

## Radial Lead Type

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



### Features

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

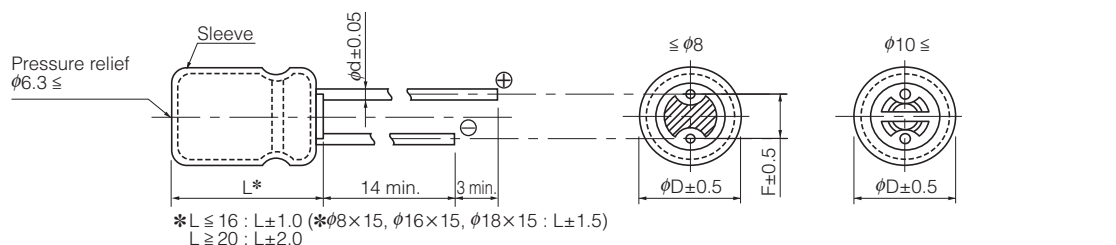
### Specifications

|                               |                                                                                                                                                                                                                                                                                                                                                                                    |                                   |      |      |      |      |      |      |      |                 |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------|------|------|------|------|------|------|-----------------|
| Category temperature range    | -55 °C to +105 °C                                                                                                                                                                                                                                                                                                                                                                  |                                   |      |      |      |      |      |      |      |                 |
| Rated voltage range           | 6.3 V.DC to 100 V.DC                                                                                                                                                                                                                                                                                                                                                               |                                   |      |      |      |      |      |      |      |                 |
| Capacitance range             | 2.2 μF to 15000 μF                                                                                                                                                                                                                                                                                                                                                                 |                                   |      |      |      |      |      |      |      |                 |
| Capacitance tolerance         | ±20 % (120 Hz/+20 °C)                                                                                                                                                                                                                                                                                                                                                              |                                   |      |      |      |      |      |      |      |                 |
| Leakage current               | I ≤ 0.01 CV or 3 (μA) After 2 minutes (Whichever is greater)                                                                                                                                                                                                                                                                                                                       |                                   |      |      |      |      |      |      |      |                 |
| Dissipation factor<br>(tan δ) | V.DC                                                                                                                                                                                                                                                                                                                                                                               | 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 bellow.<br>Duration : ϕ4 to ϕ6.3 : 1000 hours, ϕ8 : 2000 hours , ϕ10 : 3000 hours , ϕ12.5 to ϕ18 : 5000 hours |                                   |      |      |      |      |      |      |      |                 |
|                               | Capacitance change                                                                                                                                                                                                                                                                                                                                                                 | Within ±20 % of the initial value |      |      |      |      |      |      |      |                 |
|                               | tan δ                                                                                                                                                                                                                                                                                                                                                                              | ≤ 200 % of the initial limit      |      |      |      |      |      |      |      |                 |
|                               | DC leakage current                                                                                                                                                                                                                                                                                                                                                                 | Within the initial limit          |      |      |      |      |      |      |      |                 |
| 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)                                                                                                                                                                                        |                                   |      |      |      |      |      |      |      |                 |
| AEC-Q200                      | AEC-Q200 compliant                                                                                                                                                                                                                                                                                                                                                                 |                                   |      |      |      |      |      |      |      |                 |

### Frequency correction factor for ripple current

| Rated voltage (V.DC) | Capacitance (μF) | Frequency (Hz) |      |      |      |       |
|----------------------|------------------|----------------|------|------|------|-------|
|                      |                  | 60             | 120  | 1 k  | 10 k | 100 k |
| 6.3 to 100           | 2.2 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



(Unit : mm)

