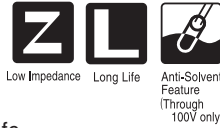
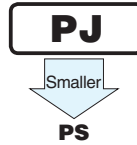


ALUMINUM ELECTROLYTIC CAPACITORS

PJ series Low Impedance, For Switching Power Supplies



- Low impedance and high reliability withstanding 5000 hours load life at +105°C (3000 / 2000 hours for smaller case sizes as specified below).
- Capacitance ranges available based on the numerical values in E12 series under JIS.
- Ideally suited for use of switching power supplies.
- Compliant to the RoHS directive (2011/65/EU).

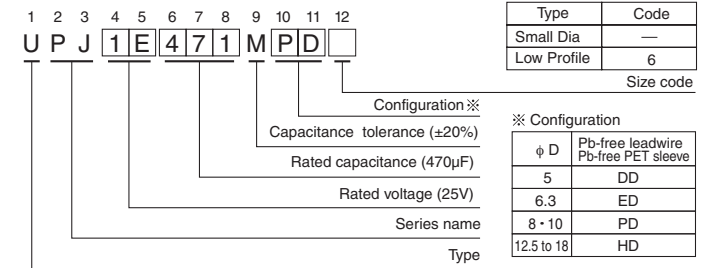
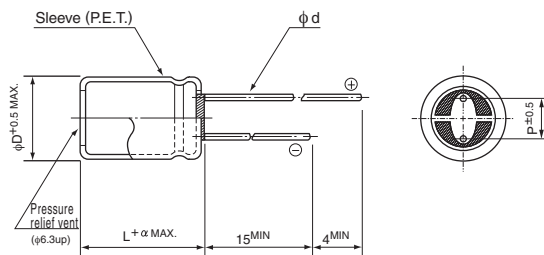


Specifications

| Item | Performance Characteristics | |
|-------------------------------|--|---|
| Category Temperature Range | -55 to +105°C (6.3 to 100V), -40 to +105°C (160 to 400V), -25 to +105°C (450V) | |
| Rated Voltage Range | 6.3 to 450V | |
| Rated Capacitance Range | 0.47 to 15000μF | |
| Capacitance Tolerance | ±20% at 120Hz, 20°C | |
| Leakage Current | Rated Voltage (V) | 6.3 to 100 160 to 450 |
| | Leakage current | After 1 minute's application of rated voltage at 20°C, leakage current is not more than 0.03CV or 4 (μA), whichever is greater. CV ≤ 1000 : I = 0.1CV+40 (μA) max. CV > 1000 : I = 0.04CV+100 (μA) max. |
| Tangent of loss angle (tan δ) | 120Hz, 20°C | |
| | Rated Voltage (V) | 6.3 10 16 25 35 50 63 to 100 160 to 350 400 · 450 |
| Stability at Low Temperature | Impedance ratio (MAX.) | Z-25°C / Z+20°C — — — — — — — — 15 |
| | | Z-40°C / Z+20°C — — — — 4 6 8 10 — |
| | | Z-55°C / Z+20°C 4 3 3 2 — — — — — |
| Endurance | The specifications listed at right shall be met when the capacitors are restored to 20°C after D.C. bias plus rated ripple current is applied for 5000 hours (2000 hours for φD=5 and 6.3, 3000 hours for φD=8) at 105°C, the peak voltage shall not exceed the rated voltage. | |
| | Capacitance change | tan δ |
| Shelf Life | After storing the capacitors under no load at 105°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed above. | |
| | Capacitance change | tan δ |
| Marking | Printed with white color letter on dark brown sleeve. | |

Radial Lead Type

Type numbering system (Example : 25V 470μF)



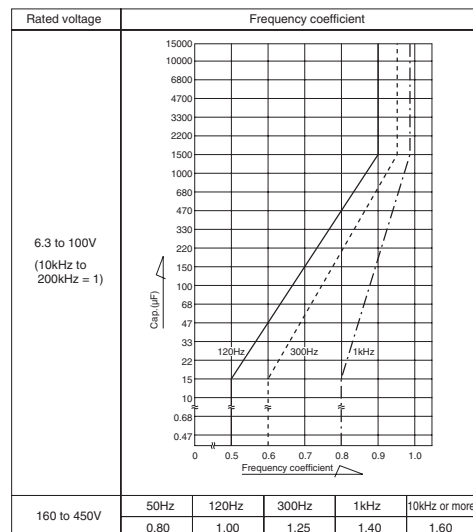
| | |
|---|---------------|
| α | (φD < 10) 1.0 |
| | (φD ≥ 10) 1.5 |

| | (mm) | | | | | | |
|----|------|-----|-----|-----|------|-----|-----|
| φD | 5 | 6.3 | 8 | 10 | 12.5 | 16 | 18 |
| P | 2.0 | 2.5 | 3.5 | 5.0 | 5.0 | 7.5 | 7.5 |
| φd | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 |

※ In case L > 25 for the φ12.5 dia. unit, lead dia. φd = 0.8mm.

- Please refer to page 20 about the end seal configuration.

Frequency coefficient of rated ripple current



Please refer to page 20, 21, 22 about the formed or taped product spec. Please refer to page 4 for the minimum order quantity.

- Dimension table in next pages.



