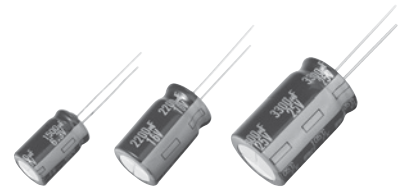


Radial Lead Type

Series : **FK** Type : **A**



Features

- Low impedance (10 % to 30 % less than FC Series)
Miniaturization (30 % to 40 % less than FC Series)
- Endurance : 105 °C 3000 h to 5000 h
- RoHS compliant

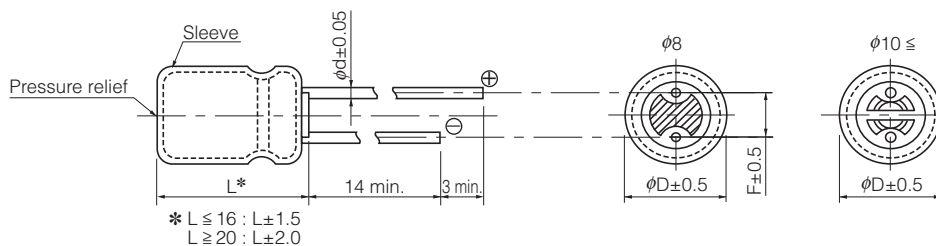
Specifications

| | | | | | | | |
|---|---|-----------------------------------|------|------|------|------|-----------------|
| Category temperature range | -55 °C to +105 °C | | | | | | |
| Rated voltage range | 6.3 V.DC to 35 V.DC | | | | | | |
| Capacitance range | 180 μF to 12000 μF | | | | | | |
| Capacitance tolerance | ±20 % (120 Hz/+20 °C) | | | | | | |
| Leakage current | $I \leq 0.01 CV (\mu A)$ After 2 minutes | | | | | | |
| Dissipation factor (tan δ) | V.DC | 6.3 | 10 | 16 | 25 | 35 | (120 Hz/+20 °C) |
| | tan δ | 0.22 | 0.19 | 0.16 | 0.14 | 0.12 | |
| Add 0.02 per 1000 μF for products of 1000 μF or more. | | | | | | | |
| 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. Duration : φ8: 3000 hours , φ10: 4000 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 35 | 180 to 330 | 0.60 | 0.70 | 0.85 | 0.95 | 1.00 |
| | 390 to 1000 | 0.65 | 0.75 | 0.90 | 0.98 | 1.00 |
| | 1200 to 12000 | 0.75 | 0.80 | 0.95 | 1.00 | 1.00 |

Dimensions



(Unit : mm)

| φD | 8 | 10 | 12.5 | 16 | 18 |
|----|-----|-----|------------|----------|-----|
| L | — | — | 12.5 to 25 | 30 to 40 | — |
| φd | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 |
| F | 3.5 | 5.0 | 5.0 | 5.0 | 7.5 |

Case size/ Impedance/ Ripple current

| Case size (mm) (ϕ D×L) | Impedance (Ω)/(100 kHz) | | Ripple current (mA r.m.s.)/(100 kHz) |
|---------------------------------|-------------------------------------|--------|---|
| | +20 °C | -10 °C | +105 °C |
| 8 × 11.5 | 0.090 | 0.180 | 630 |
| 8 × 15 | 0.062 | 0.124 | 860 |
| 8 × 20 | 0.044 | 0.088 | 1220 |
| 10 × 12.5 | 0.063 | 0.126 | 900 |
| 10 × 16 | 0.049 | 0.098 | 1240 |
| 10 × 20 | 0.035 | 0.070 | 1490 |
| 10 × 25 | 0.033 | 0.066 | 1680 |
| 10 × 30 | 0.025 | 0.050 | 2140 |
| 12.5 × 15 | 0.048 | 0.096 | 1400 |
| 12.5 × 20 | 0.029 | 0.058 | 1890 |
| 12.5 × 25 | 0.022 | 0.044 | 2280 |
| 12.5 × 30 | 0.018 | 0.036 | 2720 |
| 12.5 × 35 | 0.016 | 0.032 | 2940 |
| 12.5 × 40 | 0.014 | 0.028 | 3010 |
| 16 × 15 | 0.038 | 0.076 | 1800 |
| 16 × 20 | 0.026 | 0.052 | 2330 |
| 16 × 25 | 0.019 | 0.038 | 2760 |
| 18 × 15 | 0.036 | 0.072 | 2060 |
| 18 × 20 | 0.025 | 0.050 | 2640 |
| 18 × 25 | 0.018 | 0.036 | 2850 |

