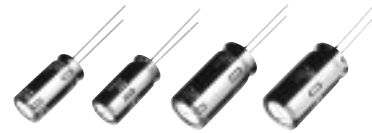


### Radial Lead Type

Series: **FC** Type: **A**



#### ■ Features

- Endurance : 105 °C 1000 h to 5000 h
- Low impedance
- RoHS directive compliant

#### ■ Specifications

|                       |                                                                                                                                                                                                                                                                                                                                                                               |                                    |      |      |      |      |      |      |      |                 |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|------|------|------|------|------|------|------|-----------------|
| Category Temp. Range  | -55 °C to +105 °C                                                                                                                                                                                                                                                                                                                                                             |                                    |      |      |      |      |      |      |      |                 |
| Rated W.V. Range      | 6.3 V.DC to 100 V.DC                                                                                                                                                                                                                                                                                                                                                          |                                    |      |      |      |      |      |      |      |                 |
| Nominal Cap. Range    | 1.0 µF to 15000 µF                                                                                                                                                                                                                                                                                                                                                            |                                    |      |      |      |      |      |      |      |                 |
| Capacitance Tolerance | ±20 % (120 Hz/+20 °C)                                                                                                                                                                                                                                                                                                                                                         |                                    |      |      |      |      |      |      |      |                 |
| DC Leakage Current    | I ≤ 0.01 CV or 3 (µA) After 2 minutes (Whichever is greater)                                                                                                                                                                                                                                                                                                                  |                                    |      |      |      |      |      |      |      |                 |
| tan δ                 | W.V. (V)                                                                                                                                                                                                                                                                                                                                                                      | 6.3                                | 10   | 16   | 25   | 35   | 50   | 63   | 100  | (120 Hz/+20 °C) |
|                       | tan δ                                                                                                                                                                                                                                                                                                                                                                         | 0.22                               | 0.19 | 0.16 | 0.14 | 0.12 | 0.10 | 0.08 | 0.07 |                 |
|                       | For capacitance value ≥ 1000 µF, add 0.02 per every 1000 µF.                                                                                                                                                                                                                                                                                                                  |                                    |      |      |      |      |      |      |      |                 |
| Endurance             | After following life test with DC voltage and +105 °C±2 °C ripple current value applied (The sum of DC and ripple peak voltage shall not exceed the rated working voltage) when the capacitors are restored to 20 °C, the capacitors shall meet the limits specified below.<br>Duration : ϕ4 to ϕ6.3: 1000 hours, ϕ8: 2000 hours , ϕ10: 3000 hours , ϕ12.5 to ϕ18: 5000 hours |                                    |      |      |      |      |      |      |      |                 |
|                       | Capacitance change                                                                                                                                                                                                                                                                                                                                                            | ±20 % of initial measured value    |      |      |      |      |      |      |      |                 |
|                       | tan δ                                                                                                                                                                                                                                                                                                                                                                         | ≤ 200 % of initial specified value |      |      |      |      |      |      |      |                 |
|                       | DC leakage current                                                                                                                                                                                                                                                                                                                                                            | ≤ initial specified value          |      |      |      |      |      |      |      |                 |
| Shelf Life            | After storage for 1000 hours at +105 °C±2 °C with no voltage applied and then being stabilized at +20 °C, capacitors shall meet the limits specified in Endurance. (With voltage treatment)                                                                                                                                                                                   |                                    |      |      |      |      |      |      |      |                 |

#### ■ Frequency correction factor for ripple current

| W.V.(V.DC) | Cap (μF)      | Frequency (Hz) |      |      |      |       |
|------------|---------------|----------------|------|------|------|-------|
|            |               | 60             | 120  | 1 k  | 10 k | 100 k |
| 6.3 to 100 | 1.0 to 330    | 0.55           | 0.65 | 0.85 | 0.90 | 1.00  |
|            | 390 to 1000   | 0.70           | 0.75 | 0.90 | 0.95 | 1.00  |
|            | 1200 to 2200  | 0.75           | 0.80 | 0.90 | 0.95 | 1.00  |
|            | 2700 to 15000 | 0.80           | 0.85 | 0.95 | 1.00 | 1.00  |

#### ■ Dimensions in mm (not to scale)



(mm)

|               | L≥11 |     |     |     |     |          |          |     | L=7  |      |      |
|---------------|------|-----|-----|-----|-----|----------|----------|-----|------|------|------|
| Body Dia. φD  | 4    | 5   | 6.3 | 8   | 10  | 12.5     | 16       | 18  | 4    | 5    | 6.3  |
| Body Length L |      |     |     |     |     | 15 to 25 | 30 to 40 |     |      |      |      |
| Lead Dia. φd  | 0.45 | 0.5 | 0.5 | 0.6 | 0.6 | 0.6      | 0.8      | 0.8 | 0.45 | 0.45 | 0.45 |
| Lead space F  | 1.5  | 2.0 | 2.5 | 3.5 | 5.0 | 5.0      | 5.0      | 7.5 | 7.5  | 1.5  | 2.0  |

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.

00 Sep. 2010

## ■ Case size/ Impedance/ Ripple Current

| W.V(V.DC)<br>Case size<br>( $\phi$ D×L) | 6.3 V to 35 V                       |        |                                               | 50 V                                |         |                                               | 63 V                                |        |                                               | 100 V                               |        |                                               |
|-----------------------------------------|-------------------------------------|--------|-----------------------------------------------|-------------------------------------|---------|-----------------------------------------------|-------------------------------------|--------|-----------------------------------------------|-------------------------------------|--------|-----------------------------------------------|
|                                         | Impedance<br>( $\Omega$ )/(100 kHz) |        | Ripple<br>Current<br>(mA r.m.s)<br>/(100 kHz) | Impedance<br>( $\Omega$ )/(100 kHz) |         | Ripple<br>Current<br>(mA r.m.s)<br>/(100 kHz) | Impedance<br>( $\Omega$ )/(100 kHz) |        | Ripple<br>Current<br>(mA r.m.s)<br>/(100 kHz) | Impedance<br>( $\Omega$ )/(100 kHz) |        | Ripple<br>Current<br>(mA r.m.s)<br>/(100 kHz) |
|                                         | 20 °C                               | -10 °C |                                               | 20 °C                               | -10 °C  |                                               | 20 °C                               | -10 °C |                                               | 20 °C                               | -10 °C |                                               |
| 4 × 7                                   | 2.00                                | 5.00   | 65                                            |                                     |         |                                               |                                     |        |                                               |                                     |        |                                               |
| 5 × 7                                   | 0.950                               | 2.40   | 120                                           |                                     |         |                                               |                                     |        |                                               |                                     |        |                                               |
| 6.3 × 7                                 | 0.450                               | 1.20   | 200                                           |                                     |         |                                               |                                     |        |                                               |                                     |        |                                               |
| 4 × 11                                  | 1.30                                | 2.60   | 120                                           | 2.50                                | 5.00    | 90                                            | 3.50                                | 7.00   | 80                                            |                                     |        |                                               |
| 5 × 11                                  | 0.800                               | 1.60   | 175                                           | 2.40 *1                             | 4.80 *1 | *3                                            | 2.00                                | 4.00   | 145                                           | 4.10                                | 8.20   | 80                                            |
|                                         |                                     |        |                                               | *2, *3                              | *2, *3  | *3                                            |                                     |        |                                               |                                     |        |                                               |
| 5 × 15                                  | 0.500                               | 1.00   | 235                                           | 0.900                               | 1.80    | 215                                           | 1.30                                | 2.60   | 200                                           | 2.80                                | 5.60   | 90                                            |
| 6.3 × 11.2                              | 0.350                               | 0.700  | 290                                           | 0.600                               | 1.20    | 260                                           | 1.00                                | 2.00   | 240                                           | 1.80                                | 3.60   | 114                                           |
| 6.3 × 15                                | 0.250                               | 0.500  | 400                                           | 0.400                               | 0.800   | 360                                           | 0.700                               | 1.40   | 330                                           | 1.10                                | 2.20   | 155                                           |
| 8 × 11.5                                | 0.117                               | 0.234  | 555                                           | 0.234                               | 0.468   | 485                                           | 0.342                               | 0.684  | 405                                           | 0.680                               | 1.36   | 260                                           |
| 8 × 15                                  | 0.085                               | 0.170  | 730                                           | 0.155                               | 0.310   | 635                                           | 0.230                               | 0.460  | 535                                           | 0.450                               | 0.900  | 340                                           |
| 8 × 20                                  | 0.065                               | 0.130  | 995                                           | 0.120                               | 0.240   | 860                                           | 0.178                               | 0.356  | 690                                           | 0.330                               | 0.660  | 455                                           |
| 10 × 12.5                               | 0.090                               | 0.180  | 755                                           | 0.162                               | 0.324   | 615                                           | 0.256                               | 0.512  | 535                                           | 0.530                               | 1.06   | 306                                           |
| 10 × 16                                 | 0.068                               | 0.136  | 1050                                          | 0.119                               | 0.238   | 850                                           | 0.194                               | 0.388  | 600                                           | 0.360                               | 0.720  | 400                                           |
| 10 × 20                                 | 0.052                               | 0.104  | 1220                                          | 0.090                               | 0.180   | 1030                                          | 0.147                               | 0.294  | 885                                           | 0.240                               | 0.480  | 463                                           |
| 10 × 25                                 | 0.045                               | 0.090  | 1440                                          | 0.082                               | 0.164   | 1200                                          | 0.130                               | 0.260  | 1050                                          | 0.210                               | 0.420  | 599                                           |
| 10 × 30                                 | 0.035                               | 0.070  | 1815                                          | 0.060                               | 0.120   | 1610                                          | 0.090                               | 0.180  | 1300                                          | 0.150                               | 0.300  | 698                                           |
| 12.5 × 15                               | 0.065                               | 0.130  | 1205                                          | 0.110                               | 0.220   | 1150                                          | 0.150                               | 0.300  | 1020                                          | 0.230                               | 0.460  | 511                                           |
| 12.5 × 20                               | 0.038                               | 0.076  | 1655                                          | 0.063                               | 0.126   | 1480                                          | 0.085                               | 0.170  | 1285                                          | 0.180                               | 0.360  | 671                                           |
| 12.5 × 25                               | 0.030                               | 0.060  | 1945                                          | 0.050                               | 0.100   | 1832                                          | 0.070                               | 0.140  | 1720                                          | 0.110                               | 0.220  | 807                                           |
| 12.5 × 30                               | 0.025                               | 0.050  | 2310                                          | 0.040                               | 0.080   | 2215                                          | 0.055                               | 0.110  | 2090                                          | 0.098                               | 0.196  | 937                                           |
| 12.5 × 35                               | 0.022                               | 0.044  | 2510                                          | 0.034                               | 0.068   | 2285                                          | 0.047                               | 0.094  | 2265                                          | 0.087                               | 0.174  | 1040                                          |
| 12.5 × 40                               | 0.018                               | 0.036  | 2655                                          | 0.030                               | 0.060   | 2590                                          | 0.042                               | 0.084  | 2560                                          | 0.072                               | 0.144  | 1130                                          |
| 16 × 15                                 | 0.043                               | 0.086  | 1690                                          | 0.080                               | 0.160   | 1610                                          | 0.090                               | 0.180  | 1410                                          | 0.140                               | 0.280  | 793                                           |
| 16 × 20                                 | 0.029                               | 0.058  | 2205                                          | 0.048                               | 0.096   | 1835                                          | 0.059                               | 0.118  | 1765                                          | 0.110                               | 0.220  | 995                                           |
| 16 × 25                                 | 0.022                               | 0.044  | 2555                                          | 0.034                               | 0.068   | 2235                                          | 0.050                               | 0.100  | 2160                                          | 0.089                               | 0.178  | 1170                                          |
| 16 × 31.5                               | 0.018                               | 0.036  | 3010                                          | 0.028                               | 0.056   | 2700                                          | 0.043                               | 0.086  | 2670                                          | 0.062                               | 0.124  | 1520                                          |
| 16 × 35.5                               | 0.016                               | 0.032  | 3150                                          | 0.025                               | 0.050   | 2790                                          | 0.036                               | 0.072  | 2770                                          | 0.053                               | 0.106  | 1730                                          |
| 16 × 40                                 | 0.015                               | 0.030  | 3360                                          | 0.023                               | 0.046   | 2845                                          | 0.030                               | 0.060  | 2825                                          | 0.047                               | 0.094  | 1920                                          |
| 18 × 15                                 | 0.038                               | 0.076  | 2000                                          | 0.068                               | 0.136   | 1900                                          | 0.086                               | 0.172  | 1690                                          | 0.120                               | 0.240  | 917                                           |
| 18 × 20                                 | 0.028                               | 0.056  | 2490                                          | 0.042                               | 0.084   | 2420                                          | 0.055                               | 0.110  | 2290                                          | 0.080                               | 0.160  | 1230                                          |
| 18 × 25                                 | 0.020                               | 0.040  | 2740                                          | 0.029                               | 0.058   | 2610                                          | 0.043                               | 0.086  | 2585                                          | 0.070                               | 0.140  | 1420                                          |
| 18 × 31.5                               | 0.016                               | 0.032  | 3635                                          | 0.025                               | 0.050   | 3000                                          | 0.032                               | 0.064  | 2950                                          | 0.062                               | 0.124  | 1600                                          |
| 18 × 35.5                               | 0.015                               | 0.030  | 3680                                          | 0.023                               | 0.046   | 3100                                          | 0.030                               | 0.060  | 3095                                          | 0.041                               | 0.082  | 1770                                          |
| 18 × 40                                 | 0.014                               | 0.028  | 3735                                          | —                                   | —       | —                                             | 0.025                               | 0.050  | 3205                                          | 0.036                               | 0.072  | 2300                                          |