Dimensions

| Cap. (μF) | V (Code) Size code Code | 6.3 (0J) | | 10 (1A) | | 16 (1C) | | 25 (1E) | | 35 (1V) | |
|-----------|-------------------------------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-------------|
| | | — | 6 | — | 6 | — | 6 | — | 6 | — | 6 |
| 22 | 220 | | | | | | | | | 5 × 11 | |
| 27 | 270 | | | | | | | | | 5 × 11 | |
| 33 | 330 | | | | | | | 5 × 11 | | 6.3 × 11 | |
| 39 | 390 | | | | | | | 5 × 11 | | 6.3 × 11 | |
| 47 | 470 | | | | | 5 × 11 | | 6.3 × 11 | | 6.3 × 11 | |
| 56 | 560 | | | | | 5 × 11 | | 6.3 × 11 | | 6.3 × 11 | |
| 68 | 680 | | | 5 × 11 | | 6.3 × 11 | | 6.3 × 11 | | 6.3 × 15 | |
| 82 | 820 | | | 5 × 11 | | 6.3 × 11 | | 6.3 × 11 | | 6.3 × 15 | |
| 100 | 101 | 5 × 11 | | 6.3 × 11 | | 6.3 × 11 | | 6.3 × 15 | | 8 × 11.5 | |
| 120 | 121 | 5 × 11 | | 6.3 × 11 | | 6.3 × 11 | | 6.3 × 15 | | 8 × 15 | 10 × 12.5 |
| 150 | 151 | 6.3 × 11 | | 6.3 × 11 | | 6.3 × 15 | | 8 × 11.5 | | 8 × 15 | 10 × 12.5 |
| 180 | 181 | 6.3 × 11 | | 6.3 × 11 | | 6.3 × 15 | | 8 × 15 | 10 × 12.5 | 8 × 20 | 10 × 15 |
| 220 | 221 | 6.3 × 11 | | 6.3 × 15 | | 8 × 11.5 | | 8 × 15 | 10 × 12.5 | 8 × 20 | 10 × 15 |
| 270 | 271 | 6.3 × 15 | | 6.3 × 15 | | 8 × 15 | 10 × 12.5 | 8 × 20 | 10 × 15 | 10 × 20 | 12.5 × 15 |
| 330 | 331 | 6.3 × 15 | | 8 × 11.5 | | 8 × 15 | 10 × 12.5 | 8 × 20 | 10 × 15 | 10 × 20 | 12.5 × 15 |
| 390 | 391 | 8 × 11.5 | | 8 × 15 | 10 × 12.5 | 8 × 20 | 10 × 15 | 10 × 20 | 12.5 × 15 | 10 × 25 | 12.5 × 15 |
| 470 | 471 | 8 × 15 | 10 × 12.5 | 8 × 15 | 10 × 12.5 | 8 × 20 | 10 × 15 | 10 × 20 | 12.5 × 15 | 10 × 31.5 | 16 × 15 |
| 560 | 561 | 8 × 15 | 10 × 12.5 | 8 × 20 | 10 × 15 | 10 × 20 | 12.5 × 15 | 10 × 25 | 12.5 × 15 | 12.5 × 20 | 16 × 15 |
| 680 | 681 | 8 × 20 | 10 × 15 | 8 × 20 | 10 × 15 | 10 × 20 | 12.5 × 15 | 10 × 31.5 | 16 × 15 | 12.5 × 25 | 18 × 15 |
| 820 | 821 | 8 × 20 | 10 × 15 | 10 × 20 | 12.5 × 15 | 10 × 25 | 12.5 × 15 | 12.5 × 20 | 16 × 15 | 12.5 × 25 | 18 × 15 |
| 1000 | 102 | 10 × 20 | 12.5 × 15 | 10 × 20 | 12.5 × 15 | 10 × 31.5 | 16 × 15 | 12.5 × 25 | 18 × 15 | 12.5 × 31.5 | 16 × 20 |
| 1200 | 122 | 10 × 20 | 12.5 × 15 | 10 × 25 | 12.5 × 15 | 12.5 × 20 | 16 × 15 | 12.5 × 25 | 18 × 15 | 12.5 × 35.5 | 16 × 25 |
| 1500 | 152 | 10 × 25 | 12.5 × 15 | 10 × 31.5 | 16 × 15 | 12.5 × 25 | 18 × 15 | 12.5 × 31.5 | 16 × 20 | 12.5 × 40 | 18 × 20 |
| 1800 | 182 | 10 × 31.5 | 16 × 15 | 12.5 × 20 | 16 × 15 | 12.5 × 31.5 | 16 × 20 | 12.5 × 35.5 | 16 × 25 | 16 × 31.5 | 18 × 25 |
| 2200 | 222 | 10 × 31.5 | 16 × 15 | 12.5 × 25 | 18 × 15 | 12.5 × 31.5 | 16 × 20 | 12.5 × 40 | 18 × 20 | 16 × 35.5 | 18 × 31.5 |
| 2700 | 272 | 12.5 × 25 | 18 × 15 | 12.5 × 31.5 | 16 × 20 | 12.5 × 35.5 | 16 × 25 | 16 × 31.5 | 18 × 25 | 16 × 40 | 18 × 35.5 |
| 3300 | 332 | 12.5 × 25 | 18 × 15 | 12.5 × 35.5 | 16 × 20 | 12.5 × 40 | 18 × 20 | 16 × 35.5 | 18 × 31.5 | 18 × 40 | |
| 3900 | 392 | 12.5 × 31.5 | 16 × 20 | 12.5 × 40 | 18 × 20 | 16 × 31.5 | 18 × 25 | 16 × 40 | 18 × 35.5 | | |
| 4700 | 472 | 12.5 × 35.5 | 18 × 20 | 16 × 31.5 | 18 × 25 | 16 × 35.5 | 18 × 31.5 | 18 × 40 | | | |
| 5600 | 562 | 12.5 × 40 | 18 × 20 | 16 × 35.5 | 18 × 25 | 16 × 40 | 18 × 35.5 | | | | |
| 6800 | 682 | 16 × 31.5 | 18 × 25 | 16 × 35.5 | 18 × 31.5 | 18 × 35.5 | | | | | |
| 8200 | 822 | 16 × 35.5 | 18 × 31.5 | 16 × 40 | 18 × 35.5 | 18 × 40 | | | | | |
| 10000 | 103 | 16 × 40 | 18 × 31.5 | 18 × 40 | | | | | | | |
| 12000 | 123 | 18 × 35.5 | | | | | | | | | |
| 15000 | 153 | 18 × 40 | | | | | | | | | φD × L (mm) |