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

**Case size/ Impedance/ Ripple current**

| Rated voltage<br>(V.DC)     | 6.3 V.DC to 35 V.DC        |        |                                                | 50 V.DC                    |        |                                                | 63 V.DC                    |        |                                                | 100 V.DC                   |        |                                                |
|-----------------------------|----------------------------|--------|------------------------------------------------|----------------------------|--------|------------------------------------------------|----------------------------|--------|------------------------------------------------|----------------------------|--------|------------------------------------------------|
|                             | Impedance<br>(Ω)/(100 kHz) |        | Ripple<br>current<br>(mA r.m.s.)<br>/(100 kHz) | Impedance<br>(Ω)/(100 kHz) |        | Ripple<br>current<br>(mA r.m.s.)<br>/(100 kHz) | Impedance<br>(Ω)/(100 kHz) |        | Ripple<br>current<br>(mA r.m.s.)<br>/(100 kHz) | Impedance<br>(Ω)/(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 |                                                |
| Case size<br>(mm)<br>(φD×L) |                            |        |                                                |                            |        |                                                |                            |        |                                                |                            |        |                                                |
| 4 × 7                       | 2.00                       | 5.00   | 65                                             |                            |        |                                                |                            |        |                                                |                            |        |                                                |
| 5 × 7                       | 0.950                      | 2.40   | 120                                            |                            |        |                                                |                            |        |                                                |                            |        |                                                |
| 6.3 × 7                     | 0.450                      | 1.20   | 200                                            |                            |        |                                                |                            |        |                                                |                            |        |                                                |
| 5 × 11                      | 0.800                      | 1.60   | 175                                            | *                          | *      | *                                              | 2.00                       | 4.00   | 145                                            | 4.10                       | 8.20   | 80                                             |
| 6.3 × 11.2                  | 0.350                      | 0.700  | 290                                            | 0.600                      | 1.20   | 260                                            | 1.00                       | 2.00   | 240                                            | 1.80                       | 3.60   | 114                                            |
| 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                                           |

\*

| Case size (mm)<br>(φD×L) | Capacitance<br>(μF) | Impedance (Ω)/(100 kHz) |        | Ripple current<br>(mA r.m.s.)(100 kHz) |
|--------------------------|---------------------|-------------------------|--------|----------------------------------------|
|                          |                     | 20 °C                   | -10 °C |                                        |
| 5 × 11                   | 2.2                 | 1.80                    | 3.60   | 45                                     |
|                          | 3.3                 | 1.30                    | 2.60   | 65                                     |
|                          | 4.7                 | 1.30                    | 2.60   | 95                                     |
|                          | 10                  | 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                                    |

## Characteristics list

Endurance : 105 °C  $\phi$ 4 to  $\phi$ 6.3=1000 h,  $\phi$ 8=2000 h,  $\phi$ 10=3000 h,  $\phi$ 12.5 to  $\phi$ 18=5000 h

| Rated voltage<br>(V.DC) | Cap.<br>(±20 %)<br>(μF) | Case size (mm) |      | Specification                                           |                                           |                      | Lead length (mm) |            |              |              | Part No.       | Min. Packaging Q'ty     |                 |
|-------------------------|-------------------------|----------------|------|---------------------------------------------------------|-------------------------------------------|----------------------|------------------|------------|--------------|--------------|----------------|-------------------------|-----------------|
|                         |                         | φD             | L    | 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.<br>φd  | Lead space |              |              |                | Straight leads<br>(pcs) | Taping<br>(pcs) |
|                         |                         |                |      |                                                         |                                           |                      |                  | Straight   | Taping<br>*B | Taping<br>*H |                |                         |                 |
| 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            |
|                         | 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            |
|                         | 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            |
|                         | 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.

· Please refer to the page of "Taping dimensions".

# Panasonic Aluminum Electrolytic Capacitors (Radial Lead Type)

## Characteristics list

Endurance : 105 °C  $\phi 4$  to  $\phi 6.3$ =1000 h,  $\phi 8$ =2000 h,  $\phi 10$ =3000 h,  $\phi 12.5$  to  $\phi 18$ =5000 h

| Rated voltage<br>(V.DC) | Cap.<br>(±20 %)<br>(μF) | Case size (mm) |      | Specification                                           |                                           |                      | Lead length (mm) |            |              |              | Part No.       | Min. Packaging Q'ty     |                 |
|-------------------------|-------------------------|----------------|------|---------------------------------------------------------|-------------------------------------------|----------------------|------------------|------------|--------------|--------------|----------------|-------------------------|-----------------|
|                         |                         | φD             | L    | 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.<br>φd  | Lead space |              |              |                | Straight leads<br>(pcs) | Taping<br>(pcs) |
|                         |                         |                |      |                                                         |                                           |                      |                  | Straight   | Taping<br>*B | Taping<br>*H |                |                         |                 |
| 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            |
|                         | 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            |
|                         | 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            |
|                         | 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.