\*1 : Apply to 1  $\mu$ F\*2 : Apply to 2.2, 3.3, 4.7, 10L, 12, 18 and 22  $\mu$ F

\*3

| Case size<br>( $\phi$ D×L) | Capacitance<br>( $\mu$ F) | Impedance ( $\Omega$ )/(100 kHz) |        | Ripple Current<br>(mA r.m.s)/(100 kHz) |
|----------------------------|---------------------------|----------------------------------|--------|----------------------------------------|
|                            |                           | 20 °C                            | -10 °C |                                        |
| 5 × 11                     | 1.0                       | 2.40                             | 4.80   | 20                                     |
|                            | 2.2                       | 1.80                             | 3.60   | 45                                     |
|                            | 3.3                       | 1.30                             | 2.60   | 65                                     |
|                            | 4.7                       | 1.30                             | 2.60   | 95                                     |
|                            | 10L                       | 1.30                             | 2.60   | 125                                    |
|                            | 12                        | 1.30                             | 2.60   | 135                                    |
|                            | 15                        | 1.30                             | 2.60   | 145                                    |
|                            | 18                        | 1.30                             | 2.60   | 155                                    |
|                            | 22                        | 1.30                             | 2.60   | 155                                    |

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## ■ Standard Products

| W.V. | Cap.<br>(±20 %) | Case size |        | Specification                                              |                                                |                           | Lead Length          |            |              |              | Part No.       | Min. Packaging Q'ty |        |
|------|-----------------|-----------|--------|------------------------------------------------------------|------------------------------------------------|---------------------------|----------------------|------------|--------------|--------------|----------------|---------------------|--------|
|      |                 | Dia.      | Length | Ripple<br>Current<br>(100 kHz)<br>(+105 °C)<br>(mA r.m.s.) | Imped-<br>ance<br>(100 kHz)<br>(+20 °C)<br>(Ω) | Endur-<br>ance<br>(hours) | Lead<br>Dia.<br>(mm) | Lead Space |              |              |                | Straight<br>Leads   | Taping |
|      |                 |           |        |                                                            |                                                |                           |                      | Straight   | Taping<br>*B | Taping<br>*H |                |                     |        |
| (V)  | (μF)            | (mm)      | (mm)   | (mA r.m.s.)                                                | (Ω)                                            | (hours)                   | (mm)                 | (mm)       | (mm)         | (mm)         |                | (pcs)               | (pcs)  |
| 6.3  | 27              | 4         | 7      | 65                                                         | 2.000                                          | 1000                      | 0.45                 | 1.5        | 5.0          | 2.5          | EEAFC0J270( )  | 200                 | 2000   |
|      | 56              | 5         | 7      | 120                                                        | 0.950                                          | 1000                      | 0.45                 | 2.0        | 5.0          | 2.5          | EEAFC0J560( )  | 200                 | 2000   |
|      | 68              | 4         | 11     | 120                                                        | 1.300                                          | 1000                      | 0.45                 | 1.5        | 5.0          | 2.5          | EEUFC0J680( )  | 200                 | 2000   |
|      | 100             | 5         | 11     | 175                                                        | 0.800                                          | 1000                      | 0.50                 | 2.0        | 5.0          | 2.5          | EEUFC0J101( )  | 200                 | 2000   |
|      | 120             | 6.3       | 7      | 200                                                        | 0.450                                          | 1000                      | 0.45                 | 2.5        | 5.0          | 2.5          | EEAFC0J121( )  | 200                 | 2000   |
|      | 150             | 5         | 15     | 235                                                        | 0.500                                          | 1000                      | 0.50                 | 2.0        | 5.0          | 2.5          | EEUFC0J151( )  | 200                 | 2000   |
|      | 220             | 6.3       | 11.2   | 290                                                        | 0.350                                          | 1000                      | 0.50                 | 2.5        | 5.0          | 2.5          | EEUFC0J221( )  | 200                 | 2000   |
|      | 270             | 6.3       | 11.2   | 290                                                        | 0.350                                          | 1000                      | 0.50                 | 2.5        | 5.0          | 2.5          | EEUFC0J271( )  | 200                 | 2000   |
|      | 330             | 6.3       | 11.2   | 290                                                        | 0.350                                          | 1000                      | 0.50                 | 2.5        | 5.0          | 2.5          | EEUFC0J331S( ) | 200                 | 2000   |
|      |                 | 6.3       | 15     | 400                                                        | 0.250                                          | 1000                      | 0.50                 | 2.5        | 5.0          | 2.5          | EEUFC0J331( )  | 200                 | 2000   |
|      | 390             | 8         | 11.5   | 555                                                        | 0.117                                          | 2000                      | 0.60                 | 3.5        | 5.0          |              | EEUFC0J391( )  | 200                 | 1000   |
|      | 470             | 8         | 11.5   | 555                                                        | 0.117                                          | 2000                      | 0.60                 | 3.5        | 5.0          |              | EEUFC0J471( )  | 200                 | 1000   |
|      | 560             | 8         | 11.5   | 555                                                        | 0.117                                          | 2000                      | 0.60                 | 3.5        | 5.0          |              | EEUFC0J561( )  | 200                 | 1000   |
|      | 820             | 8         | 15     | 730                                                        | 0.085                                          | 2000                      | 0.60                 | 3.5        | 5.0          |              | EEUFC0J821L( ) | 200                 | 1000   |
|      |                 | 10        | 12.5   | 755                                                        | 0.090                                          | 3000                      | 0.60                 | 5.0        | 5.0          |              | EEUFC0J821( )  | 200                 | 500    |
|      | 1000            | 10        | 12.5   | 755                                                        | 0.090                                          | 3000                      | 0.60                 | 5.0        | 5.0          |              | EEUFC0J102( )  | 200                 | 500    |
|      | 1200            | 8         | 20     | 995                                                        | 0.065                                          | 2000                      | 0.60                 | 3.5        | 5.0          |              | EEUFC0J122L( ) | 200                 | 1000   |
|      |                 | 10        | 16     | 1050                                                       | 0.068                                          | 3000                      | 0.60                 | 5.0        | 5.0          |              | EEUFC0J122( )  | 200                 | 500    |
|      | 1500            | 10        | 20     | 1220                                                       | 0.052                                          | 3000                      | 0.60                 | 5.0        | 5.0          |              | EEUFC0J152( )  | 200                 | 500    |
|      |                 | 12.5      | 15     | 1205                                                       | 0.065                                          | 5000                      | 0.60                 | 5.0        | 5.0          |              | EEUFC0J152S( ) | 200                 | 500    |
|      | 1800            | 10        | 25     | 1440                                                       | 0.045                                          | 3000                      | 0.60                 | 5.0        | 5.0          |              | EEUFC0J182( )  | 200                 | 500    |
|      | 2200            | 10        | 25     | 1440                                                       | 0.045                                          | 3000                      | 0.60                 | 5.0        | 5.0          |              | EEUFC0J222( )  | 200                 | 500    |
|      |                 | 16        | 15     | 1690                                                       | 0.043                                          | 5000                      | 0.80                 | 7.5        | 7.5          |              | EEUFC0J222S( ) | 100                 | 250    |
|      | 2700            | 10        | 30     | 1815                                                       | 0.035                                          | 3000                      | 0.60                 | 5.0        |              |              | EEUFC0J272L    | 100                 |        |
|      |                 | 12.5      | 20     | 1655                                                       | 0.038                                          | 5000                      | 0.60                 | 5.0        | 5.0          |              | EEUFC0J272( )  | 200                 | 500    |
|      |                 | 16        | 15     | 1690                                                       | 0.043                                          | 5000                      | 0.80                 | 7.5        | 7.5          |              | EEUFC0J272S( ) | 100                 | 250    |
|      | 3300            | 12.5      | 20     | 1655                                                       | 0.038                                          | 5000                      | 0.60                 | 5.0        | 5.0          |              | EEUFC0J332( )  | 200                 | 500    |
|      |                 | 18        | 15     | 2000                                                       | 0.038                                          | 5000                      | 0.80                 | 7.5        | 7.5          |              | EEUFC0J332S( ) | 100                 | 250    |
|      | 3900            | 12.5      | 25     | 1945                                                       | 0.030                                          | 5000                      | 0.60                 | 5.0        | 5.0          |              | EEUFC0J392( )  | 200                 | 500    |
|      | 4700            | 12.5      | 30     | 2310                                                       | 0.025                                          | 5000                      | 0.80                 | 5.0        |              |              | EEUFC0J472     | 100                 |        |
|      |                 | 16        | 20     | 2205                                                       | 0.029                                          | 5000                      | 0.80                 | 7.5        | 7.5          |              | EEUFC0J472S( ) | 100                 | 250    |
|      | 5600            | 12.5      | 35     | 2510                                                       | 0.022                                          | 5000                      | 0.80                 | 5.0        |              |              | EEUFC0J562L    | 100                 |        |
|      |                 | 16        | 20     | 2205                                                       | 0.029                                          | 5000                      | 0.80                 | 7.5        | 7.5          |              | EEUFC0J562( )  | 100                 | 250    |
|      | 6800            | 12.5      | 40     | 2655                                                       | 0.018                                          | 5000                      | 0.80                 | 5.0        |              |              | EEUFC0J682L    | 100                 |        |
|      |                 | 16        | 25     | 2555                                                       | 0.022                                          | 5000                      | 0.80                 | 7.5        | 7.5          |              | EEUFC0J682( )  | 100                 | 250    |
|      |                 | 18        | 20     | 2490                                                       | 0.028                                          | 5000                      | 0.80                 | 7.5        | 7.5          |              | EEUFC0J682S( ) | 100                 | 250    |
|      | 8200            | 16        | 31.5   | 3010                                                       | 0.018                                          | 5000                      | 0.80                 | 7.5        |              |              | EEUFC0J822     | 100                 |        |
|      | 10000           | 16        | 35.5   | 3150                                                       | 0.016                                          | 5000                      | 0.80                 | 7.5        |              |              | EEUFC0J103     | 100                 |        |
|      |                 | 18        | 25     | 2740                                                       | 0.020                                          | 5000                      | 0.80                 | 7.5        | 7.5          |              | EEUFC0J103S( ) | 100                 | 250    |
|      | 12000           | 16        | 40     | 3360                                                       | 0.015                                          | 5000                      | 0.80                 | 7.5        |              |              | EEUFC0J123L    | 100                 |        |
|      |                 | 18        | 31.5   | 3635                                                       | 0.016                                          | 5000                      | 0.80                 | 7.5        |              |              | EEUFC0J123     | 50                  |        |
|      | 15000           | 18        | 35.5   | 3680                                                       | 0.015                                          | 5000                      | 0.80                 | 7.5        |              |              | EEUFC0J153     | 50                  |        |

