                                     | ECEC2EB681DB                                  | 100                      |
|             |                                             | 35           | 30             | 1.7                                             | 0.15 | ECOS2EB681EB                                     | ECEC2EB681EB                                  | 100                      |
|             | 820                                         | 30           | 45             | 2.0                                             | 0.15 | ECOS2EB821DB                                     | ECEC2EB821DB                                  | 100                      |
|             |                                             | 35           | 35             | 2.0                                             | 0.15 | ECOS2EB821EB                                     | ECEC2EB821EB                                  | 100                      |
|             | 1000                                        | 30           | 50             | 2.2                                             | 0.15 | ECOS2EB102DB                                     | ECEC2EB102DB                                  | 100                      |
|             |                                             | 35           | 40             | 2.2                                             | 0.15 | ECOS2EB102EB                                     | ECEC2EB102EB                                  | 100                      |
|             | 1200                                        | 35           | 45             | 2.3                                             | 0.15 | ECOS2EB122EB                                     | ECEC2EB122EB                                  | 100                      |
|             | 1500                                        | 35           | 50             | 2.5                                             | 0.15 | ECOS2EB152EB                                     | ECEC2EB152EB                                  | 100                      |
| 315         | 180                                         | 25           | 30             | 0.9                                             | 0.15 | ECOS2FB181CB                                     | ECEC2FB181CB                                  | 200                      |
|             | 220                                         | 25           | 35             | 1.0                                             | 0.15 | ECOS2FB221CB                                     | ECEC2FB221CB                                  | 200                      |
|             |                                             | 30           | 25             | 1.0                                             | 0.15 | ECOS2FB221DB                                     | ECEC2FB221DB                                  | 100                      |
|             | 270                                         | 22           | 50             | 1.1                                             | 0.15 | ECOS2FB271BB                                     | ECEC2FB271BB                                  | 200                      |
|             |                                             | 25           | 40             | 1.1                                             | 0.15 | ECOS2FB271CB                                     | ECEC2FB271CB                                  | 200                      |
|             |                                             | 30           | 30             | 1.1                                             | 0.15 | ECOS2FB271DB                                     | ECEC2FB271DB                                  | 100                      |
|             | 330                                         | 25           | 45             | 1.2                                             | 0.15 | ECOS2FB331CB                                     | ECEC2FB331CB                                  | 200                      |
|             |                                             | 30           | 35             | 1.2                                             | 0.15 | ECOS2FB331DB                                     | ECEC2FB331DB                                  | 100                      |
|             | 390                                         | 25           | 50             | 1.3                                             | 0.15 | ECOS2FB391CB                                     | ECEC2FB391CB                                  | 200                      |
|             |                                             | 30           | 40             | 1.3                                             | 0.15 | ECOS2FB391DB                                     | ECEC2FB391DB                                  | 100                      |
|             |                                             | 35           | 30             | 1.3                                             | 0.15 | ECOS2FB391EB                                     | ECEC2FB391EB                                  | 100                      |
|             | 470                                         | 30           | 45             | 1.4                                             | 0.15 | ECOS2FB471DB                                     | ECEC2FB471DB                                  | 100                      |
|             |                                             | 35           | 35             | 1.4                                             | 0.15 | ECOS2FB471EB                                     | ECEC2FB471EB                                  | 100                      |
|             | 560                                         | 30           | 50             | 1.5                                             | 0.15 | ECOS2FB561DB                                     | ECEC2FB561DB                                  | 100                      |
|             |                                             | 35           | 40             | 1.5                                             | 0.15 | ECOS2FB561EB                                     | ECEC2FB561EB                                  | 100                      |

High temperature Load Life test : 105°C 2000h

Terminal Pitch : 10mm

When capacitors of  $\phi 35 \times 45\text{L}$  and  $\phi 35 \times 50\text{L}$  are mounted on PWB, reinforce them with mounting clamp or adhesives.(Avoid using adhesives including halogenated compositions.)

