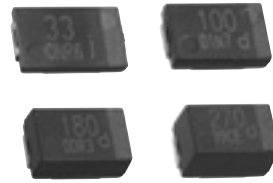


## Surface Mount Type **SP-Cap**

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



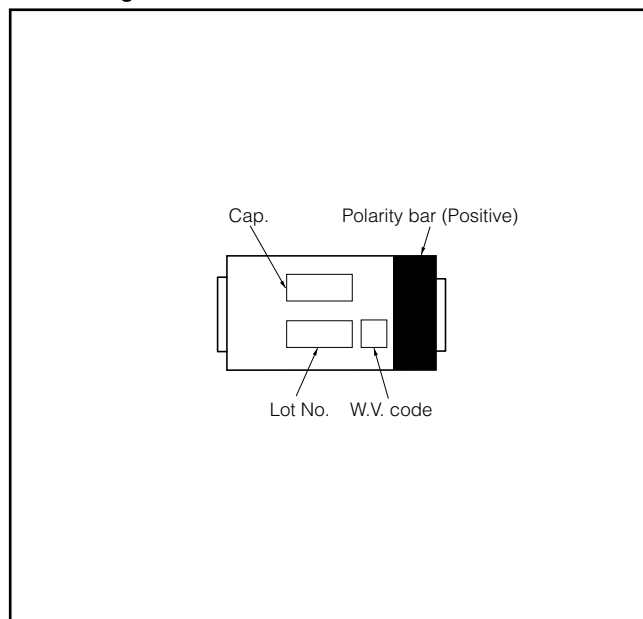
### ■ Features

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

### ■ Specifications

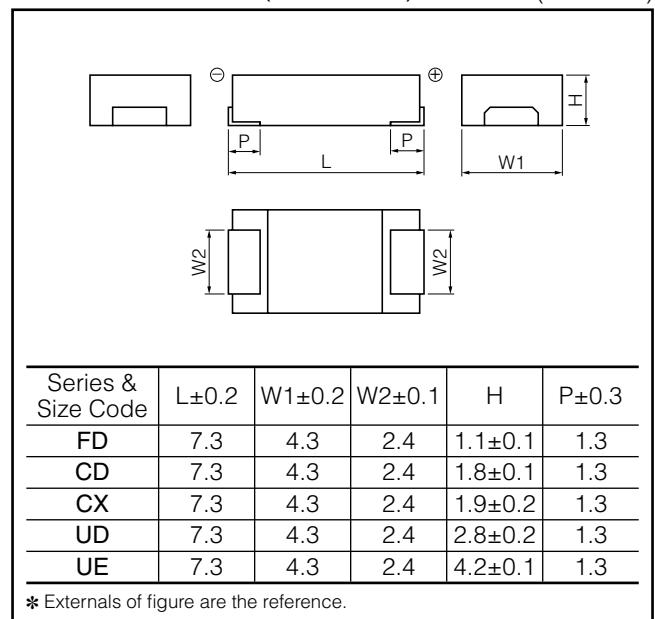
| Series & Size Code    | FD  | CD                                      | CX                 | UD                          | UE                |
|-----------------------|---|---|--------------------|-----------------------------|-------------------|
| Category Temp. Range  | -40 °C to +105 °C   |   |                    |                             |                   |
| Rated W.V.Range       | 2 V.DC to 12.5 V.DC   | 2 V.DC to 16 V.DC                       | 2 V.DC to 6.3 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                        | 100 μF to 560 μF   | 68 μF to 470 μF             | 100 μF to 560 μF  |
| Capacitance Tolerance | ±20 %   |   |                    |                             |                   |
| DC Leakage Current    | Reflow 240 °C : $I \leq 0.06 CV (\mu A)$ 2minutes (2 V.DC to 4 V.DC)<br>$I \leq 0.04 CV$ or $3 (\mu A)$ 2 minutes (6.3 V.DC to 16 V.DC) (Whichever is greater)<br><br>Reflow 260 °C : $I \leq 0.1 CV (\mu A)$ 2 minutes |   |                    |                             |                   |
| tan δ                 | $\leq 0.06$ (120 Hz/+20 °C)   |   |                    | $\leq 0.10$ (120 Hz/+20 °C) |                   |
| Surge Voltage         | Rated Working Voltage × 1.25 (15 °C to 35 °C)   |   |                    |                             |                   |
| Endurance             | After applying rated working 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   | $\leq$ Initial specified value          |                    |                             |                   |
|                       | DC leakage current  | $\leq$ Initial specified value          |                    |                             |                   |
| Moisture resistance   | After storing for 500 hours at 60 °C, 90 %  |   |                    |                             |                   |
|                       | Capacitance change of initial measured 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   | $\leq 200$ % of initial specified value |                    |                             |                   |
|                       | DC leakage current  | $\leq$ Initial specified value          |                    |                             |                   |