When requesting taped product, please put the letter "B" or "H" between the "( )". Lead wire pitch B=5 mm, 7.5 mm, H=2.5 mm. The taping dimensions are explained on EE189 of our Catalog. Please use it as a reference guide.

■ Standard Products

| W.V.<br><br>(V) | Cap.<br>(±20 %)<br><br>(μF) | Case size |        | Specification                                              |                                                |                           | Lead Length          |                  |                      |                      | Part No.       | Min. Packaging Q'ty            |                     |
|-----------------|-----------------------------|-----------|--------|------------------------------------------------------------|------------------------------------------------|---------------------------|----------------------|------------------|----------------------|----------------------|----------------|--------------------------------|---------------------|
|                 |                             | Dia.      | Length | Ripple<br>Current<br>(100 kHz)<br>(+105 °C)<br>(mA r.m.s.) | Imped-<br>ance<br>(100 kHz)<br>(+20 °C)<br>(Ω) | Endur-<br>ance<br>(hours) | Lead<br>Dia.<br>(mm) | Lead Space       |                      |                      |                | Straight<br>Leads<br><br>(pcs) | Taping<br><br>(pcs) |
|                 |                             |           |        |                                                            |                                                |                           |                      | Straight<br>(mm) | Taping<br>*B<br>(mm) | Taping<br>*H<br>(mm) |                |                                |                     |
| 10              | 22                          | 4         | 7      | 65                                                         | 2.000                                          | 1000                      | 0.45                 | 1.5              | 5.0                  | 2.5                  | EEAFC1A220( )  | 200                            | 2000                |
|                 | 39                          | 5         | 7      | 120                                                        | 0.950                                          | 1000                      | 0.45                 | 2.0              | 5.0                  | 2.5                  | EEAFC1A390( )  | 200                            | 2000                |
|                 | 47                          | 4         | 11     | 120                                                        | 1.300                                          | 1000                      | 0.45                 | 1.5              | 5.0                  | 2.5                  | EEUFC1A470( )  | 200                            | 2000                |
|                 | 82                          | 5         | 11     | 175                                                        | 0.800                                          | 1000                      | 0.50                 | 2.0              | 5.0                  | 2.5                  | EEUFC1A820( )  | 200                            | 2000                |
|                 |                             | 6.3       | 7      | 200                                                        | 0.450                                          | 1000                      | 0.45                 | 2.5              | 5.0                  | 2.5                  | EEAFC1A820( )  | 200                            | 2000                |
|                 | 100                         | 5         | 11     | 175                                                        | 0.800                                          | 1000                      | 0.50                 | 2.0              | 5.0                  | 2.5                  | EEUFC1A101S( ) | 200                            | 2000                |
|                 |                             | 5         | 15     | 235                                                        | 0.500                                          | 1000                      | 0.50                 | 2.0              | 5.0                  | 2.5                  | EEUFC1A101( )  | 200                            | 2000                |
|                 | 150                         | 6.3       | 11.2   | 290                                                        | 0.350                                          | 1000                      | 0.50                 | 2.5              | 5.0                  | 2.5                  | EEUFC1A151( )  | 200                            | 2000                |
|                 | 180                         | 6.3       | 11.2   | 290                                                        | 0.350                                          | 1000                      | 0.50                 | 2.5              | 5.0                  | 2.5                  | EEUFC1A181( )  | 200                            | 2000                |
|                 | 220                         | 6.3       | 11.2   | 290                                                        | 0.350                                          | 1000                      | 0.50                 | 2.5              | 5.0                  | 2.5                  | EEUFC1A221S( ) | 200                            | 2000                |
|                 |                             | 6.3       | 15     | 400                                                        | 0.250                                          | 1000                      | 0.50                 | 2.5              | 5.0                  | 2.5                  | EEUFC1A221( )  | 200                            | 2000                |
|                 | 330                         | 8         | 11.5   | 555                                                        | 0.117                                          | 2000                      | 0.60                 | 3.5              | 5.0                  |                      | EEUFC1A331( )  | 200                            | 1000                |
|                 | 390                         | 8         | 11.5   | 555                                                        | 0.117                                          | 2000                      | 0.60                 | 3.5              | 5.0                  |                      | EEUFC1A391( )  | 200                            | 1000                |
|                 | 470                         | 8         | 11.5   | 555                                                        | 0.117                                          | 2000                      | 0.60                 | 3.5              | 5.0                  |                      | EEUFC1A471( )  | 200                            | 1000                |
|                 | 560                         | 10        | 12.5   | 755                                                        | 0.090                                          | 3000                      | 0.60                 | 5.0              | 5.0                  |                      | EEUFC1A561( )  | 200                            | 500                 |
|                 | 680                         | 8         | 15     | 730                                                        | 0.085                                          | 2000                      | 0.60                 | 3.5              | 5.0                  |                      | EEUFC1A681L( ) | 200                            | 1000                |
|                 |                             | 10        | 12.5   | 755                                                        | 0.090                                          | 3000                      | 0.60                 | 5.0              | 5.0                  |                      | EEUFC1A681( )  | 200                            | 500                 |
|                 | 820                         | 10        | 16     | 1050                                                       | 0.068                                          | 3000                      | 0.60                 | 5.0              | 5.0                  |                      | EEUFC1A821( )  | 200                            | 500                 |
|                 | 1000                        | 8         | 20     | 995                                                        | 0.065                                          | 2000                      | 0.60                 | 3.5              | 5.0                  |                      | EEUFC1A102L( ) | 200                            | 1000                |
|                 |                             | 10        | 16     | 1050                                                       | 0.068                                          | 3000                      | 0.60                 | 5.0              | 5.0                  |                      | EEUFC1A102( )  | 200                            | 500                 |
|                 | 1200                        | 10        | 20     | 1220                                                       | 0.052                                          | 3000                      | 0.60                 | 5.0              | 5.0                  |                      | EEUFC1A122( )  | 200                            | 500                 |
|                 |                             | 12.5      | 15     | 1205                                                       | 0.065                                          | 5000                      | 0.60                 | 5.0              | 5.0                  |                      | EEUFC1A122S( ) | 200                            | 500                 |
|                 | 1500                        | 10        | 25     | 1440                                                       | 0.045                                          | 3000                      | 0.60                 | 5.0              | 5.0                  |                      | EEUFC1A152( )  | 200                            | 500                 |
|                 | 1800                        | 12.5      | 20     | 1655                                                       | 0.038                                          | 5000                      | 0.60                 | 5.0              | 5.0                  |                      | EEUFC1A182( )  | 200                            | 500                 |
|                 |                             | 16        | 15     | 1690                                                       | 0.043                                          | 5000                      | 0.80                 | 7.5              | 7.5                  |                      | EEUFC1A182S( ) | 100                            | 250                 |
|                 | 2200                        | 10        | 30     | 1815                                                       | 0.035                                          | 3000                      | 0.60                 | 5.0              |                      |                      | EEUFC1A222L    | 100                            |                     |
|                 |                             | 12.5      | 20     | 1655                                                       | 0.038                                          | 5000                      | 0.60                 | 5.0              | 5.0                  |                      | EEUFC1A222( )  | 200                            | 500                 |
|                 | 2700                        | 12.5      | 25     | 1945                                                       | 0.030                                          | 5000                      | 0.60                 | 5.0              | 5.0                  |                      | EEUFC1A272( )  | 200                            | 500                 |
|                 |                             | 18        | 15     | 2000                                                       | 0.038                                          | 5000                      | 0.80                 | 7.5              | 7.5                  |                      | EEUFC1A272S( ) | 100                            | 250                 |
|                 | 3300                        | 12.5      | 30     | 2310                                                       | 0.025                                          | 5000                      | 0.80                 | 5.0              |                      |                      | EEUFC1A332     | 100                            |                     |
|                 |                             | 16        | 20     | 2205                                                       | 0.029                                          | 5000                      | 0.80                 | 7.5              | 7.5                  |                      | EEUFC1A332S( ) | 100                            | 250                 |
|                 | 3900                        | 12.5      | 35     | 2510                                                       | 0.022                                          | 5000                      | 0.80                 | 5.0              |                      |                      | EEUFC1A392L    | 100                            |                     |
|                 |                             | 16        | 20     | 2205                                                       | 0.029                                          | 5000                      | 0.80                 | 7.5              | 7.5                  |                      | EEUFC1A392( )  | 100                            | 250                 |
|                 | 4700                        | 12.5      | 40     | 2655                                                       | 0.018                                          | 5000                      | 0.80                 | 5.0              |                      |                      | EEUFC1A472L    | 100                            |                     |
|                 |                             | 16        | 25     | 2555                                                       | 0.022                                          | 5000                      | 0.80                 | 7.5              | 7.5                  |                      | EEUFC1A472( )  | 100                            | 250                 |
|                 | 5600                        | 16        | 25     | 2555                                                       | 0.022                                          | 5000                      | 0.80                 | 7.5              | 7.5                  |                      | EEUFC1A562( )  | 100                            | 250                 |
|                 |                             | 18        | 20     | 2490                                                       | 0.028                                          | 5000                      | 0.80                 | 7.5              | 7.5                  |                      | EEUFC1A562S( ) | 100                            | 250                 |
|                 | 6800                        | 16        | 31.5   | 3010                                                       | 0.018                                          | 5000                      | 0.80                 | 7.5              |                      |                      | EEUFC1A682     | 100                            |                     |
|                 |                             | 18        | 25     | 2740                                                       | 0.020                                          | 5000                      | 0.80                 | 7.5              | 7.5                  |                      | EEUFC1A682S( ) | 100                            | 250                 |
|                 | 8200                        | 16        | 35.5   | 3150                                                       | 0.016                                          | 5000                      | 0.80                 | 7.5              |                      |                      | EEUFC1A822L    | 100                            |                     |
|                 |                             | 18        | 31.5   | 3635                                                       | 0.016                                          | 5000                      | 0.80                 | 7.5              |                      |                      | EEUFC1A822     | 50                             |                     |
|                 | 10000                       | 18        | 35.5   | 3680                                                       | 0.015                                          | 5000                      | 0.80                 | 7.5              |                      |                      | EEUFC1A103     | 50                             |                     |
|                 | 12000                       | 18        | 40     | 3735                                                       | 0.014                                          | 5000                      | 0.80                 | 7.5              |                      |                      | EEUFC1A123     | 50                             |                     |

When requesting taped product, please put the letter "B" or "H" between the "( )". Lead wire pitch B=5 mm, 7.5 mm, H=2.5 mm. The taping dimensions are explained on EE189 of our Catalog. Please use it as a reference guide.