· Please refer to the page of "Taping dimensions".

# Panasonic Aluminum Electrolytic Capacitors (Radial Lead Type)

## Characteristics list

Endurance : 105 °C  $\phi 4$  to  $\phi 6.3$ =1000 h,  $\phi 8$ =2000 h,  $\phi 10$ =3000 h,  $\phi 12.5$  to  $\phi 18$ =5000 h

| Rated voltage<br>(V.DC) | Cap.<br>(±20 %)<br>(μF) | Case size (mm) |      | Specification                                           |                                           |                      | Lead length (mm) |            |              |              | Part No.       | Min. Packaging Q'ty     |                 |
|-------------------------|-------------------------|----------------|------|---------------------------------------------------------|-------------------------------------------|----------------------|------------------|------------|--------------|--------------|----------------|-------------------------|-----------------|
|                         |                         | φD             | L    | 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.<br>φd  | Lead space |              |              |                | Straight leads<br>(pcs) | Taping<br>(pcs) |
|                         |                         |                |      |                                                         |                                           |                      |                  | Straight   | Taping<br>*B | Taping<br>*H |                |                         |                 |
| 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            |
|                         | 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            |
|                         | 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            |
|                         | 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.

· Please refer to the page of "Taping dimensions".

# Panasonic Aluminum Electrolytic Capacitors (Radial Lead Type)

## Characteristics list

Endurance : 105 °C  $\phi 4$  to  $\phi 6.3$ =1000 h,  $\phi 8$ =2000 h,  $\phi 10$ =3000 h,  $\phi 12.5$  to  $\phi 18$ =5000 h

| Rated voltage<br>(V.DC) | Cap.<br>(±20 %)<br>(μF) | Case size (mm) |      | Specification                                           |                                           |                      | Lead length (mm) |            |              |              | Part No.       | Min. Packaging Q'ty     |                 |
|-------------------------|-------------------------|----------------|------|---------------------------------------------------------|-------------------------------------------|----------------------|------------------|------------|--------------|--------------|----------------|-------------------------|-----------------|
|                         |                         | φD             | L    | 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.<br>φd  | Lead space |              |              |                | Straight leads<br>(pcs) | Taping<br>(pcs) |
|                         |                         |                |      |                                                         |                                           |                      |                  | Straight   | Taping<br>*B | Taping<br>*H |                |                         |                 |
| 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            |
|                         | 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            |
|                         | 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            |
|                         | 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.

· Please refer to the page of "Taping dimensions".



## Characteristics list

Endurance : 105 °C  $\phi$ 4 to  $\phi$ 6.3=1000 h,  $\phi$ 8=2000 h,  $\phi$ 10=3000 h,  $\phi$ 12.5 to  $\phi$ 18=5000 h

| Rated voltage<br>(V.DC) | Cap.<br>(±20 %)<br>(μF) | Case size (mm) |      | Specification                                           |                                           |                      | Lead length (mm)   |            |              |              | Part No.       | Min. Packaging Q'ty        |                 |
|-------------------------|-------------------------|----------------|------|---------------------------------------------------------|-------------------------------------------|----------------------|--------------------|------------|--------------|--------------|----------------|----------------------------|-----------------|
|                         |                         | φD             | L    | 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<br>dia.<br>φd | Lead space |              |              |                | Straight<br>leads<br>(pcs) | Taping<br>(pcs) |
|                         |                         |                |      |                                                         |                                           |                      |                    | Straight   | Taping<br>*B | Taping<br>*H |                |                            |                 |
| 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            |
|                         | 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            |
|                         | 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            |
|                         | 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                         |                 |

· 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.