### ■ Marking



### ■ Dimensions in mm(not to scale)

(Unit : mm)



### Standard Products

○ : available, — : not available

| Series & Size Code | Rated W.V. (V.DC) | Capacitance (±20%) (μF) | Case Size |        |        | Specification                  |                     | Part number    | Reflow condition |              | Min. Packaging Qty (pcs) |      |      |
|--------------------|-------------------|-------------------------|-----------|--------|--------|--------------------------------|---------------------|----------------|------------------|--------------|--------------------------|------|------|
|                    |                   |                         | L (mm)    | W (mm) | H (mm) | *1<br>Ripple current (Ar.m.s.) | *2<br>ESR (mΩ max.) |                | 240 °C *3        | 260 °C *3    |                          |      |      |
| FD                 | 2                 | 68                      | 7.3       | 4.3    | 1.1    | 2.0                            | 28                  | EEFFD0D680R *5 | ○                | —            | 3500                     |      |      |
|                    | 2.5               | 56                      | 7.3       | 4.3    | 1.1    | 2.0                            | 28                  | EEFFD0E560R *5 | ○                | —            | 3500                     |      |      |
|                    | 4                 | 39                      | 7.3       | 4.3    | 1.1    | 2.0                            | 28                  | EEFFD0G390R *5 | ○                | —            | 3500                     |      |      |
|                    |                   | 47                      | 7.3       | 4.3    | 1.1    | 2.0                            | 28                  | EEFFD0G470R *5 | ○                | —            | 3500                     |      |      |
|                    | 6.3               | 33                      | 7.3       | 4.3    | 1.1    | 2.0                            | 28                  | EEFFD0J330R *5 | ○                | —            | 3500                     |      |      |
|                    | 8                 | 22                      | 7.3       | 4.3    | 1.1    | 2.0                            | 28                  | EEFFD0K220R *5 | ○                | —            | 3500                     |      |      |
| CD                 | 2                 | 100                     | 7.3       | 4.3    | 1.8    | 2.5                            | 18                  | EEFCD0D101ER   | *4               | ○            | 3500                     |      |      |
|                    |                   |                         | 7.3       | 4.3    | 1.8    | 2.7                            | 15                  | EEFCD0D101XE   | *4               | ○            | 3500                     |      |      |
|                    |                   | 120                     | 7.3       | 4.3    | 1.8    | 2.5                            | 18                  | EEFCD0D121ER   | *4               | ○            | 3500                     |      |      |
|                    |                   |                         | 7.3       | 4.3    | 1.8    | 2.7                            | 15                  | EEFCD0D121XE   | *4               | ○            | 3500                     |      |      |
|                    |                   |                         | 150       | 7.3    | 4.3    | 1.8                            | 2.5                 | 18             | EEFCD0D151ER     | *4           | ○                        | 3500 |      |
|                    |                   |                         | 180       | 7.3    | 4.3    | 1.8                            | 2.5                 | 18             | EEFCD0D181ER     | *4           | ○                        | 3500 |      |
|                    | 2.5               | 82                      | 7.3       | 4.3    | 1.8    | 2.5                            | 18                  | EEFCD0E820ER   | *4               | ○            | 3500                     |      |      |
|                    |                   |                         | 7.3       | 4.3    | 1.8    | 2.7                            | 15                  | EEFCD0E820XE   | *4               | ○            | 3500                     |      |      |
|                    |                   | 100                     | 7.3       | 4.3    | 1.8    | 2.5                            | 18                  | EEFCD0E101ER   | *4               | ○            | 3500                     |      |      |
|                    |                   |                         | 7.3       | 4.3    | 1.8    | 2.7                            | 15                  | EEFCD0E101XE   | *4               | ○            | 3500                     |      |      |
|                    |                   |                         | 120       | 7.3    | 4.3    | 1.8                            | 2.5                 | 18             | EEFCD0E121ER     | *4           | ○                        | 3500 |      |
|                    |                   |                         | 150       | 7.3    | 4.3    | 1.8                            | 2.5                 | 18             | EEFCD0E151ER     | *4           | ○                        | 3500 |      |
|                    | 4                 | 56                      | 7.3       | 4.3    | 1.8    | 2.5                            | 18                  | EEFCD0G560ER   | *4               | ○            | 3500                     |      |      |
|                    |                   |                         | 7.3       | 4.3    | 1.8    | 2.7                            | 15                  | EEFCD0G560XE   | *4               | ○            | 3500                     |      |      |