## ■ Standard Products

| W.V. | Cap.<br>(±20 %) | Case size |        | Specification                                           |                                           |                      | Lead Length |            |              |              | Part No.       | Min. Packaging Q'ty |        |
|------|-----------------|-----------|--------|---------------------------------------------------------|-------------------------------------------|----------------------|-------------|------------|--------------|--------------|----------------|---------------------|--------|
|      |                 | Dia.      | Length | Ripple Current<br>(100 kHz)<br>(+105 °C)<br>(mA r.m.s.) | Impedance<br>(100 kHz)<br>(+20 °C)<br>(Ω) | Endurance<br>(hours) | Lead Dia.   | Lead Space |              |              |                | Straight Leads      | Taping |
|      |                 |           |        |                                                         |                                           |                      |             | Straight   | Taping<br>*B | Taping<br>*H |                |                     |        |
| (V)  | (μF)            | (mm)      | (mm)   | (mA r.m.s.)                                             | (Ω)                                       | (hours)              | (mm)        | (mm)       | (mm)         | (mm)         |                | (pcs)               | (pcs)  |
| 16   | 15              | 4         | 7      | 65                                                      | 2.000                                     | 1000                 | 0.45        | 1.5        | 5.0          | 2.5          | EEAFC1C150( )  | 200                 | 2000   |
|      | 27              | 5         | 7      | 120                                                     | 0.950                                     | 1000                 | 0.45        | 2.0        | 5.0          | 2.5          | EEAFC1C270( )  | 200                 | 2000   |
|      | 39              | 4         | 11     | 120                                                     | 1.30                                      | 1000                 | 0.45        | 1.5        | 5.0          | 2.5          | EEUFC1C390( )  | 200                 | 2000   |
|      | 47              | 5         | 11     | 175                                                     | 0.800                                     | 1000                 | 0.50        | 2.0        | 5.0          | 2.5          | EEUFC1C470( )  | 200                 | 2000   |
|      | 56              | 5         | 11     | 175                                                     | 0.800                                     | 1000                 | 0.50        | 2.0        | 5.0          | 2.5          | EEUFC1C560( )  | 200                 | 2000   |
|      |                 | 6.3       | 7      | 200                                                     | 0.450                                     | 1000                 | 0.45        | 2.5        | 5.0          | 2.5          | EEAFC1C560( )  | 200                 | 2000   |
|      | 68              | 5         | 11     | 175                                                     | 0.800                                     | 1000                 | 0.50        | 2.0        | 5.0          | 2.5          | EEUFC1C680( )  | 200                 | 2000   |
|      | 82              | 5         | 15     | 235                                                     | 0.500                                     | 1000                 | 0.50        | 2.0        | 5.0          | 2.5          | EEUFC1C820( )  | 200                 | 2000   |
|      | 100             | 6.3       | 11.2   | 290                                                     | 0.350                                     | 1000                 | 0.50        | 2.5        | 5.0          | 2.5          | EEUFC1C101( )  | 200                 | 2000   |
|      | 120             | 6.3       | 11.2   | 290                                                     | 0.350                                     | 1000                 | 0.50        | 2.5        | 5.0          | 2.5          | EEUFC1C121( )  | 200                 | 2000   |
|      | 180             | 6.3       | 15     | 400                                                     | 0.250                                     | 1000                 | 0.50        | 2.5        | 5.0          | 2.5          | EEUFC1C181( )  | 200                 | 2000   |
|      | 220             | 8         | 11.5   | 555                                                     | 0.117                                     | 2000                 | 0.60        | 3.5        | 5.0          |              | EEUFC1C221( )  | 200                 | 1000   |
|      | 270             | 8         | 11.5   | 555                                                     | 0.117                                     | 2000                 | 0.60        | 3.5        | 5.0          |              | EEUFC1C271( )  | 200                 | 1000   |
|      | 330             | 8         | 11.5   | 555                                                     | 0.117                                     | 2000                 | 0.60        | 3.5        | 5.0          |              | EEUFC1C331( )  | 200                 | 1000   |
|      | 390             | 10        | 12.5   | 755                                                     | 0.090                                     | 3000                 | 0.60        | 5.0        | 5.0          |              | EEUFC1C391( )  | 200                 | 500    |
|      | 470             | 8         | 15     | 730                                                     | 0.085                                     | 2000                 | 0.60        | 3.5        | 5.0          |              | EEUFC1C471L( ) | 200                 | 1000   |
|      |                 | 10        | 12.5   | 755                                                     | 0.090                                     | 3000                 | 0.60        | 5.0        | 5.0          |              | EEUFC1C471( )  | 200                 | 500    |
|      | 560             | 10        | 16     | 1050                                                    | 0.068                                     | 3000                 | 0.60        | 5.0        | 5.0          |              | EEUFC1C561( )  | 200                 | 500    |
|      | 680             | 8         | 20     | 995                                                     | 0.065                                     | 2000                 | 0.60        | 3.5        | 5.0          |              | EEUFC1C681L( ) | 200                 | 1000   |
|      |                 | 10        | 16     | 1050                                                    | 0.068                                     | 3000                 | 0.60        | 5.0        | 5.0          |              | EEUFC1C681( )  | 200                 | 500    |
|      | 820             | 10        | 20     | 1220                                                    | 0.052                                     | 3000                 | 0.60        | 5.0        | 5.0          |              | EEUFC1C821( )  | 200                 | 500    |
|      |                 | 12.5      | 15     | 1205                                                    | 0.065                                     | 5000                 | 0.60        | 5.0        | 5.0          |              | EEUFC1C821S( ) | 200                 | 500    |
|      | 1000            | 10        | 20     | 1220                                                    | 0.052                                     | 3000                 | 0.60        | 5.0        | 5.0          |              | EEUFC1C102S( ) | 200                 | 500    |
|      |                 | 10        | 25     | 1440                                                    | 0.045                                     | 3000                 | 0.60        | 5.0        | 5.0          |              | EEUFC1C102( )  | 200                 | 500    |
|      | 1200            | 10        | 25     | 1440                                                    | 0.045                                     | 3000                 | 0.60        | 5.0        | 5.0          |              | EEUFC1C122( )  | 200                 | 500    |
|      |                 | 16        | 15     | 1690                                                    | 0.043                                     | 5000                 | 0.80        | 7.5        | 7.5          |              | EEUFC1C122S( ) | 100                 | 250    |
|      | 1500            | 10        | 30     | 1815                                                    | 0.035                                     | 3000                 | 0.60        | 5.0        |              |              | EEUFC1C152L    | 100                 |        |
|      |                 | 12.5      | 20     | 1655                                                    | 0.038                                     | 5000                 | 0.60        | 5.0        | 5.0          |              | EEUFC1C152( )  | 200                 | 500    |
|      |                 | 16        | 15     | 1690                                                    | 0.043                                     | 5000                 | 0.80        | 7.5        | 7.5          |              | EEUFC1C152S( ) | 100                 | 250    |
|      | 1800            | 12.5      | 25     | 1945                                                    | 0.030                                     | 5000                 | 0.60        | 5.0        | 5.0          |              | EEUFC1C182( )  | 200                 | 500    |
|      |                 | 18        | 15     | 2000                                                    | 0.038                                     | 5000                 | 0.80        | 7.5        | 7.5          |              | EEUFC1C182S( ) | 100                 | 250    |
|      | 2200            | 12.5      | 25     | 1945                                                    | 0.030                                     | 5000                 | 0.60        | 5.0        | 5.0          |              | EEUFC1C222( )  | 200                 | 500    |
|      |                 | 16        | 20     | 2205                                                    | 0.029                                     | 5000                 | 0.80        | 7.5        | 7.5          |              | EEUFC1C222S( ) | 100                 | 250    |
|      | 2700            | 12.5      | 30     | 2310                                                    | 0.025                                     | 5000                 | 0.80        | 5.0        |              |              | EEUFC1C272L    | 100                 |        |
|      |                 | 16        | 20     | 2205                                                    | 0.029                                     | 5000                 | 0.80        | 7.5        | 7.5          |              | EEUFC1C272( )  | 100                 | 250    |
|      | 3300            | 12.5      | 35     | 2510                                                    | 0.022                                     | 5000                 | 0.80        | 5.0        |              |              | EEUFC1C332     | 100                 |        |
|      |                 | 18        | 20     | 2490                                                    | 0.028                                     | 5000                 | 0.80        | 7.5        | 7.5          |              | EEUFC1C332S( ) | 100                 | 250    |
|      | 3900            | 16        | 25     | 2555                                                    | 0.022                                     | 5000                 | 0.80        | 7.5        | 7.5          |              | EEUFC1C392( )  | 100                 | 250    |
|      |                 | 18        | 20     | 2490                                                    | 0.028                                     | 5000                 | 0.80        | 7.5        | 7.5          |              | EEUFC1C392S( ) | 100                 | 250    |
|      | 4700            | 16        | 31.5   | 3010                                                    | 0.018                                     | 5000                 | 0.80        | 7.5        |              |              | EEUFC1C472     | 100                 |        |
|      |                 | 18        | 25     | 2740                                                    | 0.020                                     | 5000                 | 0.80        | 7.5        | 7.5          |              | EEUFC1C472S( ) | 100                 | 250    |
|      | 5600            | 16        | 35.5   | 3150                                                    | 0.016                                     | 5000                 | 0.80        | 7.5        |              |              | EEUFC1C562L    | 100                 |        |
|      |                 | 18        | 31.5   | 3635                                                    | 0.016                                     | 5000                 | 0.80        | 7.5        |              |              | EEUFC1C562     | 50                  |        |
|      | 6800            | 16        | 40     | 3360                                                    | 0.015                                     | 5000                 | 0.80        | 7.5        |              |              | EEUFC1C682     | 100                 |        |
|      | 8200            | 18        | 35.5   | 3680                                                    | 0.015                                     | 5000                 | 0.80        | 7.5        |              |              | EEUFC1C822     | 50                  |        |

When requesting taped product, please put the letter "B" or "H" between the "( )". Lead wire pitch B=5 mm, 7.5 mm, H=2.5 mm. The taping dimensions are explained on EE189 of our Catalog. Please use it as a reference guide.

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.