Characteristics list

Endurance : 105 °C ϕ 8=3000 h, ϕ 10=4000 h, ϕ 12.5 to ϕ 18=5000 h

| Rated voltage (V.DC) | Cap. ($\pm 20\%$) (μ F) | Case size (mm) | | Specification | | | Lead length (mm) | | | Part No. | Min. Packaging Q'ty | |
|----------------------|--------------------------------|----------------|------|--|---|-------------------|--------------------|------------|-----------|----------------|----------------------|--------------|
| | | ϕ D | L | Ripple current (100 kHz) (+105 °C) (mA r.m.s.) | Impedance (100 kHz) (+20 °C) (Ω) | Endurance (hours) | Lead dia. ϕ d | Lead space | | | Straight leads (pcs) | Taping (pcs) |
| | | | | | | | | Straight | Taping *B | | | |
| 6.3 | 680 | 8 | 11.5 | 630 | 0.090 | 3000 | 0.6 | 3.5 | 5.0 | EEUFK0J681() | 200 | 1000 |
| | 1000 | 8 | 15 | 860 | 0.062 | 3000 | 0.6 | 3.5 | 5.0 | EEUFK0J102L() | 200 | 1000 |
| | | 10 | 12.5 | 900 | 0.063 | 4000 | 0.6 | 5.0 | 5.0 | EEUFK0J102() | 200 | 500 |
| | 1500 | 8 | 20 | 1220 | 0.044 | 3000 | 0.6 | 3.5 | 5.0 | EEUFK0J152L() | 200 | 1000 |
| | | 10 | 16 | 1240 | 0.049 | 4000 | 0.6 | 5.0 | 5.0 | EEUFK0J152() | 200 | 500 |
| | 1800 | 12.5 | 15 | 1400 | 0.048 | 5000 | 0.6 | 5.0 | 5.0 | EEUFK0J182S() | 200 | 500 |
| | 2200 | 10 | 20 | 1490 | 0.035 | 4000 | 0.6 | 5.0 | 5.0 | EEUFK0J222() | 200 | 500 |
| | | 10 | 25 | 1680 | 0.033 | 4000 | 0.6 | 5.0 | 5.0 | EEUFK0J222L() | 200 | 500 |
| | 3300 | 10 | 30 | 2140 | 0.025 | 4000 | 0.6 | 5.0 | | EEUFK0J332L | 100 | |
| | | 12.5 | 20 | 1890 | 0.029 | 5000 | 0.6 | 5.0 | 5.0 | EEUFK0J332() | 200 | 500 |
| | | 16 | 15 | 1800 | 0.038 | 5000 | 0.8 | 7.5 | 7.5 | EEUFK0J332S() | 100 | 250 |
| | 4700 | 12.5 | 25 | 2280 | 0.022 | 5000 | 0.6 | 5.0 | 5.0 | EEUFK0J472() | 200 | 500 |
| | | 18 | 15 | 2060 | 0.036 | 5000 | 0.8 | 7.5 | 7.5 | EEUFK0J472S() | 100 | 250 |
| | 5600 | 12.5 | 30 | 2720 | 0.018 | 5000 | 0.8 | 5.0 | | EEUFK0J562L | 100 | |
| | | 16 | 20 | 2330 | 0.026 | 5000 | 0.8 | 7.5 | 7.5 | EEUFK0J562S() | 100 | 250 |
| | 6800 | 12.5 | 35 | 2940 | 0.016 | 5000 | 0.8 | 5.0 | | EEUFK0J682L | 100 | |
| | 8200 | 12.5 | 40 | 3010 | 0.014 | 5000 | 0.8 | 5.0 | | EEUFK0J822L | 100 | |
