

## Surface Mount Type

## SP-Cap

Series: **FD, CD, UD, UE**

**Old series**

### [Our Requests]

Since this series is old, we don't recommend you to adopt it but CX & SX series for your new design.



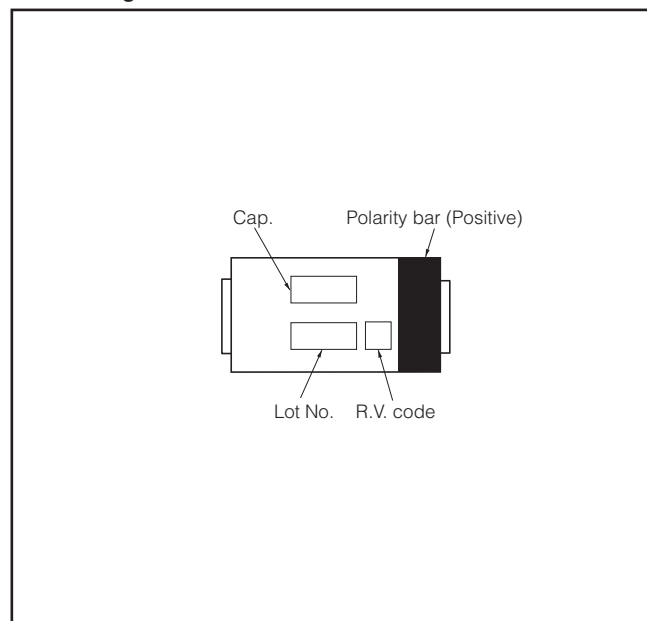
### ■ Features

- Low ESR
- Excellent Noise-absorbent Characteristics
- RoHS directive compliant

### ■ Specifications

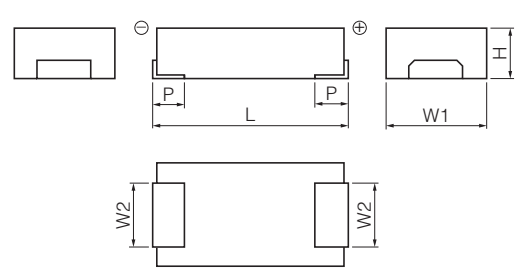
| Series & Size Code    | FD                                                                                                                                                                                        | CD                                 | UD                     | UE               |                   |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|------------------------|------------------|-------------------|
| Category Temp. Range  | -40 °C to +105 °C                                                                                                                                                                         |                                    |                        |                  |                   |
| Rated Voltage Range   | 2 V.DC to 12.5 V.DC                                                                                                                                                                       | 2 V.DC to 16 V.DC                  | 2 V.DC to 8 V.DC       | 2 V.DC to 8 V.DC |                   |
| Nominal Cap.Range     | 15 µF to 68 µF                                                                                                                                                                            | 2.2 µF to 220 µF                   | 68 µF to 470 µF        | 100 µF to 560 µF |                   |
| Capacitance Tolerance | ±20 %                                                                                                                                                                                     |                                    |                        |                  |                   |
| DC Leakage Current    | Reflow 240 °C : I ≤ 0.06 CV (µA) 2minutes (2 V.DC to 4 V.DC)<br>I ≤ 0.04 CV or 3 (µA) 2 minutes (6.3 V.DC to 16 V.DC) (Whichever is greater)<br>Reflow 260 °C : I ≤ 0.1 CV (µA) 2 minutes |                                    |                        |                  |                   |
| tan δ                 | ≤ 0.06 (120 Hz/+20 °C)                                                                                                                                                                    |                                    | ≤ 0.10 (120 Hz/+20 °C) |                  |                   |
| Surge Voltage         | Rated Voltage × 1.25 (15 °C to 35 °C)                                                                                                                                                     |                                    |                        |                  |                   |
| Endurance             | After applying rated voltage for 1000 hours at 105 °C±2 °C, and then being stabilized at +20 °C, capacitor shall meet the following limits.                                               |                                    |                        |                  |                   |
|                       | Capacitance change                                                                                                                                                                        | ±10% of initial measured value     |                        |                  |                   |
|                       | tan δ                                                                                                                                                                                     | ≤ Initial specified value          |                        |                  |                   |
|                       | DC leakage current                                                                                                                                                                        | ≤ Initial specified value          |                        |                  |                   |
| Moisture resistance   | After storing for 500 hours at 60 °C, 90 %                                                                                                                                                |                                    |                        |                  |                   |
|                       | Capacitance change of initial measurd value                                                                                                                                               | 2, 2.5 V.DC                        | 4 V.DC                 | 6.3 V.DC         | 8 V.DC to 16 V.DC |
|                       |                                                                                                                                                                                           | +70, -20 %                         | +60, -20 %             | +50, -20 %       | +40, -20 %        |
|                       | tan δ                                                                                                                                                                                     | ≤ 200 % of initial specified value |                        |                  |                   |
| DC leakage current    | ≤ Initial specified value                                                                                                                                                                 |                                    |                        |                  |                   |