00 Sep. 2010

■ Standard Products

| W.V. | Cap.<br>(±20 %) | Case size |        | Specification                                              |                                                |                           | Lead Length  |            |              |              | Part No.       | Min. Packaging Q'ty |        |
|------|-----------------|-----------|--------|------------------------------------------------------------|------------------------------------------------|---------------------------|--------------|------------|--------------|--------------|----------------|---------------------|--------|
|      |                 | Dia.      | Length | Ripple<br>Current<br>(100 kHz)<br>(+105 °C)<br>(mA r.m.s.) | Imped-<br>ance<br>(100 kHz)<br>(+20 °C)<br>(Ω) | Endur-<br>ance<br>(hours) | Lead<br>Dia. | Lead Space |              |              |                | Straight<br>Leads   | Taping |
|      |                 |           |        |                                                            |                                                |                           |              | Straight   | Taping<br>*B | Taping<br>*H |                |                     |        |
| (V)  | (μF)            | (mm)      | (mm)   | (mA r.m.s.)                                                | (Ω)                                            | (hours)                   | (mm)         | (mm)       | (mm)         | (mm)         |                | (pcs)               | (pcs)  |
| 25   | 10              | 4         | 7      | 65                                                         | 2.000                                          | 1000                      | 0.45         | 1.5        | 5.0          | 2.5          | EEAFC1E100( )  | 200                 | 2000   |
|      | 22              | 5         | 7      | 120                                                        | 0.950                                          | 1000                      | 0.45         | 2.0        | 5.0          | 2.5          | EEAFC1E220( )  | 200                 | 2000   |
|      | 27              | 4         | 11     | 120                                                        | 1.30                                           | 1000                      | 0.45         | 1.5        | 5.0          | 2.5          | EEUFC1E270( )  | 200                 | 2000   |
|      | 39              | 5         | 11     | 175                                                        | 0.800                                          | 1000                      | 0.50         | 2.0        | 5.0          | 2.5          | EEUFC1E390( )  | 200                 | 2000   |
|      |                 | 6.3       | 7      | 200                                                        | 0.450                                          | 1000                      | 0.45         | 2.5        | 5.0          | 2.5          | EEAFC1E390( )  | 200                 | 2000   |
|      | 47              | 5         | 11     | 175                                                        | 0.800                                          | 1000                      | 0.50         | 2.0        | 5.0          | 2.5          | EEUFC1E470( )  | 200                 | 2000   |
|      | 56              | 5         | 15     | 235                                                        | 0.500                                          | 1000                      | 0.50         | 2.0        | 5.0          | 2.5          | EEUFC1E560( )  | 200                 | 2000   |
|      | 82              | 6.3       | 11.2   | 290                                                        | 0.350                                          | 1000                      | 0.50         | 2.5        | 5.0          | 2.5          | EEUFC1E820( )  | 200                 | 2000   |
|      | 100             | 6.3       | 11.2   | 290                                                        | 0.350                                          | 1000                      | 0.50         | 2.5        | 5.0          | 2.5          | EEUFC1E101S( ) | 200                 | 2000   |
|      | 120             | 6.3       | 15     | 400                                                        | 0.250                                          | 1000                      | 0.50         | 2.5        | 5.0          | 2.5          | EEUFC1E121( )  | 200                 | 2000   |
|      | 180             | 8         | 11.5   | 555                                                        | 0.117                                          | 2000                      | 0.60         | 3.5        | 5.0          |              | EEUFC1E181( )  | 200                 | 1000   |
|      | 220             | 8         | 11.5   | 555                                                        | 0.117                                          | 2000                      | 0.60         | 3.5        | 5.0          |              | EEUFC1E221( )  | 200                 | 1000   |
|      | 270             | 10        | 12.5   | 755                                                        | 0.090                                          | 3000                      | 0.60         | 5.0        | 5.0          |              | EEUFC1E271( )  | 200                 | 500    |
|      | 330             | 8         | 15     | 730                                                        | 0.085                                          | 2000                      | 0.60         | 3.5        | 5.0          |              | EEUFC1E331L( ) | 200                 | 1000   |
|      |                 | 10        | 12.5   | 755                                                        | 0.090                                          | 3000                      | 0.60         | 5.0        | 5.0          |              | EEUFC1E331( )  | 200                 | 500    |
|      | 390             | 10        | 16     | 1050                                                       | 0.068                                          | 3000                      | 0.60         | 5.0        | 5.0          |              | EEUFC1E391( )  | 200                 | 500    |
|      | 470             | 8         | 20     | 995                                                        | 0.065                                          | 2000                      | 0.60         | 3.5        | 5.0          |              | EEUFC1E471L( ) | 200                 | 1000   |
|      |                 | 10        | 16     | 1050                                                       | 0.068                                          | 3000                      | 0.60         | 5.0        | 5.0          |              | EEUFC1E471( )  | 200                 | 500    |
|      | 560             | 10        | 20     | 1220                                                       | 0.052                                          | 3000                      | 0.60         | 5.0        | 5.0          |              | EEUFC1E561( )  | 200                 | 500    |
|      |                 | 12.5      | 15     | 1205                                                       | 0.065                                          | 5000                      | 0.60         | 5.0        | 5.0          |              | EEUFC1E561S( ) | 200                 | 500    |
|      | 680             | 10        | 20     | 1220                                                       | 0.052                                          | 3000                      | 0.60         | 5.0        | 5.0          |              | EEUFC1E681( )  | 200                 | 500    |
|      | 820             | 10        | 25     | 1440                                                       | 0.045                                          | 3000                      | 0.60         | 5.0        | 5.0          |              | EEUFC1E821( )  | 200                 | 500    |
|      |                 | 12.5      | 20     | 1655                                                       | 0.038                                          | 5000                      | 0.60         | 5.0        | 5.0          |              | EEUFC1E821S( ) | 200                 | 500    |
|      | 1000            | 10        | 30     | 1815                                                       | 0.035                                          | 3000                      | 0.60         | 5.0        |              |              | EEUFC1E102L    | 100                 |        |
|      |                 | 12.5      | 20     | 1655                                                       | 0.038                                          | 5000                      | 0.60         | 5.0        | 5.0          |              | EEUFC1E102( )  | 200                 | 500    |
|      |                 | 16        | 15     | 1690                                                       | 0.043                                          | 5000                      | 0.80         | 7.5        | 7.5          |              | EEUFC1E102S( ) | 100                 | 250    |
|      | 1200            | 12.5      | 25     | 1945                                                       | 0.030                                          | 5000                      | 0.60         | 5.0        | 5.0          |              | EEUFC1E122( )  | 200                 | 500    |
|      |                 | 18        | 15     | 2000                                                       | 0.038                                          | 5000                      | 0.80         | 7.5        | 7.5          |              | EEUFC1E122S( ) | 100                 | 250    |
|      | 1500            | 12.5      | 25     | 1945                                                       | 0.030                                          | 5000                      | 0.60         | 5.0        | 5.0          |              | EEUFC1E152( )  | 200                 | 500    |
|      |                 | 16        | 20     | 2205                                                       | 0.029                                          | 5000                      | 0.80         | 7.5        | 7.5          |              | EEUFC1E152S( ) | 100                 | 250    |
|      | 1800            | 12.5      | 30     | 2310                                                       | 0.025                                          | 5000                      | 0.80         | 5.0        |              |              | EEUFC1E182L    | 100                 |        |
|      |                 | 16        | 20     | 2205                                                       | 0.029                                          | 5000                      | 0.80         | 7.5        | 7.5          |              | EEUFC1E182( )  | 100                 | 250    |
|      | 2200            | 12.5      | 35     | 2510                                                       | 0.022                                          | 5000                      | 0.80         | 5.0        |              |              | EEUFC1E222     | 100                 |        |
|      |                 | 18        | 20     | 2490                                                       | 0.028                                          | 5000                      | 0.80         | 7.5        | 7.5          |              | EEUFC1E222S( ) | 100                 | 250    |
|      | 2700            | 16        | 25     | 2555                                                       | 0.022                                          | 5000                      | 0.80         | 7.5        | 7.5          |              | EEUFC1E272( )  | 100                 | 250    |
|      | 3300            | 16        | 31.5   | 3010                                                       | 0.018                                          | 5000                      | 0.80         | 7.5        |              |              | EEUFC1E332     | 100                 |        |
|      |                 | 18        | 25     | 2740                                                       | 0.020                                          | 5000                      | 0.80         | 7.5        | 7.5          |              | EEUFC1E332S( ) | 100                 | 250    |
|      | 3900            | 16        | 35.5   | 3150                                                       | 0.016                                          | 5000                      | 0.80         | 7.5        |              |              | EEUFC1E392L    | 100                 |        |
|      |                 | 18        | 31.5   | 3635                                                       | 0.016                                          | 5000                      | 0.80         | 7.5        |              |              | EEUFC1E392     | 50                  |        |
|      | 4700            | 18        | 35.5   | 3680                                                       | 0.015                                          | 5000                      | 0.80         | 7.5        |              |              | EEUFC1E472     | 50                  |        |
|      | 5600            | 18        | 40     | 3735                                                       | 0.014                                          | 5000                      | 0.80         | 7.5        |              |              | EEUFC1E562     | 50                  |        |

When requesting taped product, please put the letter "B" or "H" between the "( )". Lead wire pitch B=5 mm, 7.5 mm, H=2.5 mm. The taping dimensions are explained on EE189 of our Catalog. Please use it as a reference guide.