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■ Standard Products

| W.V.<br>(V) | Cap.<br>( $\pm 20\%$ )<br>( $\mu\text{F}$ ) | Case size    |                | Specification                                   |      | Part No.                                         |                                               | MinPackagingQty<br>(pcs) |
|-------------|---------------------------------------------|--------------|----------------|-------------------------------------------------|------|--------------------------------------------------|-----------------------------------------------|--------------------------|
|             |                                             | Dia.<br>(mm) | Length<br>(mm) | Ripple<br>current<br>(120Hz)<br>(+105°C)<br>(A) | D.F. | (Standard Terminals)<br>Terminal Length<br>6.3mm | (Short Terminals)<br>Terminal Length<br>4.0mm |                          |
| 315         | 680                                         | 35           | 45             | 1.7                                             | 0.15 | ECOS2FB681EB                                     | ECEC2FB681EB                                  | 100                      |
|             | 820                                         | 35           | 50             | 2.0                                             | 0.15 | ECOS2FB821EB                                     | ECEC2FB821EB                                  | 100                      |
| 350         | 120                                         | 22           | 30             | 0.75                                            | 0.15 | ECOS2VB121BB                                     | ECEC2VB121BB                                  | 200                      |
|             |                                             | 25           | 25             | 0.75                                            | 0.15 | ECOS2VB121CB                                     | ECEC2VB121CB                                  | 200                      |
|             | 150                                         | 22           | 35             | 0.82                                            | 0.15 | ECOS2VB151BB                                     | ECEC2VB151BB                                  | 200                      |
|             |                                             | 22           | 40             | 0.90                                            | 0.15 | ECOS2VB181BB                                     | ECEC2VB181BB                                  | 200                      |
|             | 180                                         | 25           | 30             | 0.90                                            | 0.15 | ECOS2VB181CB                                     | ECEC2VB181CB                                  | 200                      |
|             |                                             | 30           | 25             | 0.90                                            | 0.15 | ECOS2VB181DB                                     | ECEC2VB181DB                                  | 100                      |
|             |                                             | 22           | 45             | 1.0                                             | 0.15 | ECOS2VB221BB                                     | ECEC2VB221BB                                  | 200                      |
|             | 220                                         | 25           | 35             | 1.0                                             | 0.15 | ECOS2VB221CB                                     | ECEC2VB221CB                                  | 200                      |
|             |                                             | 25           | 45             | 1.1                                             | 0.15 | ECOS2VB271CB                                     | ECEC2VB271CB                                  | 200                      |
|             |                                             | 30           | 30             | 1.1                                             | 0.15 | ECOS2VB271DB                                     | ECEC2VB271DB                                  | 100                      |
|             | 270                                         | 35           | 25             | 1.1                                             | 0.15 | ECOS2VB271EB                                     | ECEC2VB271EB                                  | 100                      |
|             |                                             | 25           | 50             | 1.2                                             | 0.15 | ECOS2VB331CB                                     | ECEC2VB331CB                                  | 200                      |
|             |                                             | 30           | 40             | 1.2                                             | 0.15 | ECOS2VB331DB                                     | ECEC2VB331DB                                  | 100                      |
|             | 330                                         | 35           | 30             | 1.2                                             | 0.15 | ECOS2VB331EB                                     | ECEC2VB331EB                                  | 100                      |
|             |                                             | 30           | 45             | 1.3                                             | 0.15 | ECOS2VB391DB                                     | ECEC2VB391DB                                  | 100                      |
|             |                                             | 35           | 30             | 1.3                                             | 0.15 | ECOS2VB391EB                                     | ECEC2VB391EB                                  | 100                      |
|             | 470                                         | 30           | 50             | 1.4                                             | 0.15 | ECOS2VB471DB                                     | ECEC2VB471DB                                  | 100                      |