· Please refer to the page of "Taping dimensions".

## Characteristics list

Endurance : 105 °C  $\phi 4$  to  $\phi 6.3$ =1000 h,  $\phi 8$ =2000 h,  $\phi 10$ =3000 h,  $\phi 12.5$  to  $\phi 18$ =5000 h

| Rated voltage<br>(V.DC) | Cap.<br>(±20 %)<br>(μF) | Case size (mm) |      | Specification                                           |                                           |                      | Lead length (mm) |            |              |              | Part No.       | Min. Packaging Q'ty     |                 |
|-------------------------|-------------------------|----------------|------|---------------------------------------------------------|-------------------------------------------|----------------------|------------------|------------|--------------|--------------|----------------|-------------------------|-----------------|
|                         |                         | φD             | L    | 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.<br>φd  | Lead space |              |              |                | Straight leads<br>(pcs) | Taping<br>(pcs) |
|                         |                         |                |      |                                                         |                                           |                      |                  | Straight   | Taping<br>*B | Taping<br>*H |                |                         |                 |
| 50                      | 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                      | 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            |
|                         | 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            |
|                         | 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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· Please refer to the page of "Taping dimensions".



## Characteristics list

Endurance : 105 °C  $\phi 4$  to  $\phi 6.3$ =1000 h,  $\phi 8$ =2000 h,  $\phi 10$ =3000 h,  $\phi 12.5$  to  $\phi 18$ =5000 h

| Rated<br>voltage<br>(V.DC) | Cap.<br>(±20 %)<br>(μF) | Case size (mm) |      | Specification                                             |                                          |                      | Lead length (mm)   |            |              |              | Part No.       | Min. Packaging Q'ty        |                 |
|----------------------------|-------------------------|----------------|------|-----------------------------------------------------------|------------------------------------------|----------------------|--------------------|------------|--------------|--------------|----------------|----------------------------|-----------------|
|                            |                         | φD             | L    | Ripple<br>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<br>dia.<br>φd | Lead space |              |              |                | Straight<br>leads<br>(pcs) | Taping<br>(pcs) |
|                            |                         |                |      |                                                           |                                          |                      |                    | Straight   | Taping<br>*B | Taping<br>*H |                |                            |                 |
| 63                         | 12                      | 5              | 11   | 145                                                       | 2.000                                    | 1000                 | 0.50               | 2.0        | 5.0          | 2.5          | EEUFC1J120( )  | 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            |
|                            | 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                         |                 |

· 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.

· Please refer to the page of "Taping dimensions".

## Characteristics list

Endurance : 105 °C  $\phi$ 4 to  $\phi$ 6.3=1000 h,  $\phi$ 8=2000 h,  $\phi$ 10=3000 h,  $\phi$ 12.5 to  $\phi$ 18=5000 h

| Rated voltage<br>(V.DC) | Cap.<br>(±20 %)<br>(μF) | Case size (mm) |      | Specification                                           |                                           |                      | Lead length (mm) |            |              |              | Part No.       | Min. Packaging Q'ty     |                 |
|-------------------------|-------------------------|----------------|------|---------------------------------------------------------|-------------------------------------------|----------------------|------------------|------------|--------------|--------------|----------------|-------------------------|-----------------|
|                         |                         | φD             | L    | 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.<br>φd  | Lead space |              |              |                | Straight leads<br>(pcs) | Taping<br>(pcs) |
|                         |                         |                |      |                                                         |                                           |                      |                  | Straight   | Taping<br>*B | Taping<br>*H |                |                         |                 |
| 100                     | 5.6                     | 5              | 11   | 80                                                      | 4.10                                      | 1000                 | 0.5              | 2.0        | 5.0          | 2.5          | EEUFC2A5R6( )  | 200                     | 2000            |
|                         | 12                      | 6.3            | 11.2 | 114                                                     | 1.80                                      | 1000                 | 0.5              | 2.5        | 5.0          | 2.5          | EEUFC2A120( )  | 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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