## ■ Standard Products

| W.V. | Cap.<br>(±20 %) | Case size |        | Specification                                           |                                                |                           | Lead Length |            |              |              | Part No.       | Min. Packaging Q'ty |        |
|------|-----------------|-----------|--------|---------------------------------------------------------|------------------------------------------------|---------------------------|-------------|------------|--------------|--------------|----------------|---------------------|--------|
|      |                 | Dia.      | Length | Ripple Current<br>(100 kHz)<br>(+105 °C)<br>(mA r.m.s.) | Imped-<br>ance<br>(100 kHz)<br>(+20 °C)<br>(Ω) | Endur-<br>ance<br>(hours) | Lead Dia.   | Lead Space |              |              |                | Straight Leads      | Taping |
|      |                 |           |        |                                                         |                                                |                           |             | Straight   | Taping<br>*B | Taping<br>*H |                |                     |        |
| (V)  | (μF)            | (mm)      | (mm)   | (mA r.m.s.)                                             | (Ω)                                            | (hours)                   | (mm)        | (mm)       | (mm)         | (mm)         |                | (pcs)               | (pcs)  |
| 35   | 6.8             | 4         | 7      | 65                                                      | 2.000                                          | 1000                      | 0.45        | 1.5        | 5.0          | 2.5          | EEAFC1V6R8( )  | 200                 | 2000   |
|      | 12              | 5         | 7      | 120                                                     | 0.950                                          | 1000                      | 0.45        | 2.0        | 5.0          | 2.5          | EEAFC1V120( )  | 200                 | 2000   |
|      | 18              | 4         | 11     | 120                                                     | 1.300                                          | 1000                      | 0.45        | 1.5        | 5.0          | 2.5          | EEUFC1V180( )  | 200                 | 2000   |
|      | 22              | 5         | 11     | 175                                                     | 0.800                                          | 1000                      | 0.50        | 2.0        | 5.0          | 2.5          | EEUFC1V220( )  | 200                 | 2000   |
|      | 27              | 5         | 11     | 175                                                     | 0.800                                          | 1000                      | 0.50        | 2.0        | 5.0          | 2.5          | EEUFC1V270( )  | 200                 | 2000   |
|      |                 | 6.3       | 7      | 200                                                     | 0.450                                          | 1000                      | 0.45        | 2.5        | 5.0          | 2.5          | EEAFC1V270( )  | 200                 | 2000   |
|      | 33              | 5         | 11     | 175                                                     | 0.080                                          | 1000                      | 0.50        | 2.0        | 5.0          | 2.5          | EEUFC1V330( )  | 200                 | 2000   |
|      | 39              | 5         | 15     | 235                                                     | 0.500                                          | 1000                      | 0.50        | 2.0        | 5.0          | 2.5          | EEUFC1V390( )  | 200                 | 2000   |
|      | 47              | 6.3       | 11.2   | 290                                                     | 0.350                                          | 1000                      | 0.50        | 2.5        | 5.0          | 2.5          | EEUFC1V470( )  | 200                 | 2000   |
|      | 56              | 6.3       | 11.2   | 290                                                     | 0.350                                          | 1000                      | 0.50        | 2.5        | 5.0          | 2.5          | EEUFC1V560( )  | 200                 | 2000   |
|      | 68              | 6.3       | 11.2   | 290                                                     | 0.350                                          | 1000                      | 0.50        | 2.5        | 5.0          | 2.5          | EEUFC1V680( )  | 200                 | 2000   |
|      | 82              | 6.3       | 15     | 400                                                     | 0.250                                          | 1000                      | 0.50        | 2.5        | 5.0          | 2.5          | EEUFC1V820( )  | 200                 | 2000   |
|      | 100             | 8         | 11.5   | 555                                                     | 0.117                                          | 2000                      | 0.60        | 3.5        | 5.0          |              | EEUFC1V101( )  | 200                 | 1000   |
|      | 120             | 8         | 11.5   | 555                                                     | 0.117                                          | 2000                      | 0.60        | 3.5        | 5.0          |              | EEUFC1V121( )  | 200                 | 1000   |
|      | 150             | 8         | 11.5   | 555                                                     | 0.117                                          | 2000                      | 0.60        | 3.5        | 5.0          |              | EEUFC1V151( )  | 200                 | 1000   |
|      | 180             | 10        | 12.5   | 755                                                     | 0.090                                          | 3000                      | 0.60        | 5.0        | 5.0          |              | EEUFC1V181( )  | 200                 | 500    |
|      | 220             | 8         | 15     | 730                                                     | 0.085                                          | 2000                      | 0.60        | 3.5        | 5.0          |              | EEUFC1V221L( ) | 200                 | 1000   |
|      |                 | 10        | 12.5   | 755                                                     | 0.090                                          | 3000                      | 0.60        | 5.0        | 5.0          |              | EEUFC1V221( )  | 200                 | 500    |
|      | 270             | 10        | 16     | 1050                                                    | 0.068                                          | 3000                      | 0.60        | 5.0        | 5.0          |              | EEUFC1V271( )  | 200                 | 500    |
|      | 330             | 8         | 20     | 995                                                     | 0.065                                          | 2000                      | 0.60        | 3.5        | 5.0          |              | EEUFC1V331L( ) | 200                 | 1000   |
|      |                 | 10        | 16     | 1050                                                    | 0.068                                          | 3000                      | 0.60        | 5.0        | 5.0          |              | EEUFC1V331( )  | 200                 | 500    |
|      | 390             | 10        | 20     | 1220                                                    | 0.052                                          | 3000                      | 0.60        | 5.0        | 5.0          |              | EEUFC1V391( )  | 200                 | 500    |
|      |                 | 12.5      | 15     | 1205                                                    | 0.065                                          | 5000                      | 0.60        | 5.0        | 5.0          |              | EEUFC1V391S( ) | 200                 | 500    |
|      | 470             | 10        | 20     | 1220                                                    | 0.052                                          | 3000                      | 0.60        | 5.0        | 5.0          |              | EEUFC1V471( )  | 200                 | 500    |
|      | 560             | 10        | 25     | 1440                                                    | 0.045                                          | 3000                      | 0.60        | 5.0        | 5.0          |              | EEUFC1V561( )  | 200                 | 500    |
|      |                 | 12.5      | 20     | 1655                                                    | 0.038                                          | 5000                      | 0.60        | 5.0        | 5.0          |              | EEUFC1V561S( ) | 200                 | 500    |
|      | 680             | 10        | 30     | 1815                                                    | 0.035                                          | 3000                      | 0.60        | 5.0        |              |              | EEUFC1V681L    | 100                 |        |
|      |                 | 12.5      | 20     | 1655                                                    | 0.038                                          | 5000                      | 0.60        | 5.0        | 5.0          |              | EEUFC1V681( )  | 200                 | 500    |
|      |                 | 16        | 15     | 1690                                                    | 0.043                                          | 5000                      | 0.80        | 7.5        | 7.5          |              | EEUFC1V681S( ) | 100                 | 250    |
|      | 820             | 12.5      | 25     | 1945                                                    | 0.030                                          | 5000                      | 0.60        | 5.0        | 5.0          |              | EEUFC1V821L( ) | 200                 | 500    |
|      |                 | 18        | 15     | 2000                                                    | 0.038                                          | 5000                      | 0.80        | 7.5        | 7.5          |              | EEUFC1V821( )  | 100                 | 250    |
|      | 1000            | 12.5      | 25     | 1945                                                    | 0.030                                          | 5000                      | 0.60        | 5.0        | 5.0          |              | EEUFC1V102( )  | 200                 | 500    |
|      |                 | 16        | 20     | 2205                                                    | 0.029                                          | 5000                      | 0.80        | 7.5        | 7.5          |              | EEUFC1V102S( ) | 100                 | 250    |
|      | 1200            | 12.5      | 30     | 2310                                                    | 0.025                                          | 5000                      | 0.80        | 5.0        |              |              | EEUFC1V122L    | 100                 |        |
|      |                 | 16        | 20     | 2205                                                    | 0.029                                          | 5000                      | 0.80        | 7.5        | 7.5          |              | EEUFC1V122( )  | 100                 | 250    |
|      | 1500            | 12.5      | 35     | 2510                                                    | 0.022                                          | 5000                      | 0.80        | 5.0        |              |              | EEUFC1V152L    | 100                 |        |
|      |                 | 16        | 25     | 2555                                                    | 0.022                                          | 5000                      | 0.80        | 7.5        | 7.5          |              | EEUFC1V152( )  | 100                 | 250    |
|      |                 | 18        | 20     | 2490                                                    | 0.028                                          | 5000                      | 0.80        | 7.5        | 7.5          |              | EEUFC1V152S( ) | 100                 | 250    |
|      | 1800            | 12.5      | 40     | 2655                                                    | 0.018                                          | 5000                      | 0.80        | 5.0        |              |              | EEUFC1V182L    | 100                 |        |
|      |                 | 16        | 25     | 2555                                                    | 0.022                                          | 5000                      | 0.80        | 7.5        | 7.5          |              | EEUFC1V182( )  | 100                 | 250    |
|      |                 | 18        | 20     | 2490                                                    | 0.028                                          | 5000                      | 0.80        | 7.5        | 7.5          |              | EEUFC1V182S( ) | 100                 | 250    |
|      | 2200            | 16        | 31.5   | 3010                                                    | 0.018                                          | 5000                      | 0.80        | 7.5        |              |              | EEUFC1V222     | 100                 |        |
|      |                 | 18        | 25     | 2740                                                    | 0.020                                          | 5000                      | 0.80        | 7.5        | 7.5          |              | EEUFC1V222S( ) | 100                 | 250    |
|      | 2700            | 16        | 35.5   | 3150                                                    | 0.016                                          | 5000                      | 0.80        | 7.5        |              |              | EEUFC1V272L    | 100                 |        |
|      |                 | 18        | 31.5   | 3635                                                    | 0.016                                          | 5000                      | 0.80        | 7.5        |              |              | EEUFC1V272     | 50                  |        |
|      | 3300            | 18        | 35.5   | 3680                                                    | 0.015                                          | 5000                      | 0.80        | 7.5        |              |              | EEUFC1V332     | 50                  |        |
|      | 3900            | 18        | 40     | 3735                                                    | 0.014                                          | 5000                      | 0.80        | 7.5        |              |              | EEUFC1V392     | 50                  |        |