|             |                                             | 35           | 45             | 1.5                                             | 0.15 | ECOS2VB561EB                                     | ECEC2VB561EB                                  | 100                      |
|             | 680                                         | 35           | 50             | 1.7                                             | 0.15 | ECOS2VB681EB                                     | ECEC2VB681EB                                  | 100                      |
| 400         | 82                                          | 22           | 30             | 0.64                                            | 0.15 | ECOS2GB820BB                                     | ECEC2GB820BB                                  | 200                      |
|             |                                             | 22           | 30             | 0.69                                            | 0.15 | ECOS2GB101BB                                     | ECEC2GB101BB                                  | 200                      |
|             | 100                                         | 25           | 25             | 0.69                                            | 0.15 | ECOS2GB101CB                                     | ECEC2GB101CB                                  | 200                      |
|             |                                             | 22           | 35             | 0.75                                            | 0.15 | ECOS2GB121BB                                     | ECEC2GB121BB                                  | 200                      |
|             | 120                                         | 25           | 30             | 0.75                                            | 0.15 | ECOS2GB121CB                                     | ECEC2GB121CB                                  | 200                      |
|             |                                             | 22           | 40             | 0.82                                            | 0.15 | ECOS2GB151BB                                     | ECEC2GB151BB                                  | 200                      |
|             |                                             | 25           | 30             | 0.82                                            | 0.15 | ECOS2GB151CB                                     | ECEC2GB151CB                                  | 200                      |
|             | 150                                         | 30           | 25             | 0.82                                            | 0.15 | ECOS2GB151DB                                     | ECEC2GB151DB                                  | 100                      |
|             |                                             | 22           | 45             | 0.90                                            | 0.15 | ECOS2GB181BB                                     | ECEC2GB181BB                                  | 200                      |
|             |                                             | 25           | 35             | 0.90                                            | 0.15 | ECOS2GB181CB                                     | ECEC2GB181CB                                  | 200                      |
|             | 180                                         | 30           | 30             | 0.90                                            | 0.15 | ECOS2GB181DB                                     | ECEC2GB181DB                                  | 100                      |
|             |                                             | 25           | 45             | 1.0                                             | 0.15 | ECOS2GB221CB                                     | ECEC2GB221CB                                  | 200                      |
|             |                                             | 30           | 30             | 1.0                                             | 0.15 | ECOS2GB221DB                                     | ECEC2GB221DB                                  | 100                      |
|             | 220                                         | 35           | 25             | 1.0                                             | 0.15 | ECOS2GB221EB                                     | ECEC2GB221EB                                  | 100                      |
|             |                                             | 25           | 50             | 1.1                                             | 0.15 | ECOS2GB271CB                                     | ECEC2GB271CB                                  | 200                      |
|             |                                             | 30           | 35             | 1.1                                             | 0.15 | ECOS2GB271DB                                     | ECEC2GB271DB                                  | 100                      |
|             | 270                                         | 35           | 30             | 1.1                                             | 0.15 | ECOS2GB271EB                                     | ECEC2GB271EB                                  | 100                      |
|             |                                             | 30           | 45             | 1.2                                             | 0.15 | ECOS2GB331DB                                     | ECEC2GB331DB                                  | 100                      |
|             |                                             | 35           | 35             | 1.2                                             | 0.15 | ECOS2GB331EB                                     | ECEC2GB331EB                                  | 100                      |
|             | 330                                         | 30           | 50             | 1.3                                             | 0.15 | ECOS2GB391DB                                     | ECEC2GB391DB                                  | 100                      |
|             |                                             | 35           | 40             | 1.3                                             | 0.15 | ECOS2GB391EB                                     | ECEC2GB391EB                                  | 100                      |