| | | 16 | 25 | 2760 | 0.019 | 5000 | 0.8 | 7.5 | 7.5 | EEUFK0J822() | 100 | 250 |
| | | 18 | 20 | 2640 | 0.025 | 5000 | 0.8 | 7.5 | 7.5 | EEUFK0J822S() | 100 | 250 |
| | 12000 | 18 | 25 | 2850 | 0.018 | 5000 | 0.8 | 7.5 | 7.5 | EEUFK0J123S() | 100 | 250 |
| 10 | 560 | 8 | 11.5 | 630 | 0.090 | 3000 | 0.6 | 3.5 | 5.0 | EEUFK1A561() | 200 | 1000 |
| | 820 | 8 | 15 | 860 | 0.062 | 3000 | 0.6 | 3.5 | 5.0 | EEUFK1A821L() | 200 | 1000 |
| | | 10 | 12.5 | 900 | 0.063 | 4000 | 0.6 | 5.0 | 5.0 | EEUFK1A821() | 200 | 500 |
| | 1200 | 8 | 20 | 1220 | 0.044 | 3000 | 0.6 | 3.5 | 5.0 | EEUFK1A122L() | 200 | 1000 |
| | | 10 | 16 | 1240 | 0.049 | 4000 | 0.6 | 5.0 | 5.0 | EEUFK1A122() | 200 | 500 |
| | 1500 | 12.5 | 15 | 1400 | 0.048 | 5000 | 0.6 | 5.0 | 5.0 | EEUFK1A152S() | 200 | 500 |
| | 1800 | 10 | 20 | 1490 | 0.035 | 4000 | 0.6 | 5.0 | 5.0 | EEUFK1A182() | 200 | 500 |
| | | 10 | 25 | 1680 | 0.033 | 4000 | 0.6 | 5.0 | 5.0 | EEUFK1A182L() | 200 | 500 |
| | 2700 | 10 | 30 | 2140 | 0.025 | 4000 | 0.6 | 5.0 | | EEUFK1A272L | 100 | |
| | | 12.5 | 20 | 1890 | 0.029 | 5000 | 0.6 | 5.0 | 5.0 | EEUFK1A272() | 200 | 500 |
| | | 16 | 15 | 1800 | 0.038 | 5000 | 0.8 | 7.5 | 7.5 | EEUFK1A272S() | 100 | 250 |
| | 3900 | 12.5 | 25 | 2280 | 0.022 | 5000 | 0.6 | 5.0 | 5.0 | EEUFK1A392() | 200 | 500 |
| | | 18 | 15 | 2060 | 0.036 | 5000 | 0.8 | 7.5 | 7.5 | EEUFK1A392S() | 100 | 250 |
| | 4700 | 12.5 | 30 | 2720 | 0.018 | 5000 | 0.8 | 5.0 | | EEUFK1A472L | 100 | |
| | | 16 | 20 | 2330 | 0.026 | 5000 | 0.8 | 7.5 | 7.5 | EEUFK1A472S() | 100 | 250 |
| | 5600 | 12.5 | 35 | 2940 | 0.016 | 5000 | 0.8 | 5.0 | | EEUFK1A562L | 100 | |
| | 6800 | 12.5 | 40 | 3010 | 0.014 | 5000 | 0.8 | 5.0 | | EEUFK1A682L | 100 | |
| | | 16 | 25 | 2760 | 0.019 | 5000 | 0.8 | 7.5 | 7.5 | EEUFK1A682() | 100 | 250 |
| | | 18 | 20 | 2640 | 0.025 | 5000 | 0.8 | 7.5 | 7.5 | EEUFK1A682S() | 100 | 250 |
| | 8200 | 18 | 25 | 2850 | 0.018 | 5000 | 0.8 | 7.5 | 7.5 | EEUFK1A822S() | 100 | 250 |

· When requesting taped product, please put the letter "B" between the "()". Lead wire pitch *B=5 mm, 7.5 mm.
 · Please refer to the page of "Taping dimensions".