### ■ Marking



### ■ Dimensions in mm(not to scale)

(Unit : mm)



| Series & Size Code | L±0.2 | W1±0.2 | W2±0.1 | H       | P±0.3 |
|--------------------|-------|--------|--------|---------|-------|
| FD                 | 7.3   | 4.3    | 2.4    | 1.1±0.1 | 1.3   |
| CD                 | 7.3   | 4.3    | 2.4    | 1.8±0.1 | 1.3   |
| UD                 | 7.3   | 4.3    | 2.4    | 2.8±0.2 | 1.3   |
| UE                 | 7.3   | 4.3    | 2.4    | 4.2±0.1 | 1.3   |

\* Externals of figure are the reference.

## ■ Standard Products

Reflow \*3

&lt;260 °C&gt;

| Series & Size Code | Rated Voltage (V.DC) | Capacitance (±20 %) (μF) | Case Size |        |        | Specification            |               | Part number  | Reflow       |        | Min. Packaging Q'ty (pcs) |      |
|--------------------|----------------------|--------------------------|-----------|--------|--------|--------------------------|---------------|--------------|--------------|--------|---------------------------|------|
|                    |                      |                          | L (mm)    | W (mm) | H (mm) | *1                       | *2            |              | 240 °C       | 260 °C |                           |      |
|                    |                      |                          |           |        |        | Ripple current (Ar.m.s.) | ESR (mΩ max.) |              |              |        |                           |      |
| FD                 | 2                    | 68                       | 7.3       | 4.3    | 1.1    | 2.0                      | 28            | EEFFD0D680R  | ○            | —      | 3500                      |      |
|                    | 2.5                  | 56                       | 7.3       | 4.3    | 1.1    | 2.0                      | 28            | EEFFD0E560R  | ○            | —      | 3500                      |      |
|                    | 4                    | 39                       | 7.3       | 4.3    | 1.1    | 2.0                      | 28            | EEFFD0G390R  | ○            | —      | 3500                      |      |
|                    |                      | 47                       | 7.3       | 4.3    | 1.1    | 2.0                      | 28            | EEFFD0G470R  | ○            | —      | 3500                      |      |
|                    | 6.3                  | 33                       | 7.3       | 4.3    | 1.1    | 2.0                      | 28            | EEFFD0J330R  | ○            | —      | 3500                      |      |
|                    | 8                    | 22                       | 7.3       | 4.3    | 1.1    | 2.0                      | 28            | EEFFD0K220R  | ○            | —      | 3500                      |      |
| 12.5               | 15                   | 7.3                      | 4.3       | 1.1    | 1.4    | 40                       | EEFFD1B150R   | ○            | —            | 3500   |                           |      |
| CD                 | 2                    | 100                      | 7.3       | 4.3    | 1.8    | 2.5                      | 18            | EEFCD0D101ER | —            | ○      | 3500                      |      |
|                    |                      |                          | 7.3       | 4.3    | 1.8    | 2.7                      | 15            | EEFCD0D101XE | —            | ○      | 3500                      |      |
|                    |                      | 120                      | 7.3       | 4.3    | 1.8    | 2.5                      | 18            | EEFCD0D121ER | —            | ○      | 3500                      |      |
|                    |                      |                          | 7.3       | 4.3    | 1.8    | 2.7                      | 15            | EEFCD0D121XE | —            | ○      | 3500                      |      |
|                    |                      |                          | 7.3       | 4.3    | 1.8    | 2.5                      | 18            | EEFCD0D151ER | —            | ○      | 3500                      |      |
|                    |                      |                          | 7.3       | 4.3    | 1.8    | 2.5                      | 18            | EEFCD0D181ER | —            | ○      | 3500                      |      |
|                    | 2.5                  | 220                      | 7.3       | 4.3    | 1.8    | 2.5                      | 18            | EEFCD0D221ER | —            | ○      | 3500                      |      |
|                    |                      |                          | 7.3       | 4.3    | 1.8    | 2.5                      | 18            | EEFCD0E820ER | —            | ○      | 3500                      |      |
|                    |                      | 82                       | 7.3       | 4.3    | 1.8    | 2.7                      | 15            | EEFCD0E820XE | —            | ○      | 3500                      |      |