High temperature Load Life test : 105°C 2000h

Terminal Pitch : 10mm

When capacitors of  $\phi 35 \times 45\text{L}$  and  $\phi 35 \times 50\text{L}$  are mounted on PWB, reinforce them with mounting clamp or adhesives.(Avoid using adhesives including halogenated compositions.)

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Whenever a doubt about safety arises from this product, please inform us immediately for technical consultation without fail.

■ Standard Products

| W.V.<br>(V) | Cap.<br>(±20%)<br>(μF) | Case size    |                | Specification                                   |      | Part No.                                         |                                               | MinPackagingQ'ty<br>(pcs) |
|-------------|------------------------|--------------|----------------|-------------------------------------------------|------|--------------------------------------------------|-----------------------------------------------|---------------------------|
|             |                        | Dia.<br>(mm) | Length<br>(mm) | Ripple<br>current<br>(120Hz)<br>(+105°C)<br>(A) | D.F. | (Standard Terminals)<br>Terminal Length<br>6.3mm | (Short Terminals)<br>Terminal Length<br>4.0mm |                           |
| 400         | 470                    | 35           | 45             | 1.40                                            | 0.15 | ECOS2GB471EB                                     | ECEC2GB471EB                                  | 100                       |
|             | 560                    | 35           | 50             | 1.50                                            | 0.15 | ECOS2GB561EB                                     | ECEC2GB561EB                                  | 100                       |
| 450         | 82                     | 22           | 30             | 0.56                                            | 0.20 | ECOS2WB820BB                                     | ECEC2WB820BB                                  | 200                       |
|             | 100                    | 22           | 35             | 0.64                                            | 0.20 | ECOS2WB101BB                                     | ECEC2WB101BB                                  | 200                       |
|             |                        | 25           | 30             | 0.64                                            | 0.20 | ECOS2WB101CB                                     | ECEC2WB101CB                                  | 200                       |
|             | 120                    | 22           | 40             | 0.72                                            | 0.20 | ECOS2WB121BB                                     | ECEC2WB121BB                                  | 200                       |
|             |                        | 25           | 35             | 0.72                                            | 0.20 | ECOS2WB121CB                                     | ECEC2WB121CB                                  | 200                       |
|             | 150                    | 22           | 50             | 0.79                                            | 0.20 | ECOS2WB151BB                                     | ECEC2WB151BB                                  | 200                       |
|             |                        | 25           | 40             | 0.79                                            | 0.20 | ECOS2WB151CB                                     | ECEC2WB151CB                                  | 200                       |
|             |                        | 30           | 30             | 0.79                                            | 0.20 | ECOS2WB151DB                                     | ECEC2WB151DB                                  | 100                       |
|             | 180                    | 25           | 45             | 0.87                                            | 0.20 | ECOS2WB181CB                                     | ECEC2WB181CB                                  | 200                       |
|             |                        | 30           | 35             | 0.87                                            | 0.20 | ECOS2WB181DB                                     | ECEC2WB181DB                                  | 100                       |
|             | 220                    | 25           | 50             | 1.00                                            | 0.20 | ECOS2WB221CB                                     | ECEC2WB221CB                                  | 200                       |
|             |                        | 30           | 40             | 1.00                                            | 0.20 | ECOS2WB221DB                                     | ECEC2WB221DB                                  | 100                       |
|             | 270                    | 30           | 45             | 1.19                                            | 0.20 | ECOS2WB271DB                                     | ECEC2WB271DB                                  | 100                       |
|             |                        | 35           | 35             | 1.19                                            | 0.20 | ECOS2WB271EB                                     | ECEC2WB271EB                                  | 100                       |
|             | 330                    | 30           | 50             | 1.38                                            | 0.20 | ECOS2WB331DB                                     | ECEC2WB331DB                                  | 100                       |
|             |                        | 35           | 40             | 1.38                                            | 0.20 | ECOS2WB331EB                                     | ECEC2WB331EB                                  | 100                       |
|             | 390                    | 35           | 45             | 1.55                                            | 0.20 | ECOS2WB391EB                                     | ECEC2WB391EB                                  | 100                       |
|             | 470                    | 35           | 50             | 1.74                                            | 0.20 | ECOS2WB471EB                                     | ECEC2WB471EB                                  | 100                       |

High temperature Load Life test : 105°C 2000h

Terminal Pitch : 10mm

When capacitors of  $\phi 35 \times 45L$  and  $\phi 35 \times 50L$  are mounted on PWB, reinforce them with mounting clamp or adhesives.(Avoid using adhesives including halogenated compositions.)