| Cap. (μF) | V (Code) Size code Code | 50 (1H) | | 63 (1J) | | 80 (1K) | | 100 (2A) | |
|-----------|-------------------------------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-------------|
| | | — | 6 | — | 6 | — | 6 | — | 6 |
| 0.47 | R47 | 5 × 11 | | | | | | 5 × 11 | |
| 0.68 | R68 | 5 × 11 | | | | | | 5 × 11 | |
| 1 | 010 | 5 × 11 | | | | | | 5 × 11 | |
| 1.5 | 1R5 | 5 × 11 | | | | | | 5 × 11 | |
| 2.2 | 2R2 | 5 × 11 | | | | | | 5 × 11 | |
| 3.3 | 3R3 | 5 × 11 | | | | | | 5 × 11 | |
| 4.7 | 4R7 | 5 × 11 | | | | 5 × 11 | | 6.3 × 11 | |
| 6.8 | 6R8 | 5 × 11 | | | | 5 × 11 | | 6.3 × 11 | |
| 10 | 100 | 5 × 11 | | 5 × 11 | | 6.3 × 11 | | 6.3 × 11 | |
| 12 | 120 | 5 × 11 | | 5 × 11 | | 6.3 × 11 | | 6.3 × 11 | |
| 15 | 150 | 5 × 11 | | 6.3 × 11 | | 6.3 × 11 | | 6.3 × 15 | |
| 18 | 180 | 5 × 11 | | 6.3 × 11 | | 6.3 × 11 | | 6.3 × 15 | |
| 22 | 220 | 6.3 × 11 | | 6.3 × 11 | | 6.3 × 15 | | 8 × 11.5 | |
| 27 | 270 | 6.3 × 11 | | 6.3 × 11 | | 6.3 × 15 | | 8 × 15 | 10 × 12.5 |
| 33 | 330 | 6.3 × 11 | | 6.3 × 15 | | 8 × 11.5 | | 8 × 15 | 10 × 12.5 |
| 39 | 390 | 6.3 × 11 | | 6.3 × 15 | | 8 × 15 | 10 × 12.5 | 8 × 20 | 10 × 15 |
| 47 | 470 | 6.3 × 15 | | 8 × 11.5 | | 8 × 15 | 10 × 12.5 | 10 × 20 | 12.5 × 15 |
| 56 | 560 | 6.3 × 15 | | 8 × 15 | 10 × 12.5 | 8 × 20 | 10 × 15 | 10 × 20 | 12.5 × 15 |
| 68 | 680 | 8 × 11.5 | | 8 × 15 | 10 × 12.5 | 10 × 20 | 12.5 × 15 | 10 × 25 | 12.5 × 15 |
| 82 | 820 | 8 × 15 | 10 × 12.5 | 8 × 20 | 10 × 15 | 10 × 20 | 12.5 × 15 | 10 × 31.5 | 16 × 15 |
| 100 | 101 | 8 × 20 | 10 × 15 | 10 × 20 | 12.5 × 15 | 10 × 25 | 12.5 × 15 | 10 × 31.5 | 16 × 15 |
| 120 | 121 | 8 × 20 | 10 × 15 | 10 × 20 | 12.5 × 15 | 10 × 31.5 | 16 × 15 | 12.5 × 25 | 16 × 15 |
| 150 | 151 | 10 × 20 | 12.5 × 15 | 10 × 25 | 12.5 × 15 | 10 × 31.5 | 16 × 15 | 12.5 × 25 | 18 × 15 |
| 180 | 181 | 10 × 20 | 12.5 × 15 | 10 × 31.5 | 16 × 15 | 12.5 × 25 | 16 × 15 | 12.5 × 31.5 | 16 × 20 |
| 220 | 221 | 10 × 25 | 12.5 × 15 | 12.5 × 20 | 16 × 15 | 12.5 × 31.5 | 18 × 15 | 12.5 × 35.5 | 16 × 25 |
| 270 | 271 | 10 × 31.5 | 16 × 15 | 12.5 × 25 | 18 × 15 | 12.5 × 31.5 | 16 × 20 | 12.5 × 40 | 18 × 20 |
| 330 | 331 | 10 × 31.5 | 16 × 15 | 12.5 × 25 | 18 × 15 | 12.5 × 35.5 | 16 × 25 | 16 × 31.5 | 18 × 25 |
| 390 | 391 | 12.5 × 25 | 16 × 15 | 12.5 × 31.5 | 16 × 20 | 12.5 × 40 | 18 × 20 | 16 × 35.5 | 18 × 31.5 |
| 470 | 471 | 12.5 × 25 | 18 × 15 | 12.5 × 35.5 | 16 × 25 | 16 × 31.5 | 18 × 25 | 16 × 40 | 18 × 35.5 |
| 560 | 561 | 12.5 × 31.5 | 16 × 20 | 12.5 × 40 | 18 × 20 | 16 × 35.5 | 18 × 31.5 | 18 × 35.5 | |
| 680 | 681 | 12.5 × 35.5 | 16 × 20 | 16 × 31.5 | 18 × 25 | 16 × 40 | 18 × 31.5 | 18 × 40 | |
| 820 | 821 | 12.5 × 40 | 18 × 20 | 16 × 35.5 | 18 × 31.5 | 18 × 35.5 | | | |
| 1000 | 102 | 16 × 31.5 | 18 × 25 | 16 × 40 | 18 × 35.5 | 18 × 40 | | | |
| 1200 | 122 | 16 × 35.5 | 18 × 31.5 | 18 × 40 | | | | | |
| 1500 | 152 | 16 × 40 | 18 × 31.5 | | | | | | |
| 1800 | 182 | 18 × 35.5 | | | | | | | |
| 2200 | 222 | 18 × 40 | | | | | | | φD × L (mm) |

※ In case of low profile type, [6] will be put at 12th digit of type numbering system.