|                    |                      |                          | 7.3       | 4.3    | 1.8    | 2.5                      | 18            | EEFCD0E101ER | —            | ○      | 3500                      |      |
|                    |                      |                          | 7.3       | 4.3    | 1.8    | 2.7                      | 15            | EEFCD0E101XE | —            | ○      | 3500                      |      |
|                    |                      |                          | 7.3       | 4.3    | 1.8    | 2.5                      | 18            | EEFCD0E121ER | —            | ○      | 3500                      |      |
|                    | 4                    | 150                      | 7.3       | 4.3    | 1.8    | 2.5                      | 18            | EEFCD0E151ER | —            | ○      | 3500                      |      |
|                    |                      |                          | 7.3       | 4.3    | 1.8    | 2.5                      | 18            | EEFCD0G560ER | —            | ○      | 3500                      |      |
|                    |                      | 56                       | 7.3       | 4.3    | 1.8    | 2.7                      | 15            | EEFCD0G560XE | —            | ○      | 3500                      |      |
|                    |                      |                          | 7.3       | 4.3    | 1.8    | 2.5                      | 18            | EEFCD0G680ER | —            | ○      | 3500                      |      |
|                    |                      |                          | 7.3       | 4.3    | 1.8    | 2.7                      | 15            | EEFCD0G680XE | —            | ○      | 3500                      |      |
|                    |                      |                          | 7.3       | 4.3    | 1.8    | 2.5                      | 18            | EEFCD0G820ER | —            | ○      | 3500                      |      |
|                    | 6.3                  | 82                       | 7.3       | 4.3    | 1.8    | 2.7                      | 15            | EEFCD0G820XE | —            | ○      | 3500                      |      |
|                    |                      |                          | 7.3       | 4.3    | 1.8    | 2.5                      | 18            | EEFCD0G101ER | —            | ○      | 3500                      |      |
|                    |                      | 100                      | 7.3       | 4.3    | 1.8    | 2.5                      | 18            | EEFCD0J100ER | —            | ○      | 3500                      |      |
|                    |                      |                          | 7.3       | 4.3    | 1.8    | 1.6                      | 40            | EEFCD0J220ER | —            | ○      | 3500                      |      |
|                    |                      |                          | 7.3       | 4.3    | 1.8    | 2.0                      | 28            | EEFCD0J330ER | —            | ○      | 3500                      |      |
|                    |                      |                          | 7.3       | 4.3    | 1.8    | 2.5                      | 18            | EEFCD0J470ER | —            | ○      | 3500                      |      |
|                    | 8                    | 47                       | 7.3       | 4.3    | 1.8    | 2.7                      | 15            | EEFCD0J470XE | —            | ○      | 3500                      |      |
|                    |                      |                          | 7.3       | 4.3    | 1.8    | 2.5                      | 18            | EEFCD0J680ER | —            | ○      | 3500                      |      |
|                    |                      | 68                       | 7.3       | 4.3    | 1.8    | 2.7                      | 15            | EEFCD0J680XE | —            | ○      | 3500                      |      |
|                    |                      |                          | 8.2       | 7.3    | 4.3    | 1.8                      | 1.4           | 55           | EEFCD0K8R2ER | —      | ○                         | 3500 |
|                    |                      |                          | 15        | 7.3    | 4.3    | 1.8                      | 1.6           | 40           | EEFCD0K150ER | —      | ○                         | 3500 |
|                    |                      |                          | 22        | 7.3    | 4.3    | 1.8                      | 2.0           | 28           | EEFCD0K220ER | —      | ○                         | 3500 |
|                    | 10                   | 33                       | 7.3       | 4.3    | 1.8    | 2.5                      | 18            | EEFCD0K330ER | —            | ○      | 3500                      |      |