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00 Sep. 2010

## ■ Standard Products

| W.V. | Cap.<br>(±20 %) | Case size |        | Specification                                           |                                           |                      | Lead Length |            |              |              | Part No.       | Min. Packaging Q'ty |        |
|------|-----------------|-----------|--------|---------------------------------------------------------|-------------------------------------------|----------------------|-------------|------------|--------------|--------------|----------------|---------------------|--------|
|      |                 | Dia.      | Length | Ripple Current<br>(100 kHz)<br>(+105 °C)<br>(mA r.m.s.) | Impedance<br>(100 kHz)<br>(+20 °C)<br>(Ω) | Endurance<br>(hours) | Lead Dia.   | Lead Space |              |              |                | Straight Leads      | Taping |
|      |                 |           |        |                                                         |                                           |                      |             | Straight   | Taping<br>*B | Taping<br>*H |                |                     |        |
| (V)  | (μF)            | (mm)      | (mm)   | (mA r.m.s.)                                             | (Ω)                                       | (hours)              | (mm)        | (mm)       | (mm)         | (mm)         |                | (pcs)               | (pcs)  |
| 50   | 1.0             | 5         | 11     | 20                                                      | 2.400                                     | 1000                 | 0.50        | 2.0        | 5.0          | 2.5          | EEUFC1H1R0( )  | 200                 | 2000   |
|      | 2.2             | 5         | 11     | 45                                                      | 1.800                                     | 1000                 | 0.50        | 2.0        | 5.0          | 2.5          | EEUFC1H2R2( )  | 200                 | 2000   |
|      | 3.3             | 5         | 11     | 65                                                      | 1.300                                     | 1000                 | 0.50        | 2.0        | 5.0          | 2.5          | EEUFC1H3R3( )  | 200                 | 2000   |
|      | 4.7             | 5         | 11     | 95                                                      | 1.300                                     | 1000                 | 0.50        | 2.0        | 5.0          | 2.5          | EEUFC1H4R7( )  | 200                 | 2000   |
|      | 10              | 4         | 11     | 90                                                      | 2.500                                     | 1000                 | 0.45        | 1.5        | 5.0          | 2.5          | EEUFC1H100( )  | 200                 | 2000   |
|      |                 | 5         | 11     | 125                                                     | 1.300                                     | 1000                 | 0.50        | 2.0        | 5.0          | 2.5          | EEUFC1H100L( ) | 200                 | 2000   |
|      | 12              | 5         | 11     | 135                                                     | 1.300                                     | 1000                 | 0.50        | 2.0        | 5.0          | 2.5          | EEUFC1H120( )  | 200                 | 2000   |
|      | 15              | 5         | 11     | 145                                                     | 1.300                                     | 1000                 | 0.50        | 2.0        | 5.0          | 2.5          | EEUFC1H150( )  | 200                 | 2000   |
|      | 18              | 5         | 11     | 155                                                     | 1.300                                     | 1000                 | 0.50        | 2.0        | 5.0          | 2.5          | EEUFC1H180( )  | 200                 | 2000   |
|      | 22              | 5         | 11     | 155                                                     | 1.300                                     | 1000                 | 0.50        | 2.0        | 5.0          | 2.5          | EEUFC1H220( )  | 200                 | 2000   |
|      | 27              | 5         | 15     | 215                                                     | 0.900                                     | 1000                 | 0.50        | 2.0        | 5.0          | 2.5          | EEUFC1H270( )  | 200                 | 2000   |
|      | 33              | 6.3       | 11.2   | 260                                                     | 0.600                                     | 1000                 | 0.50        | 2.5        | 5.0          | 2.5          | EEUFC1H330( )  | 200                 | 2000   |
|      | 39              | 6.3       | 11.2   | 260                                                     | 0.600                                     | 1000                 | 0.50        | 2.5        | 5.0          | 2.5          | EEUFC1H390( )  | 200                 | 2000   |
|      | 47              | 6.3       | 11.2   | 260                                                     | 0.600                                     | 1000                 | 0.50        | 2.5        | 5.0          | 2.5          | EEUFC1H470( )  | 200                 | 2000   |
|      | 56              | 6.3       | 15     | 360                                                     | 0.400                                     | 1000                 | 0.50        | 2.5        | 5.0          | 2.5          | EEUFC1H560( )  | 200                 | 2000   |
|      | 68              | 8         | 11.5   | 485                                                     | 0.234                                     | 2000                 | 0.60        | 3.5        | 5.0          |              | EEUFC1H680( )  | 200                 | 1000   |
|      | 82              | 8         | 11.5   | 485                                                     | 0.234                                     | 2000                 | 0.60        | 3.5        | 5.0          |              | EEUFC1H820( )  | 200                 | 1000   |
|      | 100             | 10        | 12.5   | 615                                                     | 0.162                                     | 3000                 | 0.60        | 5.0        | 5.0          |              | EEUFC1H101( )  | 200                 | 500    |
|      | 120             | 8         | 15     | 635                                                     | 0.155                                     | 2000                 | 0.60        | 3.5        | 5.0          |              | EEUFC1H121L( ) | 200                 | 1000   |
|      |                 | 10        | 12.5   | 615                                                     | 0.162                                     | 3000                 | 0.60        | 5.0        | 5.0          |              | EEUFC1H121( )  | 200                 | 500    |
|      | 150             | 10        | 16     | 850                                                     | 0.119                                     | 3000                 | 0.60        | 5.0        | 5.0          |              | EEUFC1H151( )  | 200                 | 500    |
|      | 180             | 8         | 20     | 860                                                     | 0.120                                     | 2000                 | 0.60        | 3.5        | 5.0          |              | EEUFC1H181L( ) | 200                 | 1000   |
|      |                 | 10        | 16     | 850                                                     | 0.119                                     | 3000                 | 0.60        | 5.0        | 5.0          |              | EEUFC1H181( )  | 200                 | 500    |
|      | 220             | 10        | 20     | 1030                                                    | 0.090                                     | 3000                 | 0.60        | 5.0        | 5.0          |              | EEUFC1H221( )  | 200                 | 500    |
|      |                 | 12.5      | 15     | 1150                                                    | 0.110                                     | 5000                 | 0.60        | 5.0        | 5.0          |              | EEUFC1H221S( ) | 200                 | 500    |
|      | 270             | 10        | 25     | 1200                                                    | 0.082                                     | 3000                 | 0.60        | 5.0        | 5.0          |              | EEUFC1H271( )  | 200                 | 500    |
|      | 330             | 10        | 30     | 1610                                                    | 0.060                                     | 3000                 | 0.60        | 5.0        |              |              | EEUFC1H331L    | 100                 |        |
|      |                 | 12.5      | 20     | 1480                                                    | 0.063                                     | 5000                 | 0.60        | 5.0        | 5.0          |              | EEUFC1H331( )  | 200                 | 500    |
|      | 390             | 12.5      | 20     | 1480                                                    | 0.063                                     | 5000                 | 0.60        | 5.0        | 5.0          |              | EEUFC1H391( )  | 200                 | 500    |
|      |                 | 16        | 15     | 1610                                                    | 0.080                                     | 5000                 | 0.80        | 7.5        | 7.5          |              | EEUFC1H391S( ) | 100                 | 250    |
|      | 470             | 10        | 30     | 1610                                                    | 0.060                                     | 3000                 | 0.60        | 5.0        |              |              | EEUFC1H471L    | 100                 |        |
|      |                 | 12.5      | 25     | 1832                                                    | 0.050                                     | 5000                 | 0.60        | 5.0        | 5.0          |              | EEUFC1H471( )  | 200                 | 500    |
|      | 560             | 12.5      | 25     | 1832                                                    | 0.050                                     | 5000                 | 0.60        | 5.0        | 5.0          |              | EEUFC1H561( )  | 200                 | 500    |
|      |                 | 18        | 15     | 1900                                                    | 0.068                                     | 5000                 | 0.80        | 7.5        | 7.5          |              | EEUFC1H561S( ) | 100                 | 250    |
|      | 680             | 12.5      | 30     | 2215                                                    | 0.040                                     | 5000                 | 0.80        | 5.0        |              |              | EEUFC1H681L    | 100                 |        |
|      |                 | 16        | 20     | 1835                                                    | 0.048                                     | 5000                 | 0.80        | 7.5        | 7.5          |              | EEUFC1H681( )  | 100                 | 250    |
|      | 820             | 12.5      | 35     | 2285                                                    | 0.034                                     | 5000                 | 0.80        | 5.0        |              |              | EEUFC1H821L    | 100                 |        |
|      |                 | 18        | 20     | 2420                                                    | 0.042                                     | 5000                 | 0.80        | 7.5        | 7.5          |              | EEUFC1H821( )  | 100                 | 250    |
|      | 1000            | 12.5      | 40     | 2590                                                    | 0.030                                     | 5000                 | 0.80        | 5.0        |              |              | EEUFC1H102L    | 100                 |        |
|      |                 | 16        | 25     | 2235                                                    | 0.034                                     | 5000                 | 0.80        | 7.5        | 7.5          |              | EEUFC1H102( )  | 100                 | 250    |
|      | 1200            | 16        | 31.5   | 2700                                                    | 0.028                                     | 5000                 | 0.80        | 7.5        |              |              | EEUFC1H122     | 100                 |        |
|      |                 | 18        | 25     | 2610                                                    | 0.029                                     | 5000                 | 0.80        | 7.5        | 7.5          |              | EEUFC1H122S( ) | 100                 | 250    |
|      | 1500            | 16        | 35.5   | 2790                                                    | 0.025                                     | 5000                 | 0.80        | 7.5        |              |              | EEUFC1H152L    | 100                 |        |
|      | 1800            | 16        | 40     | 2845                                                    | 0.023                                     | 5000                 | 0.80        | 7.5        |              |              | EEUFC1H182L    | 100                 |        |
|      |                 | 18        | 31.5   | 3000                                                    | 0.025                                     | 5000                 | 0.80        | 7.5        |              |              | EEUFC1H182     | 50                  |        |
|      | 2200            | 18        | 35.5   | 3100                                                    | 0.023                                     | 5000                 | 0.80        | 7.5        |              |              | EEUFC1H222     | 50                  |        |

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### ■ Standard Products

| W.V. | Cap.<br>(±20 %) | Case size |        | Specification                                           |                                                |                           | Lead Length          |            |              |              | Part No.       | Min. Packaging Q'ty |        |
|------|-----------------|-----------|--------|---------------------------------------------------------|------------------------------------------------|---------------------------|----------------------|------------|--------------|--------------|----------------|---------------------|--------|
|      |                 | Dia.      | Length | Ripple Current<br>(100 kHz)<br>(+105 °C)<br>(mA r.m.s.) | Imped-<br>ance<br>(100 kHz)<br>(+20 °C)<br>(Ω) | Endur-<br>ance<br>(hours) | Lead<br>Dia.<br>(mm) | Lead Space |              |              |                | Straight<br>Leads   | Taping |
|      |                 |           |        |                                                         |                                                |                           |                      | Straight   | Taping<br>*B | Taping<br>*H |                |                     |        |
| (V)  | (μF)            | (mm)      | (mm)   | (mA r.m.s.)                                             | (Ω)                                            | (hours)                   | (mm)                 | (mm)       | (mm)         | (mm)         |                | (pcs)               | (pcs)  |
| 63   | 6.8             | 4         | 11     | 80                                                      | 3.500                                          | 1000                      | 0.45                 | 1.5        | 5.0          | 2.5          | EEUFC1J6R8( )  | 200                 | 2000   |
|      | 12              | 5         | 11     | 145                                                     | 2.000                                          | 1000                      | 0.50                 | 2.0        | 5.0          | 2.5          | EEUFC1J120( )  | 200                 | 2000   |
|      | 18              | 5         | 15     | 200                                                     | 1.300                                          | 1000                      | 0.50                 | 2.0        | 5.0          | 2.5          | EEUFC1J180( )  | 200                 | 2000   |
|      | 22              | 6.3       | 11.2   | 240                                                     | 1.000                                          | 1000                      | 0.50                 | 2.5        | 5.0          | 2.5          | EEUFC1J220( )  | 200                 | 2000   |
|      | 33              | 6.3       | 11.2   | 240                                                     | 1.000                                          | 1000                      | 0.50                 | 2.5        | 5.0          | 2.5          | EEUFC1J330( )  | 200                 | 2000   |
|      | 39              | 6.3       | 15     | 330                                                     | 0.700                                          | 1000                      | 0.50                 | 2.5        | 5.0          | 2.5          | EEUFC1J390( )  | 200                 | 2000   |
|      | 47              | 8         | 11.5   | 405                                                     | 0.342                                          | 2000                      | 0.60                 | 3.5        | 5.0          |              | EEUFC1J470( )  | 200                 | 1000   |
|      | 56              | 8         | 11.5   | 405                                                     | 0.342                                          | 2000                      | 0.60                 | 3.5        | 5.0          |              | EEUFC1J560( )  | 200                 | 1000   |
|      | 68              | 8         | 11.5   | 405                                                     | 0.342                                          | 2000                      | 0.60                 | 3.5        | 5.0          |              | EEUFC1J680( )  | 200                 | 1000   |
|      | 82              | 10        | 12.5   | 535                                                     | 0.256                                          | 3000                      | 0.60                 | 5.0        | 5.0          |              | EEUFC1J820( )  | 200                 | 500    |
|      | 100             | 8         | 15     | 535                                                     | 0.230                                          | 2000                      | 0.60                 | 3.5        | 5.0          |              | EEUFC1J101L( ) | 200                 | 1000   |
|      |                 | 10        | 12.5   | 535                                                     | 0.256                                          | 3000                      | 0.60                 | 5.0        | 5.0          |              | EEUFC1J101( )  | 200                 | 500    |
|      | 120             | 10        | 16     | 600                                                     | 0.194                                          | 3000                      | 0.60                 | 5.0        | 5.0          |              | EEUFC1J121( )  | 200                 | 500    |
|      | 150             | 8         | 20     | 690                                                     | 0.178                                          | 2000                      | 0.60                 | 3.5        | 5.0          |              | EEUFC1J151( )  | 200                 | 1000   |
|      | 180             | 10        | 20     | 885                                                     | 0.147                                          | 3000                      | 0.60                 | 5.0        | 5.0          |              | EEUFC1J181( )  | 200                 | 500    |
|      |                 | 12.5      | 15     | 1020                                                    | 0.150                                          | 5000                      | 0.60                 | 5.0        | 5.0          |              | EEUFC1J181S( ) | 200                 | 500    |
|      | 220             | 10        | 20     | 885                                                     | 0.147                                          | 3000                      | 0.60                 | 5.0        | 5.0          |              | EEUFC1J221X( ) | 200                 | 500    |
|      |                 | 10        | 25     | 1050                                                    | 0.130                                          | 3000                      | 0.60                 | 5.0        | 5.0          |              | EEUFC1J221( )  | 200                 | 500    |
|      |                 | 12.5      | 20     | 1285                                                    | 0.085                                          | 5000                      | 0.60                 | 5.0        | 5.0          |              | EEUFC1J221S( ) | 200                 | 500    |
|      | 270             | 16        | 15     | 1410                                                    | 0.090                                          | 5000                      | 0.80                 | 7.5        | 7.5          |              | EEUFC1J271( )  | 100                 | 250    |
|      | 330             | 10        | 30     | 1300                                                    | 0.090                                          | 3000                      | 0.60                 | 5.0        |              |              | EEUFC1J331L    | 100                 |        |
|      |                 | 12.5      | 20     | 1285                                                    | 0.085                                          | 5000                      | 0.60                 | 5.0        | 5.0          |              | EEUFC1J331( )  | 200                 | 500    |
|      | 390             | 12.5      | 25     | 1720                                                    | 0.070                                          | 5000                      | 0.60                 | 5.0        | 5.0          |              | EEUFC1J391( )  | 200                 | 500    |
|      |                 | 18        | 15     | 1690                                                    | 0.086                                          | 5000                      | 0.80                 | 7.5        | 7.5          |              | EEUFC1J391S( ) | 100                 | 250    |
|      | 470             | 12.5      | 30     | 2090                                                    | 0.055                                          | 5000                      | 0.80                 | 5.0        |              |              | EEUFC1J471L    | 100                 |        |
|      |                 | 16        | 20     | 1765                                                    | 0.059                                          | 5000                      | 0.80                 | 7.5        | 7.5          |              | EEUFC1J471( )  | 100                 | 250    |
|      | 560             | 16        | 25     | 2160                                                    | 0.050                                          | 5000                      | 0.80                 | 7.5        | 7.5          |              | EEUFC1J561( )  | 100                 | 250    |
|      | 680             | 12.5      | 35     | 2265                                                    | 0.047                                          | 5000                      | 0.80                 | 5.0        |              |              | EEUFC1J681L    | 100                 |        |
|      |                 | 16        | 25     | 2160                                                    | 0.050                                          | 5000                      | 0.80                 | 7.5        | 7.5          |              | EEUFC1J681( )  | 100                 | 250    |
|      |                 | 18        | 20     | 2290                                                    | 0.055                                          | 5000                      | 0.80                 | 7.5        | 7.5          |              | EEUFC1J681S( ) | 100                 | 250    |
|      | 820             | 12.5      | 40     | 2560                                                    | 0.042                                          | 5000                      | 0.80                 | 5.0        |              |              | EEUFC1J821L    | 100                 |        |
|      |                 | 16        | 31.5   | 2670                                                    | 0.043                                          | 5000                      | 0.80                 | 7.5        |              |              | EEUFC1J821     | 100                 |        |
|      |                 | 18        | 25     | 2585                                                    | 0.043                                          | 5000                      | 0.80                 | 7.5        | 7.5          |              | EEUFC1J821S( ) | 100                 | 250    |
|      | 1000            | 16        | 31.5   | 2670                                                    | 0.043                                          | 5000                      | 0.80                 | 7.5        |              |              | EEUFC1J102U    | 100                 |        |
|      |                 | 16        | 35.5   | 2770                                                    | 0.036                                          | 5000                      | 0.80                 | 7.5        |              |              | EEUFC1J102     | 100                 |        |
|      | 1200            | 16        | 40     | 2825                                                    | 0.030                                          | 5000                      | 0.80                 | 7.5        |              |              | EEUFC1J122L    | 100                 |        |
|      |                 | 18        | 31.5   | 2950                                                    | 0.032                                          | 5000                      | 0.80                 | 7.5        |              |              | EEUFC1J122     | 50                  |        |
|      | 1500            | 18        | 35.5   | 3095                                                    | 0.030                                          | 5000                      | 0.80                 | 7.5        |              |              | EEUFC1J152     | 50                  |        |
|      | 1800            | 18        | 40     | 3205                                                    | 0.025                                          | 5000                      | 0.80                 | 7.5        |              |              | EEUFC1J182     | 50                  |        |