Standard Ratings

| Cap. (μF) | V (Code) | Size code | Item | 6.3 (0J) | | | | | | | | | |
|-----------|----------|-----------|-------------|-----------------------------|--------------------|----------------|-------------------------|---------------|-----------------------------|--------------------|----------------|-------------------------|---------------|
| | | | | Case size φD × L (mm) | Impedance (Ω) MAX. | | Rated ripple (mA rms) | | Case size φD × L (mm) | Impedance (Ω) MAX. | | Rated ripple (mA rms) | |
| | | | | | 20°C / 100kHz | -10°C / 100kHz | 105°C / 10kHz to 200kHz | 105°C / 120Hz | | 20°C / 100kHz | -10°C / 100kHz | 105°C / 10kHz to 200kHz | 105°C / 120Hz |
| 100 | 101 | | 5 × 11 | 1.40 | 3.50 | 150 | 99 | | | | | | |
| 120 | 121 | | 5 × 11 | 1.10 | 2.80 | 175 | 115 | | | | | | |
| 150 | 151 | | 6.3 × 11 | 0.78 | 2.10 | 225 | 155 | | | | | | |
| 180 | 181 | | 6.3 × 11 | 0.60 | 1.50 | 250 | 175 | | | | | | |
| 220 | 221 | | 6.3 × 11 | 0.48 | 1.20 | 285 | 205 | | | | | | |
| 270 | 271 | | 6.3 × 15 | 0.39 | 1.00 | 370 | 275 | | | | | | |
| 330 | 331 | | 6.3 × 15 | 0.32 | 0.80 | 405 | 310 | | | | | | |
| 390 | 391 | | 8 × 11.5 | 0.27 | 0.68 | 445 | 345 | | | | | | |
| 470 | 471 | | 8 × 15 | 0.22 | 0.55 | 550 | 435 | 10 × 12.5 | 0.23 | 0.58 | 575 | 455 | |
| 560 | 561 | | 8 × 15 | 0.19 | 0.48 | 595 | 480 | 10 × 12.5 | 0.21 | 0.53 | 600 | 485 | |
| 680 | 681 | | 8 × 20 | 0.16 | 0.40 | 730 | 605 | 10 × 15 | 0.18 | 0.45 | 700 | 580 | |
| 820 | 821 | | 8 × 20 | 0.13 | 0.33 | 795 | 670 | 10 × 15 | 0.15 | 0.38 | 750 | 635 | |
| 1000 | 102 | | 10 × 20 | 0.12 | 0.30 | 950 | 820 | 12.5 × 15 | 0.13 | 0.33 | 890 | 765 | |
| 1200 | 122 | | 10 × 20 | 0.10 | 0.25 | 1020 | 895 | 12.5 × 15 | 0.12 | 0.30 | 950 | 835 | |
| 1500 | 152 | | 10 × 25 | 0.084 | 0.21 | 1220 | 1090 | 12.5 × 15 | 0.10 | 0.25 | 1020 | 915 | |
| 1800 | 182 | | 10 × 31.5 | 0.078 | 0.20 | 1370 | 1230 | 16 × 15 | 0.084 | 0.21 | 1270 | 1140 | |
| 2200 | 222 | | 10 × 31.5 | 0.066 | 0.17 | 1470 | 1320 | 16 × 15 | 0.078 | 0.20 | 1340 | 1200 | |
| 2700 | 272 | | 12.5 × 25 | 0.051 | 0.14 | 1590 | 1430 | 18 × 15 | 0.072 | 0.18 | 1500 | 1350 | |
| 3300 | 332 | | 12.5 × 25 | 0.045 | 0.11 | 1710 | 1530 | 18 × 15 | 0.065 | 0.16 | 1600 | 1440 | |
| 3900 | 392 | | 12.5 × 31.5 | 0.037 | 0.093 | 1910 | 1710 | 16 × 20 | 0.056 | 0.14 | 1720 | 1540 | |
| 4700 | 472 | | 12.5 × 35.5 | 0.034 | 0.085 | 2100 | 1890 | 18 × 20 | 0.050 | 0.13 | 1920 | 1720 | |
| 5600 | 562 | | 12.5 × 40 | 0.031 | 0.078 | 2270 | 2040 | 18 × 20 | 0.047 | 0.12 | 1980 | 1780 | |
| 6800 | 682 | | 16 × 31.5 | 0.029 | 0.073 | 2370 | 2130 | 18 × 25 | 0.039 | 0.098 | 2210 | 1980 | |
| 8200 | 822 | | 16 × 35.5 | 0.027 | 0.068 | 2550 | 2290 | 18 × 31.5 | 0.031 | 0.078 | 2390 | 2150 | |
| 10000 | 103 | | 16 × 40 | 0.025 | 0.063 | 2750 | 2470 | 18 × 31.5 | 0.028 | 0.070 | 2490 | 2240 | |
| 12000 | 123 | | 18 × 35.5 | 0.023 | 0.058 | 2820 | 2530 | | | | | | |
| 15000 | 153 | | 18 × 40 | 0.022 | 0.055 | 2960 | 2660 | | | | | | |

| Cap. (μF) | V (Code) | Size code | Item | 10 (1A) | | | | | | | | | |
|-----------|----------|-----------|-------------|-----------------------------|--------------------|----------------|-------------------------|---------------|-----------------------------|--------------------|----------------|-------------------------|---------------|
| | | | | Case size φD × L (mm) | Impedance (Ω) MAX. | | Rated ripple (mA rms) | | Case size φD × L (mm) | Impedance (Ω) MAX. | | Rated ripple (mA rms) | |
| | | | | | 20°C / 100kHz | -10°C / 100kHz | 105°C / 10kHz to 200kHz | 105°C / 120Hz | | 20°C / 100kHz | -10°C / 100kHz | 105°C / 10kHz to 200kHz | 105°C / 120Hz |
| 68 | 680 | | 5 × 11 | 1.30 | 3.30 | 155 | 97 | | | | | | |
| 82 | 820 | | 5 × 11 | 1.10 | 2.80 | 175 | 110 | | | | | | |
| 100 | 101 | | 6.3 × 11 | 0.84 | 2.10 | 210 | 135 | | | | | | |
| 120 | 121 | | 6.3 × 11 | 0.72 | 1.80 | 235 | 160 | | | | | | |
| 150 | 151 | | 6.3 × 11 | 0.55 | 1.40 | 265 | 185 | | | | | | |
| 180 | 181 | | 6.3 × 11 | 0.46 | 1.20 | 290 | 205 | | | | | | |
| 220 | 221 | | 6.3 × 15 | 0.38 | 0.95 | 370 | 270 | | | | | | |
| 270 | 271 | | 6.3 × 15 | 0.31 | 0.78 | 405 | 300 | | | | | | |
| 330 | 331 | | 8 × 11.5 | 0.26 | 0.65 | 460 | 350 | | | | | | |
| 390 | 391 | | 8 × 15 | 0.22 | 0.55 | 550 | 430 | 10 × 12.5 | 0.24 | 0.60 | 555 | 430 | |
| 470 | 471 | | 8 × 15 | 0.19 | 0.48 | 595 | 475 | 10 × 12.5 | 0.21 | 0.53 | 600 | 475 | |
| 560 | 561 | | 8 × 20 | 0.16 | 0.40 | 730 | 590 | 10 × 15 | 0.18 | 0.45 | 700 | 565 | |
| 680 | 681 | | 8 × 20 | 0.13 | 0.33 | 795 | 660 | 10 × 15 | 0.14 | 0.35 | 770 | 635 | |
| 820 | 821 | | 10 × 20 | 0.11 | 0.28 | 985 | 835 | 12.5 × 15 | 0.13 | 0.33 | 920 | 780 | |
| 1000 | 102 | | 10 × 20 | 0.096 | 0.24 | 1060 | 915 | 12.5 × 15 | 0.10 | 0.25 | 1040 | 895 | |
| 1200 | 122 | | 10 × 25 | 0.078 | 0.20 | 1280 | 1120 | 12.5 × 15 | 0.096 | 0.24 | 1060 | 930 | |
| 1500 | 152 | | 10 × 31.5 | 0.072 | 0.18 | 1440 | 1290 | 16 × 15 | 0.078 | 0.20 | 1330 | 1190 | |
| 1800 | 182 | | 12.5 × 20 | 0.057 | 0.14 | 1470 | 1320 | 16 × 15 | 0.072 | 0.18 | 1420 | 1270 | |
| 2200 | 222 | | 12.5 × 25 | 0.045 | 0.11 | 1710 | 1530 | 18 × 15 | 0.060 | 0.15 | 1600 | 1440 | |
| 2700 | 272 | | 12.5 × 31.5 | 0.036 | 0.090 | 1940 | 1740 | 16 × 20 | 0.051 | 0.13 | 1740 | 1560 | |
| 3300 | 332 | | 12.5 × 35.5 | 0.032 | 0.080 | 2180 | 1960 | 16 × 20 | 0.045 | 0.11 | 1850 | 1660 | |
| 3900 | 392 | | 12.5 × 40 | 0.030 | 0.075 | 2360 | 2120 | 18 × 20 | 0.041 | 0.10 | 2050 | 1840 | |
| 4700 | 472 | | 16 × 31.5 | 0.028 | 0.070 | 2420 | 2170 | 18 × 25 | 0.035 | 0.088 | 2250 | 2020 | |
| 5600 | 562 | | 16 × 35.5 | 0.026 | 0.065 | 2610 | 2340 | 18 × 25 | 0.033 | 0.083 | 2340 | 2100 | |
| 6800 | 682 | | 16 × 35.5 | 0.024 | 0.060 | 2680 | 2410 | 18 × 31.5 | 0.027 | 0.068 | 2540 | 2280 | |
| 8200 | 822 | | 16 × 40 | 0.023 | 0.058 | 2820 | 2530 | 18 × 35.5 | 0.025 | 0.063 | 2690 | 2420 | |
| 10000 | 103 | | 18 × 40 | 0.021 | 0.053 | 3040 | 2730 | | | | | | |