|                    |                      |                          | 7.3       | 4.3    | 1.8    | 1.8                      | 25            | EEFCD0K470ER | —            | ○      | 3500                      |      |
|                    |                      | 47                       | 7.3       | 4.3    | 1.8    | 1.6                      | 30            | EEFCD1A220ER | —            | ○      | 3500                      |      |
|                    |                      |                          | 7.3       | 4.3    | 1.8    | 1.8                      | 25            | EEFCD1A330ER | —            | ○      | 3500                      |      |
|                    |                      |                          | 39        | 7.3    | 4.3    | 1.8                      | 1.8           | 25           | EEFCD1A390ER | —      | ○                         | 3500 |
|                    |                      |                          | 4.7       | 7.3    | 4.3    | 1.8                      | 1.0           | 80           | EEFCD1B4R7R  | ○      | —                         | 3500 |
|                    | 12.5                 | 10                       | 7.3       | 4.3    | 1.8    | 1.0                      | 60            | EEFCD1B100R  | ○            | —      | 3500                      |      |
|                    |                      |                          | 15        | 7.3    | 4.3    | 1.8                      | 1.3           | 50           | EEFCD1B150R  | ○      | —                         | 3500 |
|                    |                      | 22                       | 7.3       | 4.3    | 1.8    | 1.6                      | 30            | EEFCD1B220R  | ○            | —      | 3500                      |      |
|                    |                      |                          | 2.2       | 7.3    | 4.3    | 1.8                      | 1.0           | 110          | EEFCD1C2R2R  | ○      | —                         | 3500 |
|                    |                      |                          | 4.7       | 7.3    | 4.3    | 1.8                      | 1.0           | 80           | EEFCD1C4R7R  | ○      | —                         | 3500 |
|                    |                      |                          | 6.8       | 7.3    | 4.3    | 1.8                      | 1.0           | 70           | EEFCD1C6R8R  | ○      | —                         | 3500 |
|                    | 16                   | 8.2                      | 7.3       | 4.3    | 1.8    | 1.3                      | 45            | EEFCD1C8R2R  | ○            | —      | 3500                      |      |
|                    |                      |                          | 7.3       | 4.3    | 2.8    | 3.0                      | 15            | EEFUD0D331ER | —            | ○      | 2000                      |      |
|                    |                      | 2                        | 7.3       | 4.3    | 2.8    | 3.3                      | 12            | EEFUD0D331XE | —            | ○      | 2000                      |      |
|                    |                      |                          | 7.3       | 4.3    | 2.8    | 3.4                      | 9             | EEFUD0D331LE | —            | ○      | 2000                      |      |
|                    |                      |                          | 390       | 7.3    | 4.3    | 2.8                      | 3.0           | 15           | EEFUD0D391ER | —      | ○                         | 2000 |
|                    |                      |                          |           | 7.3    | 4.3    | 2.8                      | 3.4           | 9            | EEFUD0D391LE | —      | ○                         | 2000 |
|                    | 2.5                  | 470                      | 7.3       | 4.3    | 2.8    | 3.4                      | 9             | EEFUD0D471LE | —            | ○      | 2000                      |      |
|                    |                      |                          | 7.3       | 4.3    | 2.8    | 3.0                      | 15            | EEFUD0E221ER | —            | ○      | 2000                      |      |
|                    |                      | 220                      | 7.3       | 4.3    | 2.8    | 3.3                      | 12            | EEFUD0E221XE | —            | ○      | 2000                      |      |
|                    |                      |                          | 7.3       | 4.3    | 2.8    | 3.4                      | 9             | EEFUD0E221LE | —            | ○      | 2000                      |      |
|                    |                      |                          | 270       | 7.3    | 4.3    | 2.8                      | 3.0           | 15           | EEFUD0E271ER | —      | ○                         | 2000 |
|                    |                      |                          |           | 7.3    | 4.3    | 2.8                      | 3.4           | 9            | EEFUD0E271LE | —      | ○                         | 2000 |