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■ Standard Products

| W.V. | Cap.<br>(±20 %) | Case size |        | Specification                                              |                                                |                           | Lead Length          |                  |                      |                      | Part No.       | Min. Packaging Q'ty        |                 |
|------|-----------------|-----------|--------|------------------------------------------------------------|------------------------------------------------|---------------------------|----------------------|------------------|----------------------|----------------------|----------------|----------------------------|-----------------|
|      |                 | Dia.      | Length | Ripple<br>Current<br>(100 kHz)<br>(+105 °C)<br>(mA r.m.s.) | Imped-<br>ance<br>(100 kHz)<br>(+20 °C)<br>(Ω) | Endur-<br>ance<br>(hours) | Lead<br>Dia.<br>(mm) | Lead Space       |                      |                      |                | Straight<br>Leads<br>(pcs) | Taping<br>(pcs) |
|      |                 |           |        |                                                            |                                                |                           |                      | Straight<br>(mm) | Taping<br>*B<br>(mm) | Taping<br>*H<br>(mm) |                |                            |                 |
| (V)  | (μF)            | (mm)      | (mm)   |                                                            |                                                |                           |                      |                  |                      |                      |                |                            |                 |
| 100  | 5.6             | 5         | 11     | 80                                                         | 4.10                                           | 1000                      | 0.5                  | 2.0              | 5.0                  | 2.5                  | EEUFC2A5R6( )  | 200                        | 2000            |
|      | 8.2             | 5         | 15     | 90                                                         | 2.80                                           | 1000                      | 0.5                  | 2.0              | 5.0                  | 2.5                  | EEUFC2A8R2( )  | 200                        | 2000            |
|      | 12              | 6.3       | 11.2   | 114                                                        | 1.80                                           | 1000                      | 0.5                  | 2.5              | 5.0                  | 2.5                  | EEUFC2A120( )  | 200                        | 2000            |
|      | 18              | 6.3       | 15     | 155                                                        | 1.10                                           | 1000                      | 0.5                  | 2.5              | 5.0                  | 2.5                  | EEUFC2A180( )  | 200                        | 2000            |
|      | 22              | 8         | 11.5   | 260                                                        | 0.680                                          | 2000                      | 0.6                  | 3.5              | 5.0                  |                      | EEUFC2A220( )  | 200                        | 1000            |
|      | 33              | 8         | 15     | 340                                                        | 0.450                                          | 2000                      | 0.6                  | 3.5              | 5.0                  |                      | EEUFC2A330L( ) | 200                        | 1000            |
|      |                 | 10        | 12.5   | 306                                                        | 0.530                                          | 3000                      | 0.6                  | 5.0              | 5.0                  |                      | EEUFC2A330( )  | 200                        | 500             |
|      | 39              | 8         | 20     | 455                                                        | 0.330                                          | 2000                      | 0.6                  | 5.0              | 5.0                  |                      | EEUFC2A390L( ) | 200                        | 1000            |
|      |                 | 10        | 16     | 400                                                        | 0.360                                          | 3000                      | 0.6                  | 5.0              | 5.0                  |                      | EEUFC2A390( )  | 200                        | 500             |
|      | 56              | 10        | 20     | 463                                                        | 0.240                                          | 3000                      | 0.6                  | 5.0              | 5.0                  |                      | EEUFC2A560( )  | 200                        | 500             |
|      | 68              | 10        | 25     | 599                                                        | 0.210                                          | 3000                      | 0.6                  | 5.0              | 5.0                  |                      | EEUFC2A680L( ) | 200                        | 500             |
|      |                 | 12.5      | 15     | 511                                                        | 0.230                                          | 5000                      | 0.6                  | 5.0              | 5.0                  |                      | EEUFC2A680( )  | 200                        | 500             |
|      | 100             | 10        | 30     | 698                                                        | 0.150                                          | 3000                      | 0.6                  | 5.0              |                      |                      | EEUFC2A101L    | 100                        |                 |
|      |                 | 12.5      | 20     | 671                                                        | 0.180                                          | 5000                      | 0.6                  | 5.0              | 5.0                  |                      | EEUFC2A101( )  | 200                        | 500             |
|      | 120             | 16        | 15     | 793                                                        | 0.140                                          | 5000                      | 0.8                  | 7.5              | 7.5                  |                      | EEUFC2A121S( ) | 100                        | 250             |
|      | 150             | 12.5      | 25     | 807                                                        | 0.110                                          | 5000                      | 0.6                  | 5.0              | 5.0                  |                      | EEUFC2A151( )  | 200                        | 500             |
|      |                 | 18        | 15     | 917                                                        | 0.120                                          | 5000                      | 0.8                  | 7.5              | 7.5                  |                      | EEUFC2A151S( ) | 100                        | 250             |
|      | 180             | 12.5      | 30     | 937                                                        | 0.098                                          | 5000                      | 0.8                  | 5.0              |                      |                      | EEUFC2A181L    | 100                        |                 |
|      |                 | 16        | 20     | 995                                                        | 0.110                                          | 5000                      | 0.8                  | 7.5              | 7.5                  |                      | EEUFC2A181( )  | 100                        | 250             |
|      | 220             | 12.5      | 35     | 1040                                                       | 0.087                                          | 5000                      | 0.8                  | 5.0              |                      |                      | EEUFC2A221L    | 100                        |                 |
|      |                 | 16        | 25     | 1170                                                       | 0.089                                          | 5000                      | 0.8                  | 7.5              | 7.5                  |                      | EEUFC2A221( )  | 100                        | 250             |
|      | 270             | 12.5      | 40     | 1130                                                       | 0.072                                          | 5000                      | 0.8                  | 5.0              |                      |                      | EEUFC2A271L    | 100                        |                 |
|      |                 | 18        | 20     | 1230                                                       | 0.080                                          | 5000                      | 0.8                  | 7.5              | 7.5                  |                      | EEUFC2A271S( ) | 100                        | 250             |
|      | 330             | 16        | 31.5   | 1520                                                       | 0.062                                          | 5000                      | 0.8                  | 7.5              |                      |                      | EEUFC2A331     | 100                        |                 |
|      |                 | 18        | 25     | 1420                                                       | 0.070                                          | 5000                      | 0.8                  | 7.5              | 7.5                  |                      | EEUFC2A331S( ) | 100                        | 250             |
|      | 390             | 16        | 35.5   | 1730                                                       | 0.053                                          | 5000                      | 0.8                  | 7.5              |                      |                      | EEUFC2A391L    | 100                        |                 |
|      |                 | 18        | 31.5   | 1600                                                       | 0.062                                          | 5000                      | 0.8                  | 7.5              |                      |                      | EEUFC2A391     | 50                         |                 |
|      | 470             | 16        | 40     | 1920                                                       | 0.047                                          | 5000                      | 0.8                  | 7.5              |                      |                      | EEUFC2A471     | 100                        |                 |
|      | 560             | 18        | 35.5   | 1770                                                       | 0.041                                          | 5000                      | 0.8                  | 7.5              |                      |                      | EEUFC2A561     | 50                         |                 |
|      | 680             | 18        | 40     | 2300                                                       | 0.036                                          | 5000                      | 0.8                  | 7.5              |                      |                      | EEUFC2A681     | 50                         |                 |

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