Characteristics list

Endurance : 105 °C ϕ8=3000 h, ϕ10=4000 h, ϕ12.5 to ϕ18=5000 h

| Rated voltage (V.DC) | Cap. (±20 %) (μF) | Case size (mm) | | Specification | | | Lead length (mm) | | | Part No. | Min. Packaging Q'ty | |
|----------------------|-------------------|----------------|------|--|----------------------------------|-------------------|------------------|------------|----------------|----------------|----------------------|--------------|
| | | ϕD | L | Ripple current (100 kHz) (+105 °C) (mA r.m.s.) | Impedance (100 kHz) (+20 °C) (Ω) | Endurance (hours) | Lead dia. ϕd | Lead space | | | Straight leads (pcs) | Taping (pcs) |
| | | | | | | | | Straight | Taping *B | | | |
| 16 | 390 | 8 | 11.5 | 630 | 0.090 | 3000 | 0.6 | 3.5 | 5.0 | EEUFK1C391() | 200 | 1000 |
| | 680 | 8 | 15 | 860 | 0.062 | 3000 | 0.6 | 3.5 | 5.0 | EEUFK1C681L() | 200 | 1000 |
| | | 10 | 12.5 | 900 | 0.063 | 4000 | 0.6 | 5.0 | 5.0 | EEUFK1C681() | 200 | 500 |
| | 820 | 8 | 20 | 1220 | 0.044 | 3000 | 0.6 | 3.5 | 5.0 | EEUFK1C821L() | 200 | 1000 |
| | 1000 | 10 | 16 | 1240 | 0.049 | 4000 | 0.6 | 5.0 | 5.0 | EEUFK1C102() | 200 | 500 |
| | 1200 | 10 | 20 | 1490 | 0.035 | 4000 | 0.6 | 5.0 | 5.0 | EEUFK1C122() | 200 | 500 |
| | | 12.5 | 15 | 1400 | 0.048 | 5000 | 0.6 | 5.0 | 5.0 | EEUFK1C122S() | 200 | 500 |
| | 1500 | 10 | 25 | 1680 | 0.033 | 4000 | 0.6 | 5.0 | 5.0 | EEUFK1C152L() | 200 | 500 |
| | 2200 | 10 | 30 | 2140 | 0.025 | 4000 | 0.6 | 5.0 | | EEUFK1C222L | 100 | |
| | | 12.5 | 20 | 1890 | 0.029 | 5000 | 0.6 | 5.0 | 5.0 | EEUFK1C222() | 200 | 500 |
| | | 16 | 15 | 1800 | 0.038 | 5000 | 0.8 | 7.5 | 7.5 | EEUFK1C222S() | 100 | 250 |
| | 2700 | 12.5 | 25 | 2280 | 0.022 | 5000 | 0.6 | 5.0 | 5.0 | EEUFK1C272() | 200 | 500 |
| | | 18 | 15 | 2060 | 0.036 | 5000 | 0.8 | 7.5 | 7.5 | EEUFK1C272S() | 100 | 250 |
| | 3300 | 12.5 | 30 | 2720 | 0.018 | 5000 | 0.8 | 5.0 | | EEUFK1C332L | 100 | |
| | 3900 | 12.5 | 35 | 2940 | 0.016 | 5000 | 0.8 | 5.0 | | EEUFK1C392L | 100 | |
| | | 16 | 20 | 2330 | 0.026 | 5000 | 0.8 | 7.5 | 7.5 | EEUFK1C392S() | 100 | 250 |