|                    |                   | 68                      | 7.3       | 4.3    | 1.8    | 2.5                            | 18                  | EEFCD0G680ER   | *4               | ○            | 3500                     |      |      |
|                    |                   |                         | 7.3       | 4.3    | 1.8    | 2.7                            | 15                  | EEFCD0G680XE   | *4               | ○            | 3500                     |      |      |
|                    |                   |                         | 82        | 7.3    | 4.3    | 1.8                            | 2.5                 | 18             | EEFCD0G820ER     | *4           | ○                        | 3500 |      |
|                    |                   |                         | 7.3       | 4.3    | 1.8    | 2.7                            | 15                  | EEFCD0G820XE   | *4               | ○            | 3500                     |      |      |
|                    | 6.3               | 10                      | 7.3       | 4.3    | 1.8    | 1.4                            | 55                  | EEFCD0J100ER   | *4               | ○            | 3500                     |      |      |
|                    |                   |                         | 7.3       | 4.3    | 1.8    | 1.6                            | 40                  | EEFCD0J220ER   | *4               | ○            | 3500                     |      |      |
|                    |                   | 33                      | 7.3       | 4.3    | 1.8    | 2.0                            | 28                  | EEFCD0J330ER   | *4               | ○            | 3500                     |      |      |
|                    |                   |                         | 7.3       | 4.3    | 1.8    | 2.5                            | 18                  | EEFCD0J470ER   | *4               | ○            | 3500                     |      |      |
|                    |                   |                         | 7.3       | 4.3    | 1.8    | 2.7                            | 15                  | EEFCD0J470XE   | *4               | ○            | 3500                     |      |      |
|                    |                   |                         | 7.3       | 4.3    | 1.8    | 2.5                            | 18                  | EEFCD0J680ER   | *4               | ○            | 3500                     |      |      |
|                    | 8                 | 8.2                     | 7.3       | 4.3    | 1.8    | 1.4                            | 55                  | EEFCD0K8R2ER   | *4               | ○            | 3500                     |      |      |
|                    |                   |                         | 7.3       | 4.3    | 1.8    | 1.6                            | 40                  | EEFCD0K150ER   | *4               | ○            | 3500                     |      |      |
|                    |                   | 22                      | 7.3       | 4.3    | 1.8    | 2.0                            | 28                  | EEFCD0K220ER   | *4               | ○            | 3500                     |      |      |
|                    |                   |                         | 7.3       | 4.3    | 1.8    | 2.5                            | 18                  | EEFCD0K330ER   | *4               | ○            | 3500                     |      |      |
|                    |                   |                         | 7.3       | 4.3    | 1.8    | 1.8                            | 25                  | EEFCD0K470ER   | *4               | ○            | 3500                     |      |      |
|                    |                   |                         | 7.3       | 4.3    | 1.8    | 1.6                            | 30                  | EEFCD1A220ER   | —                | ○            | 3500                     |      |      |
|                    | 10                | 33                      | 7.3       | 4.3    | 1.8    | 1.8                            | 25                  | EEFCD1A330ER   | —                | ○            | 3500                     |      |      |
|                    |                   |                         | 7.3       | 4.3    | 1.8    | 1.8                            | 25                  | EEFCD1A390ER   | —                | ○            | 3500                     |      |      |
|                    |                   | 4.7                     | 7.3       | 4.3    | 1.8    | 1.0                            | 80                  | EEFCD1B4R7R *5 | ○                | —            | 3500                     |      |      |
|                    |                   |                         | 7.3       | 4.3    | 1.8    | 1.0                            | 60                  | EEFCD1B100R *5 | ○                | —            | 3500                     |      |      |
|                    |                   |                         | 7.3       | 4.3    | 1.8    | 1.3                            | 50                  | EEFCD1B150R *5 | ○                | —            | 3500                     |      |      |
|                    |                   |                         | 7.3       | 4.3    | 1.8    | 1.6                            | 30                  | EEFCD1B220R *5 | ○                | —            | 3500                     |      |      |
|                    | 12.5              | 2.2                     | 7.3       | 4.3    | 1.8    | 1.0                            | 110                 | EEFCD1C2R2R *5 | ○                | —            | 3500                     |      |      |
|                    |                   |                         | 7.3       | 4.3    | 1.8    | 1.0                            | 80                  | EEFCD1C4R7R *5 | ○                | —            | 3500                     |      |      |