\*1: Ripple current (100 kHz/ +20 to +105 °C), \*2: ESR (100 kHz/+20 °C)

\*3: Please refer to the page of "Mounting Specifications".

\*4: Please contact Panasonic for details of allowable 240 °C reflow condition.

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.  
Should a safety concern arise regarding this product, please be sure to contact us immediately.

## ■ Standard Products

Reflow \*3

&lt;260 °C&gt;

| Series &<br>Size Code | Rated<br>Voltage<br>(V.DC) | Capaci-<br>tance<br>(±20 %) (μF) | Case Size |           |           | Specification                        |                        | Part number  | Reflow       |        | Min.<br>Packaging<br>Q'ty<br>(pcs) |
|-----------------------|----------------------------|----------------------------------|-----------|-----------|-----------|--------------------------------------|------------------------|--------------|--------------|--------|------------------------------------|
|                       |                            |                                  | L<br>(mm) | W<br>(mm) | H<br>(mm) | *1<br>Ripple<br>current<br>(Ar.m.s.) | *2<br>ESR<br>(mΩ max.) |              | *4<br>240 °C | 260 °C |                                    |
| UD                    | 4                          | 120                              | 7.3       | 4.3       | 2.8       | 3.0                                  | 15                     | EEFUD0G121ER | —            | ○      | 2000                               |
|                       |                            |                                  | 7.3       | 4.3       | 2.8       | 3.4                                  | 12                     | EEFUD0G121XE | —            | ○      | 2000                               |
|                       |                            | 150                              | 7.3       | 4.3       | 2.8       | 3.0                                  | 15                     | EEFUD0G151ER | —            | ○      | 2000                               |
|                       |                            |                                  | 7.3       | 4.3       | 2.8       | 3.3                                  | 12                     | EEFUD0G151XE | —            | ○      | 2000                               |
|                       |                            |                                  | 7.3       | 4.3       | 2.8       | 3.4                                  | 9                      | EEFUD0G151LE | —            | ○      | 2000                               |
|                       |                            |                                  | 7.3       | 4.3       | 2.8       | 2.5                                  | 18                     | EEFUD0G181ER | —            | ○      | 2000                               |
|                       | 6.3                        | 180                              | 7.3       | 4.3       | 2.8       | 3.4                                  | 9                      | EEFUD0G181LE | —            | ○      | 2000                               |
|                       |                            |                                  | 7.3       | 4.3       | 2.8       | 3.0                                  | 15                     | EEFUD0J101ER | —            | ○      | 2000                               |
|                       |                            | 100                              | 7.3       | 4.3       | 2.8       | 3.3                                  | 12                     | EEFUD0J101XE | —            | ○      | 2000                               |
|                       |                            |                                  | 7.3       | 4.3       | 2.8       | 3.0                                  | 15                     | EEFUD0J121ER | —            | ○      | 2000                               |
|                       |                            |                                  | 7.3       | 4.3       | 2.8       | 3.3                                  | 12                     | EEFUD0J121XE | —            | ○      | 2000                               |
|                       |                            |                                  | 7.3       | 4.3       | 2.8       | 3.4                                  | 9                      | EEFUD0J121LR | ○            | —      | 2000                               |
|                       |                            | 150                              | 7.3       | 4.3       | 2.8       | 2.5                                  | 18                     | EEFUD0J151ER | —            | ○      | 2000                               |
|                       |                            |                                  | 7.3       | 4.3       | 2.8       | 3.4                                  | 9                      | EEFUD0J151LR | ○            | —      | 2000                               |
|                       | 8                          | 68                               | 7.3       | 4.3       | 2.8       | 3.0                                  | 15                     | EEFUD0K680ER | —            | ○      | 2000                               |
|                       |                            | 100                              | 7.3       | 4.3       | 2.8       | 2.5                                  | 18                     | EEFUD0K101ER | —            | ○      | 2000                               |