| | 4700 | 12.5 | 40 | 3010 | 0.014 | 5000 | 0.8 | 5.0 | | EEUFK1C472L | 100 | |
| | | 18 | 20 | 2640 | 0.025 | 5000 | 0.8 | 7.5 | 7.5 | EEUFK1C472S() | 100 | 250 |
| 5600 | 16 | 25 | 2760 | 0.019 | 5000 | 0.8 | 7.5 | 7.5 | EEUFK1C562() | 100 | 250 | |
| 6800 | 18 | 25 | 2850 | 0.018 | 5000 | 0.8 | 7.5 | 7.5 | EEUFK1C682S() | 100 | 250 | |
| 25 | 270 | 8 | 11.5 | 630 | 0.090 | 3000 | 0.6 | 3.5 | 5.0 | EEUFK1E271() | 200 | 1000 |
| | 390 | 8 | 15 | 860 | 0.062 | 3000 | 0.6 | 3.5 | 5.0 | EEUFK1E391L() | 200 | 1000 |
| | 470 | 10 | 12.5 | 900 | 0.063 | 4000 | 0.6 | 5.0 | 5.0 | EEUFK1E471() | 200 | 500 |
| | 560 | 8 | 20 | 1220 | 0.044 | 3000 | 0.6 | 3.5 | 5.0 | EEUFK1E561L() | 200 | 1000 |
| | | 10 | 16 | 1240 | 0.049 | 4000 | 0.6 | 5.0 | 5.0 | EEUFK1E561() | 200 | 500 |
| | 820 | 10 | 20 | 1490 | 0.035 | 4000 | 0.6 | 5.0 | 5.0 | EEUFK1E821() | 200 | 500 |
| | | 12.5 | 15 | 1400 | 0.048 | 5000 | 0.6 | 5.0 | 5.0 | EEUFK1E821S() | 200 | 500 |
| | 1000 | 10 | 25 | 1680 | 0.033 | 4000 | 0.6 | 5.0 | 5.0 | EEUFK1E102L() | 200 | 500 |
| | 1200 | 12.5 | 20 | 1890 | 0.029 | 5000 | 0.6 | 5.0 | 5.0 | EEUFK1E122() | 200 | 500 |
| | 1500 | 10 | 30 | 2140 | 0.025 | 4000 | 0.6 | 5.0 | | EEUFK1E152L | 100 | |
| | | 16 | 15 | 1800 | 0.038 | 5000 | 0.8 | 7.5 | 7.5 | EEUFK1E152S() | 100 | 250 |
| | 1800 | 12.5 | 25 | 2280 | 0.022 | 5000 | 0.6 | 5.0 | 5.0 | EEUFK1E182() | 200 | 500 |
| | | 18 | 15 | 2060 | 0.036 | 5000 | 0.8 | 7.5 | 7.5 | EEUFK1E182S() | 100 | 250 |
| | 2200 | 12.5 | 30 | 2720 | 0.018 | 5000 | 0.8 | 5.0 | | EEUFK1E222L | 100 | |
| | | 16 | 20 | 2330 | 0.026 | 5000 | 0.8 | 7.5 | 7.5 | EEUFK1E222S() | 100 | 250 |
| | 2700 | 12.5 | 35 | 2940 | 0.016 | 5000 | 0.8 | 5.0 | | EEUFK1E272L | 100 | |
| | 3300 | 12.5 | 40 | 3010 | 0.014 | 5000 | 0.8 | 5.0 | | EEUFK1E332L | 100 | |
| | | 16 | 25 | 2760 | 0.019 | 5000 | 0.8 | 7.5 | 7.5 | EEUFK1E332() | 100 | 250 |
| 18 | | 20 | 2640 | 0.025 | 5000 | 0.8 | 7.5 | 7.5 | EEUFK1E332S() | 100 | 250 | |
| 4700 | 18 | 25 | 2850 | 0.018 | 5000 | 0.8 | 7.5 | 7.5 | EEUFK1E472S() | 100 | 250 | |