|                    |                   | 6.8                     | 7.3       | 4.3    | 1.8    | 1.0                            | 70                  | EEFCD1C6R8R *5 | ○                | —            | 3500                     |      |      |
|                    |                   |                         | 7.3       | 4.3    | 1.8    | 1.3                            | 45                  | EEFCD1C8R2R *5 | ○                | —            | 3500                     |      |      |
|                    |                   |                         | CX        | 2      | 7.3    | 4.3                            | 1.9                 | 2.7            | 15               | EEFCX0D221R  | —                        | ○    | 3500 |
|                    |                   |                         |           |        | 7.3    | 4.3                            | 1.9                 | 3.0            | 12               | EEFCX0D271XR | —                        | ○    | 3500 |
|                    | 330               | 7.3                     |           | 4.3    | 1.9    | 2.7                            | 15                  | EEFCX0D331R    | —                | ○            | 3500                     |      |      |
|                    |                   | 7.3                     |           | 4.3    | 1.9    | 3.0                            | 12                  | EEFCX0D331XR   | —                | ○            | 3500                     |      |      |
|                    |                   | 7.3                     |           | 4.3    | 1.9    | 2.7                            | 15                  | EEFCX0D391R    | —                | ○            | 3500                     |      |      |
|                    |                   | 7.3                     |           | 4.3    | 1.9    | 2.7                            | 15                  | EEFCX0D471R    | —                | ○            | 3500                     |      |      |
|                    |                   | 7.3                     | 4.3       | 1.9    | 2.7    | 15                             | EEFCX0D561R         | —              | ○                | 3500         |                          |      |      |
|                    | 2.5               | 220                     | 7.3       | 4.3    | 1.9    | 2.7                            | 15                  | EEFCX0E221R    | —                | ○            | 3500                     |      |      |
| 7.3                |                   |                         | 4.3       | 1.9    | 2.7    | 15                             | EEFCX0E331R         | —              | ○                | 3500         |                          |      |      |
| 390                |                   | 7.3                     | 4.3       | 1.9    | 2.7    | 15                             | EEFCX0E391R         | —              | ○                | 3500         |                          |      |      |
|                    |                   | 7.3                     | 4.3       | 1.9    | 2.7    | 15                             | EEFCX0E471R         | —              | ○                | 3500         |                          |      |      |
|                    |                   | 7.3                     | 4.3       | 1.9    | 2.7    | 15                             | EEFCX0G151R         | —              | ○                | 3500         |                          |      |      |
|                    |                   | 7.3                     | 4.3       | 1.9    | 2.7    | 15                             | EEFCX0G181R         | —              | ○                | 3500         |                          |      |      |
| 4                  | 180               | 7.3                     | 4.3       | 1.9    | 3.0    | 12                             | EEFCX0G181XR        | —              | ○                | 3500         |                          |      |      |
|                    |                   | 7.3                     | 4.3       | 1.9    | 2.7    | 15                             | EEFCX0G221R         | —              | ○                | 3500         |                          |      |      |
|                    | 220               | 7.3                     | 4.3       | 1.9    | 3.0    | 12                             | EEFCX0G221XR        | —              | ○                | 3500         |                          |      |      |
|                    |                   | 7.3                     | 4.3       | 1.9    | 2.7    | 15                             | EEFCX0G271R         | —              | ○                | 3500         |                          |      |      |
|                    |                   | 7.3                     | 4.3       | 1.9    | 2.7    | 15                             | EEFCX0J101R         | —              | ○                | 3500         |                          |      |      |
|                    |                   | 7.3                     | 4.3       | 1.9    | 2.7    | 15                             | EEFCX0J121R         | —              | ○                | 3500         |                          |      |      |
| 6.3                | 150               | 7.3                     | 4.3       | 1.9    | 2.7    | 15                             | EEFCX0J151R         | —              | ○                | 3500         |                          |      |      |
|                    |                   | 7.3                     | 4.3       | 1.9    | 3.0    | 12                             | EEFCX0J151XR        | —              | ○                | 3500         |                          |      |      |
|                    | 180               | 7.3                     | 4.3       | 1.9    | 2.7    | 15                             | EEFCX0J181R         | —              | ○                | 3500         |                          |      |      |