※ In case of low profile [6] type, will be put at 12th digit of type numbering system.



Standard Ratings

| Cap. (μF) | V (Code) | Size code | 16 (1C) | | | | | | | | | |
|-----------|----------|-------------|-----------|-----------------------|--------------------|----------------|-------------------------|---------------|--------------------|----------------|-------------------------|---------------|
| | | | Item Code | Case size φD × L (mm) | — | | | | 6 | | | |
| | | | | | Impedance (Ω) MAX. | | Rated ripple (mA rms) | | Impedance (Ω) MAX. | | Rated ripple (mA rms) | |
| | | | | | 20°C / 100kHz | -10°C / 100kHz | 105°C / 10kHz to 200kHz | 105°C / 120Hz | 20°C / 100kHz | -10°C / 100kHz | 105°C / 10kHz to 200kHz | 105°C / 120Hz |
| 47 | 470 | 5 × 11 | 1.30 | 3.30 | 155 | 92 | | | | | | |
| 56 | 560 | 5 × 11 | 1.10 | 2.80 | 175 | 105 | | | | | | |
| 68 | 680 | 6.3 × 11 | 0.78 | 2.00 | 220 | 135 | | | | | | |
| 82 | 820 | 6.3 × 11 | 0.66 | 1.70 | 240 | 155 | | | | | | |
| 100 | 101 | 6.3 × 11 | 0.55 | 1.40 | 265 | 175 | | | | | | |
| 120 | 121 | 6.3 × 11 | 0.45 | 1.10 | 290 | 195 | | | | | | |
| 150 | 151 | 6.3 × 15 | 0.37 | 0.93 | 375 | 260 | | | | | | |
| 180 | 181 | 6.3 × 15 | 0.31 | 0.78 | 405 | 285 | | | | | | |
| 220 | 221 | 8 × 11.5 | 0.26 | 0.65 | 460 | 335 | | | | | | |
| 270 | 271 | 8 × 15 | 0.22 | 0.55 | 550 | 410 | 10 × 12.5 | 0.22 | 0.55 | 575 | 430 | |
| 330 | 331 | 8 × 15 | 0.18 | 0.45 | 595 | 455 | 10 × 12.5 | 0.18 | 0.45 | 625 | 480 | |
| 390 | 391 | 8 × 20 | 0.16 | 0.40 | 730 | 570 | 10 × 15 | 0.16 | 0.40 | 730 | 570 | |
| 470 | 471 | 8 × 20 | 0.14 | 0.35 | 770 | 615 | 10 × 15 | 0.14 | 0.35 | 770 | 615 | |
| 560 | 561 | 10 × 20 | 0.12 | 0.30 | 950 | 770 | 12.5 × 15 | 0.13 | 0.33 | 920 | 745 | |
| 680 | 681 | 10 × 20 | 0.10 | 0.25 | 1020 | 845 | 12.5 × 15 | 0.11 | 0.28 | 985 | 815 | |
| 820 | 821 | 10 × 25 | 0.084 | 0.21 | 1220 | 1030 | 12.5 × 15 | 0.096 | 0.24 | 1060 | 895 | |
| 1000 | 102 | 10 × 31.5 | 0.072 | 0.18 | 1410 | 1210 | 16 × 15 | 0.084 | 0.21 | 1270 | 1090 | |
| 1200 | 122 | 12.5 × 20 | 0.060 | 0.15 | 1430 | 1250 | 16 × 15 | 0.072 | 0.18 | 1390 | 1220 | |
| 1500 | 152 | 12.5 × 25 | 0.048 | 0.12 | 1660 | 1490 | 18 × 15 | 0.066 | 0.17 | 1560 | 1400 | |
| 1800 | 182 | 12.5 × 31.5 | 0.039 | 0.10 | 1880 | 1690 | 16 × 20 | 0.054 | 0.14 | 1700 | 1530 | |
| 2200 | 222 | 12.5 × 31.5 | 0.034 | 0.085 | 2010 | 1800 | 16 × 20 | 0.048 | 0.12 | 1800 | 1620 | |
| 2700 | 272 | 12.5 × 35.5 | 0.031 | 0.078 | 2220 | 1990 | 16 × 25 | 0.040 | 0.10 | 2010 | 1800 | |
| 3300 | 332 | 12.5 × 40 | 0.028 | 0.070 | 2410 | 2160 | 18 × 20 | 0.039 | 0.10 | 2090 | 1880 | |
| 3900 | 392 | 16 × 31.5 | 0.027 | 0.068 | 2470 | 2220 | 18 × 25 | 0.034 | 0.085 | 2290 | 2060 | |
| 4700 | 472 | 16 × 35.5 | 0.025 | 0.063 | 2680 | 2410 | 18 × 31.5 | 0.028 | 0.070 | 2490 | 2240 | |
| 5600 | 562 | 16 × 40 | 0.024 | 0.060 | 2820 | 2530 | 18 × 35.5 | 0.027 | 0.068 | 2620 | 2350 | |
| 6800 | 682 | 18 × 35.5 | 0.022 | 0.055 | 2900 | 2610 | | | | | | |
| 8200 | 822 | 18 × 40 | 0.021 | 0.053 | 3040 | 2730 | | | | | | |