| UE                    | 2                          | 270                              | 7.3       | 4.3       | 4.2       | 3.3                                  | 12                     | EEFUE0D271ER | —            | ○      | 2000                               |
|                       |                            |                                  | 7.3       | 4.3       | 4.2       | 3.5                                  | 10                     | EEFUE0D271XE | —            | ○      | 2000                               |
|                       |                            | 330                              | 7.3       | 4.3       | 4.2       | 3.3                                  | 12                     | EEFUE0D331ER | —            | ○      | 2000                               |
|                       |                            |                                  | 7.3       | 4.3       | 4.2       | 3.5                                  | 10                     | EEFUE0D331XE | —            | ○      | 2000                               |
|                       |                            | 390                              | 7.3       | 4.3       | 4.2       | 3.3                                  | 12                     | EEFUE0D391ER | —            | ○      | 2000                               |
|                       |                            |                                  | 7.3       | 4.3       | 4.2       | 3.5                                  | 10                     | EEFUE0D391XE | —            | ○      | 2000                               |
|                       |                            |                                  | 7.3       | 4.3       | 4.2       | 3.7                                  | 7                      | EEFUE0D391LE | —            | ○      | 2000                               |
|                       |                            |                                  | 7.3       | 4.3       | 4.2       | 3.3                                  | 12                     | EEFUE0D471ER | —            | ○      | 2000                               |
|                       |                            | 470                              | 7.3       | 4.3       | 4.2       | 3.5                                  | 10                     | EEFUE0D471XE | —            | ○      | 2000                               |
|                       |                            |                                  | 7.3       | 4.3       | 4.2       | 3.7                                  | 7                      | EEFUE0D471LE | —            | ○      | 2000                               |
|                       |                            | 560                              | 7.3       | 4.3       | 4.2       | 3.3                                  | 12                     | EEFUE0D561ER | —            | ○      | 2000                               |
|                       |                            |                                  | 7.3       | 4.3       | 4.2       | 3.7                                  | 7                      | EEFUE0D561LE | —            | ○      | 2000                               |
|                       | 2.5                        | 220                              | 7.3       | 4.3       | 4.2       | 3.3                                  | 12                     | EEFUE0E221ER | —            | ○      | 2000                               |
|                       |                            |                                  | 7.3       | 4.3       | 4.2       | 3.5                                  | 10                     | EEFUE0E221XE | —            | ○      | 2000                               |
|                       |                            | 270                              | 7.3       | 4.3       | 4.2       | 3.3                                  | 12                     | EEFUE0E271ER | —            | ○      | 2000                               |
|                       |                            |                                  | 7.3       | 4.3       | 4.2       | 3.5                                  | 10                     | EEFUE0E271XE | —            | ○      | 2000                               |
|                       |                            |                                  | 7.3       | 4.3       | 4.2       | 3.3                                  | 12                     | EEFUE0E331ER | —            | ○      | 2000                               |
|                       |                            |                                  | 7.3       | 4.3       | 4.2       | 3.5                                  | 10                     | EEFUE0E331XE | —            | ○      | 2000                               |
|                       |                            | 390                              | 7.3       | 4.3       | 4.2       | 3.7                                  | 7                      | EEFUE0E331LE | —            | ○      | 2000                               |
|                       |                            |                                  | 7.3       | 4.3       | 4.2       | 3.3                                  | 12                     | EEFUE0E391ER | —            | ○      | 2000                               |