- When requesting taped product, please put the letter "B" between the "()". Lead wire pitch *B=5 mm, 7.5 mm.
- Please refer to the page of "Taping dimensions".

Characteristics list

Endurance : 105 °C ϕ 8=3000 h, ϕ 10=4000 h, ϕ 12.5 to ϕ 18=5000 h

| Rated voltage (V.DC) | Cap. ($\pm 20\%$) (μ F) | Case size (mm) | | Specification | | | Lead length (mm) | | | Part No. | Min. Packaging Q'ty | |
|----------------------|--------------------------------|----------------|------|--|---|-------------------|--------------------|------------|-----------|----------------|----------------------|--------------|
| | | ϕ D | L | Ripple current (100 kHz) (+105 °C) (mA r.m.s.) | Impedance (100 kHz) (+20 °C) (Ω) | Endurance (hours) | Lead dia. ϕ d | Lead space | | | Straight leads (pcs) | Taping (pcs) |
| | | | | | | | | Straight | Taping *B | | | |
| 35 | 180 | 8 | 11.5 | 630 | 0.090 | 3000 | 0.6 | 3.5 | 5.0 | EEUFK1V181() | 200 | 1000 |
| | 270 | 8 | 15 | 860 | 0.062 | 3000 | 0.6 | 3.5 | 5.0 | EEUFK1V271L() | 200 | 1000 |
| | | 10 | 12.5 | 900 | 0.063 | 4000 | 0.6 | 5.0 | 5.0 | EEUFK1V271() | 200 | 500 |
| | 390 | 8 | 20 | 1220 | 0.044 | 3000 | 0.6 | 3.5 | 5.0 | EEUFK1V391L() | 200 | 1000 |
| | | 10 | 16 | 1240 | 0.049 | 4000 | 0.6 | 5.0 | 5.0 | EEUFK1V391() | 200 | 500 |
| | 560 | 10 | 20 | 1490 | 0.035 | 4000 | 0.6 | 5.0 | 5.0 | EEUFK1V561() | 200 | 500 |
| | | 12.5 | 15 | 1400 | 0.048 | 5000 | 0.6 | 5.0 | 5.0 | EEUFK1V561S() | 200 | 500 |
| | 680 | 10 | 25 | 1680 | 0.033 | 4000 | 0.6 | 5.0 | 5.0 | EEUFK1V681L() | 200 | 500 |
| | 820 | 12.5 | 20 | 1890 | 0.029 | 5000 | 0.6 | 5.0 | 5.0 | EEUFK1V821() | 200 | 500 |
| | 1000 | 10 | 30 | 2140 | 0.025 | 4000 | 0.6 | 5.0 | | EEUFK1V102L | 100 | |
| | | 16 | 15 | 1800 | 0.038 | 5000 | 0.8 | 7.5 | 7.5 | EEUFK1V102S() | 100 | 250 |
| | 1200 | 12.5 | 25 | 2280 | 0.022 | 5000 | 0.6 | 5.0 | 5.0 | EEUFK1V122() | 200 | 500 |
| | | 18 | 15 | 2060 | 0.036 | 5000 | 0.8 | 7.5 | 7.5 | EEUFK1V122S() | 100 | 250 |
| | 1500 | 12.5 | 30 | 2720 | 0.018 | 5000 | 0.8 | 5.0 | | EEUFK1V152L | 100 | |
| | 1800 | 12.5 | 35 | 2940 | 0.016 | 5000 | 0.8 | 5.0 | | EEUFK1V182L | 100 | |
| | | 16 | 20 | 2330 | 0.026 | 5000 | 0.8 | 7.5 | 7.5 | EEUFK1V182S() | 100 | 250 |
| | 2200 | 12.5 | 40 | 3010 | 0.014 | 5000 | 0.8 | 5.0 | | EEUFK1V222L | 100 | |
| | | 16 | 25 | 2760 | 0.019 | 5000 | 0.8 | 7.5 | 7.5 | EEUFK1V222() | 100 | 250 |
| | | 18 | 20 | 2640 | 0.025 | 5000 | 0.8 | 7.5 | 7.5 | EEUFK1V222S() | 100 | 250 |
| | 3300 | 18 | 25 | 2850 | 0.018 | 5000 | 0.8 | 7.5 | 7.5 | EEUFK1V332S() | 100 | 250 |

- When requesting taped product, please put the letter "B" between the "()". Lead wire pitch *B=5 mm, 7.5 mm.
- Please refer to the page of "Taping dimensions".

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