| Cap. (μF) | V (Code) | Size code | 25 (1E) | | | | | | | | | |
|-----------|----------|-------------|-----------|-----------------------|--------------------|----------------|-------------------------|---------------|--------------------|----------------|-------------------------|---------------|
| | | | Item Code | Case size φD × L (mm) | — | | | | 6 | | | |
| | | | | | Impedance (Ω) MAX. | | Rated ripple (mA rms) | | Impedance (Ω) MAX. | | Rated ripple (mA rms) | |
| | | | | | 20°C / 100kHz | -10°C / 100kHz | 105°C / 10kHz to 200kHz | 105°C / 120Hz | 20°C / 100kHz | -10°C / 100kHz | 105°C / 10kHz to 200kHz | 105°C / 120Hz |
| 33 | 330 | 5 × 11 | 1.30 | 3.30 | 155 | 88 | | | | | | |
| 39 | 390 | 5 × 11 | 1.10 | 2.80 | 175 | 100 | | | | | | |
| 47 | 470 | 6.3 × 11 | 0.84 | 2.10 | 210 | 125 | | | | | | |
| 56 | 560 | 6.3 × 11 | 0.72 | 1.80 | 235 | 140 | | | | | | |
| 68 | 680 | 6.3 × 11 | 0.57 | 1.40 | 260 | 160 | | | | | | |
| 82 | 820 | 6.3 × 11 | 0.47 | 1.20 | 285 | 180 | | | | | | |
| 100 | 101 | 6.3 × 15 | 0.39 | 0.98 | 370 | 245 | | | | | | |
| 120 | 121 | 6.3 × 15 | 0.32 | 0.80 | 405 | 275 | | | | | | |
| 150 | 151 | 8 × 11.5 | 0.26 | 0.65 | 460 | 320 | | | | | | |
| 180 | 181 | 8 × 15 | 0.22 | 0.55 | 550 | 390 | 10 × 12.5 | 0.24 | 0.60 | 555 | 395 | |
| 220 | 221 | 8 × 15 | 0.18 | 0.45 | 625 | 455 | 10 × 12.5 | 0.21 | 0.53 | 600 | 435 | |
| 270 | 271 | 8 × 20 | 0.15 | 0.38 | 750 | 560 | 10 × 15 | 0.18 | 0.45 | 700 | 525 | |
| 330 | 331 | 8 × 20 | 0.13 | 0.33 | 795 | 610 | 10 × 15 | 0.15 | 0.38 | 750 | 575 | |
| 390 | 391 | 10 × 20 | 0.11 | 0.28 | 985 | 770 | 12.5 × 15 | 0.13 | 0.33 | 920 | 720 | |
| 470 | 471 | 10 × 20 | 0.10 | 0.25 | 1020 | 810 | 12.5 × 15 | 0.11 | 0.28 | 985 | 785 | |
| 560 | 561 | 10 × 25 | 0.084 | 0.21 | 1220 | 990 | 12.5 × 15 | 0.10 | 0.25 | 1060 | 860 | |
| 680 | 681 | 10 × 31.5 | 0.072 | 0.18 | 1420 | 1180 | 16 × 15 | 0.084 | 0.21 | 1270 | 1050 | |
| 820 | 821 | 12.5 × 20 | 0.059 | 0.15 | 1430 | 1210 | 16 × 15 | 0.079 | 0.20 | 1340 | 1130 | |
| 1000 | 102 | 12.5 × 25 | 0.048 | 0.12 | 1660 | 1430 | 18 × 15 | 0.066 | 0.17 | 1520 | 1310 | |
| 1200 | 122 | 12.5 × 25 | 0.043 | 0.11 | 1760 | 1550 | 18 × 15 | 0.061 | 0.15 | 1600 | 1400 | |
| 1500 | 152 | 12.5 × 31.5 | 0.035 | 0.088 | 1980 | 1780 | 16 × 20 | 0.050 | 0.13 | 1770 | 1590 | |
| 1800 | 182 | 12.5 × 35.5 | 0.032 | 0.080 | 2180 | 1960 | 16 × 25 | 0.041 | 0.10 | 1980 | 1780 | |
| 2200 | 222 | 12.5 × 40 | 0.029 | 0.073 | 2360 | 2120 | 18 × 20 | 0.040 | 0.10 | 2050 | 1840 | |
| 2700 | 272 | 16 × 31.5 | 0.027 | 0.068 | 2470 | 2220 | 18 × 25 | 0.034 | 0.085 | 2290 | 2060 | |
| 3300 | 332 | 16 × 35.5 | 0.025 | 0.063 | 2680 | 2410 | 18 × 31.5 | 0.029 | 0.073 | 2490 | 2240 | |
| 3900 | 392 | 16 × 40 | 0.023 | 0.058 | 2820 | 2530 | 18 × 35.5 | 0.026 | 0.065 | 2690 | 2420 | |
| 4700 | 472 | 18 × 40 | 0.022 | 0.055 | 2960 | 2660 | | | | | | |

※ In case of low profile type, [6] will be put at 12th digit of type numbering system.