|                       |                            |                                  | 7.3       | 4.3       | 4.2       | 3.7                                  | 7                      | EEFUE0E391LE | —            | ○      | 2000                               |
|                       |                            | 470                              | 7.3       | 4.3       | 4.2       | 3.3                                  | 12                     | EEFUE0E471ER | —            | ○      | 2000                               |
|                       |                            |                                  | 7.3       | 4.3       | 4.2       | 3.7                                  | 7                      | EEFUE0E471LE | —            | ○      | 2000                               |
|                       | 4                          | 180                              | 7.3       | 4.3       | 4.2       | 3.3                                  | 12                     | EEFUE0G181ER | —            | ○      | 2000                               |
|                       |                            |                                  | 7.3       | 4.3       | 4.2       | 3.5                                  | 10                     | EEFUE0G181XE | —            | ○      | 2000                               |
|                       |                            | 220                              | 7.3       | 4.3       | 4.2       | 3.3                                  | 12                     | EEFUE0G221ER | —            | ○      | 2000                               |
|                       |                            |                                  | 7.3       | 4.3       | 4.2       | 3.5                                  | 10                     | EEFUE0G221XE | —            | ○      | 2000                               |
|                       |                            |                                  | 7.3       | 4.3       | 4.2       | 3.7                                  | 7                      | EEFUE0G221LE | —            | ○      | 2000                               |
|                       |                            | 270                              | 7.3       | 4.3       | 4.2       | 3.3                                  | 12                     | EEFUE0G271ER | —            | ○      | 2000                               |
|                       |                            |                                  | 7.3       | 4.3       | 4.2       | 3.7                                  | 7                      | EEFUE0G271LE | —            | ○      | 2000                               |
|                       |                            | 330                              | 7.3       | 4.3       | 4.2       | 3.3                                  | 12                     | EEFUE0G331ER | —            | ○      | 2000                               |
|                       |                            |                                  | 7.3       | 4.3       | 4.2       | 3.3                                  | 12                     | EEFUE0J151ER | —            | ○      | 2000                               |
|                       | 6.3                        | 150                              | 7.3       | 4.3       | 4.2       | 3.5                                  | 10                     | EEFUE0J151XE | —            | ○      | 2000                               |
|                       |                            |                                  | 7.3       | 4.3       | 4.2       | 3.3                                  | 12                     | EEFUE0J181ER | —            | ○      | 2000                               |
|                       |                            | 180                              | 7.3       | 4.3       | 4.2       | 3.3                                  | 12                     | EEFUE0J181XE | —            | ○      | 2000                               |
|                       |                            |                                  | 7.3       | 4.3       | 4.2       | 3.5                                  | 10                     | EEFUE0J181LE | ○            | —      | 2000                               |
|                       |                            |                                  | 7.3       | 4.3       | 4.2       | 3.0                                  | 15                     | EEFUE0J221ER | —            | ○      | 2000                               |
|                       |                            |                                  | 7.3       | 4.3       | 4.2       | 3.7                                  | 7                      | EEFUE0J221LR | ○            | —      | 2000                               |
|                       | 8                          | 100                              | 7.3       | 4.3       | 4.2       | 3.3                                  | 12                     | EEFUE0K101ER | —            | ○      | 2000                               |
|                       |                            |                                  | 7.3       | 4.3       | 4.2       | 3.0                                  | 15                     | EEFUE0K151ER | —            | ○      | 2000                               |

\*1: Ripple current (100 kHz/ +20 to +105 °C), \*2: ESR (100 kHz/+20 °C)

\*3: Please refer to the page of "Mounting Specifications".

\*4: Please contact Panasonic for details of allowable 240 °C reflow condition.