\*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 use high temperature Lead-Free reflow (260 °C) for new design.

\*5: In the case of new design please contact us.

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

○ : available, — : not available

| Series & Size Code | Rated W.V. (V.DC) | Capacitance (±20 %) (μF) | Case Size |        |        | Specification                  |                     | Part number     | Reflow condition |           | Min. Packaging Qty (pcs) |      |
|--------------------|-------------------|--------------------------|-----------|--------|--------|--------------------------------|---------------------|-----------------|------------------|-----------|--------------------------|------|
|                    |                   |                          | L (mm)    | W (mm) | H (mm) | *1<br>Ripple current (Ar.m.s.) | *2<br>ESR (mΩ max.) |                 | 240 °C *3        | 260 °C *3 |                          |      |
| UD                 | 2                 | 330                      | 7.3       | 4.3    | 2.8    | 3.0                            | 15                  | EEFUD0D331ER *5 | *4               | ○         | 2000                     |      |
|                    |                   |                          | 7.3       | 4.3    | 2.8    | 3.3                            | 12                  | EEFUD0D331XE *5 | *4               | ○         | 2000                     |      |
|                    |                   |                          | 7.3       | 4.3    | 2.8    | 3.4                            | 9                   | EEFUD0D331LE *5 | *4               | ○         | 2000                     |      |
|                    |                   | 390                      | 7.3       | 4.3    | 2.8    | 3.0                            | 15                  | EEFUD0D391ER *5 | *4               | ○         | 2000                     |      |
|                    |                   |                          | 7.3       | 4.3    | 2.8    | 3.4                            | 9                   | EEFUD0D391LE *5 | *4               | ○         | 2000                     |      |
|                    | 2.5               | 220                      | 7.3       | 4.3    | 2.8    | 3.0                            | 15                  | EEFUD0E221ER *5 | *4               | ○         | 2000                     |      |
|                    |                   |                          | 7.3       | 4.3    | 2.8    | 3.3                            | 12                  | EEFUD0E221XE *5 | *4               | ○         | 2000                     |      |
|                    |                   | 270                      | 7.3       | 4.3    | 2.8    | 3.4                            | 9                   | EEFUD0E221LE *5 | *4               | ○         | 2000                     |      |
|                    |                   |                          | 7.3       | 4.3    | 2.8    | 3.0                            | 15                  | EEFUD0E271ER *5 | *4               | ○         | 2000                     |      |
|                    |                   | 4                        | 120       | 7.3    | 4.3    | 2.8                            | 3.4                 | 9               | EEFUD0E271LE *5  | *4        | ○                        | 2000 |
|                    |                   |                          |           | 7.3    | 4.3    | 2.8                            | 3.0                 | 15              | EEFUD0G121ER *5  | *4        | ○                        | 2000 |
|                    |                   |                          | 150       | 7.3    | 4.3    | 2.8                            | 3.4                 | 12              | EEFUD0G121XE *5  | *4        | ○                        | 2000 |
|                    |                   |                          |           | 7.3    | 4.3    | 2.8                            | 3.3                 | 12              | EEFUD0G151ER *5  | *4        | ○                        | 2000 |
|                    |                   |                          | 180       | 7.3    | 4.3    | 2.8                            | 3.4                 | 9               | EEFUD0G151XE *5  | *4        | ○                        | 2000 |
|                    |                   |                          |           | 7.3    | 4.3    | 2.8                            | 2.5                 | 18              | EEFUD0G181ER *5  | *4        | ○                        | 2000 |
|                    | 6.3               | 100                      | 7.3       | 4.3    | 2.8    | 3.4                            | 9                   | EEFUD0G181LE *5 | *4               | ○         | 2000                     |      |
|                    |                   |                          | 7.3       | 4.3    | 2.8    | 3.0                            | 15                  | EEFUD0J101ER *5 | *4               | ○         | 2000                     |      |
|                    |                   | 120                      | 7.3       | 4.3    | 2.8    | 3.3                            | 12                  | EEFUD0J101XE *5 | *4               | ○         | 2000                     |      |
|                    |                   |                          | 7.3       | 4.3    | 2.8    | 3.0                            | 15                  | EEFUD0J121ER *5 | *4               | ○         | 2000                     |      |