ALUMINUM ELECTROLYTIC CAPACITORS



Standard Ratings

| Cap. (μF) | V (Code) | Size code | Item | 35 (1V) | | | | | | | | | |
|-----------|----------|-------------|-------|-----------------------------|--------------------|----------------|-------------------------|---------------|-----------------------------|--------------------|----------------|-------------------------|---------------|
| | | | | — | | | | | 6 | | | | |
| | | | | Case size φD × L (mm) | Impedance (Ω) MAX. | | Rated ripple (mArms) | | Case size φD × L (mm) | Impedance (Ω) MAX. | | Rated ripple (mArms) | |
| | | | | | 20°C / 100kHz | -10°C / 100kHz | 105°C / 10kHz to 200kHz | 105°C / 120Hz | | 20°C / 100kHz | -10°C / 100kHz | 105°C / 10kHz to 200kHz | 105°C / 120Hz |
| 22 | 220 | 5 × 11 | 1.30 | 3.30 | 160 | 85 | | | | | | | |
| 27 | 270 | 5 × 11 | 1.00 | 2.50 | 180 | 99 | | | | | | | |
| 33 | 330 | 6.3 × 11 | 0.78 | 2.00 | 225 | 125 | | | | | | | |
| 39 | 390 | 6.3 × 11 | 0.66 | 1.70 | 245 | 140 | | | | | | | |
| 47 | 470 | 6.3 × 11 | 0.54 | 1.40 | 270 | 160 | | | | | | | |
| 56 | 560 | 6.3 × 11 | 0.45 | 1.10 | 295 | 180 | | | | | | | |
| 68 | 680 | 6.3 × 15 | 0.37 | 0.93 | 370 | 230 | | | | | | | |
| 82 | 820 | 6.3 × 15 | 0.31 | 0.78 | 415 | 265 | | | | | | | |
| 100 | 101 | 8 × 11.5 | 0.26 | 0.65 | 460 | 305 | | | | | | | |
| 120 | 121 | 8 × 15 | 0.22 | 0.55 | 550 | 370 | 10 × 12.5 | 0.24 | 0.60 | 555 | 375 | | |
| 150 | 151 | 8 × 15 | 0.18 | 0.45 | 595 | 415 | 10 × 12.5 | 0.20 | 0.50 | 625 | 435 | | |
| 180 | 181 | 8 × 20 | 0.16 | 0.40 | 730 | 520 | 10 × 15 | 0.18 | 0.45 | 700 | 500 | | |
| 220 | 221 | 8 × 20 | 0.13 | 0.33 | 795 | 580 | 10 × 15 | 0.14 | 0.35 | 770 | 560 | | |
| 270 | 271 | 10 × 20 | 0.11 | 0.28 | 985 | 735 | 12.5 × 15 | 0.13 | 0.33 | 920 | 690 | | |
| 330 | 331 | 10 × 20 | 0.096 | 0.24 | 1060 | 810 | 12.5 × 15 | 0.10 | 0.25 | 1020 | 780 | | |
| 390 | 391 | 10 × 25 | 0.084 | 0.21 | 1220 | 955 | 12.5 × 15 | 0.096 | 0.24 | 1060 | 825 | | |
| 470 | 471 | 10 × 31.5 | 0.072 | 0.18 | 1420 | 1130 | 16 × 15 | 0.084 | 0.21 | 1270 | 1010 | | |
| 560 | 561 | 12.5 × 20 | 0.059 | 0.15 | 1430 | 1160 | 16 × 15 | 0.075 | 0.19 | 1360 | 1100 | | |
| 680 | 681 | 12.5 × 25 | 0.048 | 0.12 | 1660 | 1370 | 18 × 15 | 0.066 | 0.17 | 1540 | 1270 | | |
| 820 | 821 | 12.5 × 25 | 0.042 | 0.11 | 1760 | 1490 | 18 × 15 | 0.060 | 0.15 | 1620 | 1370 | | |
| 1000 | 102 | 12.5 × 31.5 | 0.035 | 0.088 | 1980 | 1710 | 16 × 20 | 0.050 | 0.13 | 1770 | 1530 | | |
| 1200 | 122 | 12.5 × 35.5 | 0.031 | 0.078 | 2180 | 1920 | 16 × 25 | 0.041 | 0.10 | 1980 | 1740 | | |
| 1500 | 152 | 12.5 × 40 | 0.029 | 0.073 | 2360 | 2120 | 18 × 20 | 0.040 | 0.10 | 2050 | 1840 | | |
| 1800 | 182 | 16 × 31.5 | 0.027 | 0.068 | 2470 | 2220 | 18 × 25 | 0.034 | 0.085 | 2290 | 2060 | | |
| 2200 | 222 | 16 × 35.5 | 0.024 | 0.060 | 2680 | 2410 | 18 × 31.5 | 0.028 | 0.070 | 2490 | 2240 | | |
| 2700 | 272 | 16 × 40 | 0.022 | 0.055 | 2900 | 2610 | 18 × 35.5 | 0.026 | 0.065 | 2690 | 2420 | | |
| 3300 | 332 | 18 × 40 | 0.021 | 0.053 | 3040 | 2730 | | | | | | | |

| Cap. (μF) | V (Code) | Size code | Item | 50 (1H) | | | | | | | | | |
|-----------|----------|-------------|-------|-----------------------------|--------------------|----------------|-------------------------|---------------|-----------------------------|--------------------|----------------|-------------------------|---------------|
| | | | | — | | | | | 6 | | | | |
| | | | | Case size φD × L (mm) | Impedance (Ω) MAX. | | Rated ripple (mArms) | | Case size φD × L (mm) | Impedance (Ω) MAX. | | Rated ripple (mArms) | |
| | | | | | 20°C / 100kHz | -10°C / 100kHz | 105°C / 10kHz to 200kHz | 105°C / 120Hz | | 20°C / 100kHz | -10°C / 100kHz | 105°C / 10kHz to 200kHz | 105°C / 120Hz |
| 0.47 | R47 | 5 × 11 | 31.0 | 80.0 | 22 | 11 | | | | | | | |
| 0.68 | R68 | 5 × 11 | 21.0 | 55.0 | 28 | 14 | | | | | | | |
| 1 | 010 | 5 × 11 | 14.0 | 38.0 | 36 | 18 | | | | | | | |
| 1.5 | 1R5 | 5 × 11 | 9.80 | 28.0 | 45 | 22 | | | | | | | |
| 2.2 | 2R2 | 5 × 11 | 6.50 | 18.0 | 54 | 27 | | | | | | | |
| 3.3 | 3R3 | 5 × 11 | 4.60 | 12.0 | 66 | 33 | | | | | | | |
| 4.7 | 4R7 | 5 × 11 | 3.10 | 7.80 | 81 | 40 | | | | | | | |
| 6.8 | 6R8 | 5 × 11 | 2.50 | 6.30 | 91 | 45 | | | | | | | |
| 10 | 100 | 5 × 11 | 2.00 | 5.00 | 115 | 57 | | | | | | | |
| 12 | 120 | 5 × 11 | 1.70 | 4.30 | 125 | 62 | | | | | | | |
| 15 | 150 | 5 × 11 | 1.30 | 3.30 | 145 | 72 | | | | | | | |
| 18 | 180 | 5 × 11 | 1.10 | 2.80 | 155 | 79 | | | | | | | |
| 22 | 220 | 6.3 × 11 | 0.91 | 2.30 | 195 | 100 | | | | | | | |
| 27 | 270 | 6.3 × 11 | 0.74 | 1.90 | 215 | 115 | | | | | | | |
| 33 | 330 | 6.3 × 11 | 0.60 | 1.50 | 240 | 135 | | | | | | | |
| 39 | 390 | 6.3 × 11 | 0.50 | 1.30 | 260 | 150 | | | | | | | |
| 47 | 470 | 6.3 × 15 | 0.42 | 1.10 | 330 | 195 | | | | | | | |
| 56 | 560 | 6.3 × 15 | 0.35 | 0.88 | 360 | 220 | | | | | | | |
| 68 | 680 | 8 × 11.5 | 0.28 | 0.70 | 410 | 255 | | | | | | | |
| 82 | 820 | 8 × 15 | 0.22 | 0.55 | 500 | 320 | 10 × 12.5 | 0.23 | 0.58 | 510 | 330 | | |
| 100 | 101 | 8 × 20 | 0.18 | 0.45 | 620 | 410 | 10 × 15 | 0.21 | 0.53 | 580 | 385 | | |
| 120 | 121 | 8 × 20 | 0.16 | 0.40 | 670 | 455 | 10 × 15 | 0.17 | 0.43 | 640 | 435 | | |
| 150 | 151 | 10 × 20 | 0.13 | 0.33 | 820 | 570 | 12.5 × 15 | 0.14 | 0.35 | 785 | 545 | | |
| 180 | 181 | 10 × 20 | 0.11 | 0.28 | 890 | 635 | 12.5 × 15 | 0.12 | 0.31 | 845 | 605 | | |
| 220 | 221 | 10 × 25 | 0.098 | 0.25 | 1040 | 760 | 12.5 × 15 | 0.10 | 0.25 | 920 | 670 | | |
| 270 | 271 | 10 × 31.5 | 0.085 | 0.21 | 1200 | 900 | 16 × 15 | 0.091 | 0.23 | 1120 | 840 | | |
| 330 | 331 | 10 × 31.5 | 0.072 | 0.18 | 1300 | 995 | 16 × 15 | 0.078 | 0.20 | 1210 | 925 | | |
| 390 | 391 | 12.5 × 25 | 0.053 | 0.13 | 1440 | 1120 | 16 × 15 | 0.072 | 0.18 | 1270 | 990 | | |
| 470 | 471 | 12.5 × 25 | 0.048 | 0.12 | 1500 | 1190 | 18 × 15 | 0.060 | 0.15 | 1470 | 1170 | | |
| 560 | 561 | 12.5 × 31.5 | 0.040 | 0.10 | 1680 | 1360 | 16 × 20 | 0.053 | 0.13 | 1550 | 1260 | | |
| 680 | 681 | 12.5 × 35.5 | 0.036 | 0.090 | 1850 | 1530 | 16 × 20 | 0.048 | 0.12 | 1630 | 1350 | | |
| 820 | 821 | 12.5 × 40 | 0.033 | 0.083 | 2010 | 1700 | 18 × 20 | 0.043 | 0.11 | 1810 | 1530 | | |
| 1000 | 102 | 16 × 31.5 | 0.030 | 0.075 | 2120 | 1830 | 18 × 25 | 0.036 | 0.090 | 2000 | 1730 | | |
| 1200 | 122 | 16 × 35.5 | 0.028 | 0.070 | 2260 | 1990 | 18 × 31.5 | 0.031 | 0.078 | 2140 | 1880 | | |
| 1500 | 152 | 16 × 40 | 0.026 | 0.065 | 2410 | 2170 | 18 × 31.5 | 0.029 | 0.073 | 2220 | 1990 | | |
| 1800 | 182 | 18 × 35.5 | 0.025 | 0.063 | 2460 | 2210 | | | | | | | |
| 2200 | 222 | 18 × 40 | 0.024 | 0.060 | 2560 | 2300 | | | | | | | |