|                    |                   | 150                      | 7.3       | 4.3    | 2.8    | 3.3                            | 12                  | EEFUD0J121XE *5 | *4               | ○         | 2000                     |      |
|                    |                   |                          | 7.3       | 4.3    | 2.8    | 3.4                            | 9                   | EEFUD0J121LR *5 | ○                | —         | 2000                     |      |
|                    |                   |                          | 7.3       | 4.3    | 2.8    | 2.5                            | 18                  | EEFUD0J151ER *5 | *4               | ○         | 2000                     |      |
|                    |                   |                          | 7.3       | 4.3    | 2.8    | 3.4                            | 9                   | EEFUD0J151LR *5 | ○                | —         | 2000                     |      |
|                    |                   | 8                        | 68        | 7.3    | 4.3    | 2.8                            | 3.0                 | 15              | EEFUD0K680ER     | *4        | ○                        | 2000 |
|                    |                   |                          | 100       | 7.3    | 4.3    | 2.8                            | 2.5                 | 18              | EEFUD0K101ER     | *4        | ○                        | 2000 |
|                    | UE                | 2                        | 270       | 7.3    | 4.3    | 4.2                            | 3.3                 | 12              | EEFUE0D271ER *5  | *4        | ○                        | 2000 |
|                    |                   |                          |           | 7.3    | 4.3    | 4.2                            | 3.5                 | 10              | EEFUE0D271XE *5  | *4        | ○                        | 2000 |
|                    |                   |                          | 330       | 7.3    | 4.3    | 4.2                            | 3.3                 | 12              | EEFUE0D331ER *5  | *4        | ○                        | 2000 |
|                    |                   |                          |           | 7.3    | 4.3    | 4.2                            | 3.5                 | 10              | EEFUE0D331XE *5  | *4        | ○                        | 2000 |
|                    |                   |                          | 390       | 7.3    | 4.3    | 4.2                            | 3.3                 | 12              | EEFUE0D391ER *5  | *4        | ○                        | 2000 |
| 7.3                |                   |                          |           | 4.3    | 4.2    | 3.5                            | 10                  | EEFUE0D391XE *5 | *4               | ○         | 2000                     |      |
| 7.3                |                   |                          |           | 4.3    | 4.2    | 3.7                            | 7                   | EEFUE0D391LE *5 | *4               | ○         | 2000                     |      |
| 470                |                   |                          | 7.3       | 4.3    | 4.2    | 3.3                            | 12                  | EEFUE0D471ER *5 | *4               | ○         | 2000                     |      |
|                    |                   |                          | 7.3       | 4.3    | 4.2    | 3.5                            | 10                  | EEFUE0D471XE *5 | *4               | ○         | 2000                     |      |
|                    |                   |                          | 7.3       | 4.3    | 4.2    | 3.7                            | 7                   | EEFUE0D471LE *5 | *4               | ○         | 2000                     |      |
|                    |                   |                          | 7.3       | 4.3    | 4.2    | 3.3                            | 12                  | EEFUE0D561ER *5 | *4               | ○         | 2000                     |      |
| 2.5                |                   |                          | 220       | 7.3    | 4.3    | 4.2                            | 3.7                 | 7               | EEFUE0D561LE *5  | *4        | ○                        | 2000 |
|                    |                   |                          |           | 7.3    | 4.3    | 4.2                            | 3.3                 | 12              | EEFUE0E221ER *5  | *4        | ○                        | 2000 |
|                    |                   |                          | 270       | 7.3    | 4.3    | 4.2                            | 3.5                 | 10              | EEFUE0E221XE *5  | *4        | ○                        | 2000 |
|                    |                   |                          |           | 7.3    | 4.3    | 4.2                            | 3.3                 | 12              | EEFUE0E271ER *5  | *4        | ○                        | 2000 |
|                    |                   | 330                      | 7.3       | 4.3    | 4.2    | 3.5                            | 10                  | EEFUE0E271XE *5 | *4               | ○         | 2000                     |      |
|                    |                   |                          | 7.3       | 4.3    | 4.2    | 3.3                            | 12                  | EEFUE0E331ER *5 | *4               | ○         | 2000                     |      |
|                    |                   |                          | 7.3       | 4.3    | 4.2    | 3.5                            | 10                  | EEFUE0E331XE *5 | *4               | ○         | 2000                     |      |
|                    |                   | 390                      | 7.3       | 4.3    | 4.2    | 3.7                            | 7                   | EEFUE0E331LE *5 | *4               | ○         | 2000                     |      |
|                    |                   |                          | 7.3       | 4.3    | 4.2    | 3.3                            | 12                  | EEFUE0E391ER *5 | *4               | ○         | 2000                     |      |
|                    |                   |                          | 7.3       | 4.3    | 4.2    | 3.7                            | 7                   | EEFUE0E391LE *5 | *4               | ○         | 2000                     |      |
|                    |                   |                          | 7.3       | 4.3    | 4.2    | 3.3                            | 12                  | EEFUE0E471ER *5 | *4               | ○         | 2000                     |      |
|                    |                   | 4                        | 180       | 7.3    | 4.3    | 4.2                            | 3.7                 | 7               | EEFUE0E471LE *5  | *4        | ○                        | 2000 |
|                    |                   |                          |           | 7.3    | 4.3    | 4.2                            | 3.3                 | 12              | EEFUE0G181ER *5  | *4        | ○                        | 2000 |
|                    |                   |                          | 220       | 7.3    | 4.3    | 4.2                            | 3.5                 | 10              | EEFUE0G181XE *5  | *4        | ○                        | 2000 |
|                    |                   |                          |           | 7.3    | 4.3    | 4.2                            | 3.3                 | 12              | EEFUE0G221ER *5  | *4        | ○                        | 2000 |
| 270                |                   |                          | 7.3       | 4.3    | 4.2    | 3.5                            | 10                  | EEFUE0G221XE *5 | *4               | ○         | 2000                     |      |
|                    |                   |                          | 7.3       | 4.3    | 4.2    | 3.7                            | 7                   | EEFUE0G221LE *5 | *4               | ○         | 2000                     |      |
| 330                |                   |                          | 7.3       | 4.3    | 4.2    | 3.3                            | 12                  | EEFUE0G271ER *5 | *4               | ○         | 2000                     |      |
|                    |                   |                          | 7.3       | 4.3    | 4.2    | 3.7                            | 7                   | EEFUE0G271LE *5 | *4               | ○         | 2000                     |      |
|                    |                   |                          | 7.3       | 4.3    | 4.2    | 3.3                            | 12                  | EEFUE0G331ER    | *4               | ○         | 2000                     |      |
|                    |                   |                          | 7.3       | 4.3    | 4.2    | 3.3                            | 12                  | EEFUE0J151ER *5 | *4               | ○         | 2000                     |      |
| 6.3                |                   | 150                      | 7.3       | 4.3    | 4.2    | 3.5                            | 10                  | EEFUE0J151XE *5 | *4               | ○         | 2000                     |      |
|                    |                   |                          | 7.3       | 4.3    | 4.2    | 3.3                            | 12                  | EEFUE0J181ER *5 | *4               | ○         | 2000                     |      |
|                    |                   | 180                      | 7.3       | 4.3    | 4.2    | 3.5                            | 10                  | EEFUE0J181XE *5 | *4               | ○         | 2000                     |      |
|                    |                   |                          | 7.3       | 4.3    | 4.2    | 3.7                            | 7                   | EEFUE0J181LR *5 | ○                | —         | 2000                     |      |
|                    |                   | 220                      | 7.3       | 4.3    | 4.2    | 3.0                            | 15                  | EEFUE0J221ER    | *4               | ○         | 2000                     |      |
|                    |                   |                          | 7.3       | 4.3    | 4.2    | 3.7                            | 7                   | EEFUE0J221LR *5 | ○                | —         | 2000                     |      |
| 8                  |                   | 100                      | 7.3       | 4.3    | 4.2    | 3.3                            | 12                  | EEFUE0K101ER *5 | *4               | ○         | 2000                     |      |
|                    |                   | 150                      | 7.3       | 4.3    | 4.2    | 3.0                            | 15                  | EEFUE0K151ER    | *4               | ○         | 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 use high temperature Lead-Free reflow (260 °C) for new design.

\*5: In the case of new design please contact us.

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.