※ In case of low profile type, [6] will be put at 12th digit of type numbering system.



Standard Ratings

| Cap. (μF) | V (Code) | Size code | Item | 63 (1J) | | | | | | | | | |
|-----------|----------|-------------|-------|-----------------------------|--------------------|----------------|----------------------------|---------------|-----------------------------|--------------------|----------------|----------------------------|---------------|
| | | | | — | | | | | | 6 | | | |
| | | | | Case size φD × L (mm) | Impedance (Ω) MAX. | | Rated ripple (mArms) | | Case size φD × L (mm) | Impedance (Ω) MAX. | | Rated ripple (mArms) | |
| | | | | | 20°C / 100kHz | -10°C / 100kHz | 105°C / 10kHz to 200kHz | 105°C / 120Hz | | 20°C / 100kHz | -10°C / 100kHz | 105°C / 10kHz to 200kHz | 105°C / 120Hz |
| 10 | 100 | 5 × 11 | 1.60 | 4.00 | 135 | 67 | | | | | | | |
| 12 | 120 | 5 × 11 | 1.40 | 3.50 | 145 | 72 | | | | | | | |
| 15 | 150 | 6.3 × 11 | 1.10 | 2.80 | 185 | 92 | | | | | | | |
| 18 | 180 | 6.3 × 11 | 0.95 | 2.40 | 195 | 100 | | | | | | | |
| 22 | 220 | 6.3 × 11 | 0.78 | 2.00 | 215 | 110 | | | | | | | |
| 27 | 270 | 6.3 × 11 | 0.64 | 1.60 | 240 | 130 | | | | | | | |
| 33 | 330 | 6.3 × 15 | 0.52 | 1.30 | 305 | 170 | | | | | | | |
| 39 | 390 | 6.3 × 15 | 0.45 | 1.10 | 330 | 190 | | | | | | | |
| 47 | 470 | 8 × 11.5 | 0.37 | 0.93 | 365 | 215 | | | | | | | |
| 56 | 560 | 8 × 15 | 0.31 | 0.78 | 450 | 275 | 10 × 12.5 | 0.34 | 0.85 | 450 | 275 | | |
| 68 | 680 | 8 × 15 | 0.26 | 0.65 | 500 | 315 | 10 × 12.5 | 0.28 | 0.70 | 495 | 310 | | |
| 82 | 820 | 8 × 20 | 0.22 | 0.55 | 600 | 385 | 10 × 15 | 0.24 | 0.60 | 580 | 375 | | |
| 100 | 101 | 10 × 20 | 0.18 | 0.45 | 750 | 495 | 12.5 × 15 | 0.20 | 0.50 | 695 | 460 | | |
| 120 | 121 | 10 × 20 | 0.15 | 0.38 | 820 | 555 | 12.5 × 15 | 0.18 | 0.45 | 750 | 510 | | |
| 150 | 151 | 10 × 25 | 0.13 | 0.33 | 950 | 665 | 12.5 × 15 | 0.14 | 0.35 | 845 | 590 | | |
| 180 | 181 | 10 × 31.5 | 0.11 | 0.28 | 1110 | 790 | 16 × 15 | 0.12 | 0.30 | 1050 | 750 | | |
| 220 | 221 | 12.5 × 20 | 0.094 | 0.24 | 1140 | 835 | 16 × 15 | 0.10 | 0.25 | 1120 | 820 | | |
| 270 | 271 | 12.5 × 25 | 0.081 | 0.20 | 1340 | 1000 | 18 × 15 | 0.088 | 0.22 | 1290 | 965 | | |
| 330 | 331 | 12.5 × 25 | 0.072 | 0.18 | 1420 | 1090 | 18 × 15 | 0.078 | 0.20 | 1410 | 1080 | | |
| 390 | 391 | 12.5 × 31.5 | 0.059 | 0.15 | 1620 | 1260 | 16 × 20 | 0.070 | 0.18 | 1500 | 1170 | | |
| 470 | 471 | 12.5 × 35.5 | 0.052 | 0.13 | 1780 | 1420 | 16 × 25 | 0.063 | 0.16 | 1700 | 1350 | | |
| 560 | 561 | 12.5 × 40 | 0.047 | 0.12 | 1950 | 1580 | 18 × 20 | 0.058 | 0.15 | 1730 | 1400 | | |
| 680 | 681 | 16 × 31.5 | 0.043 | 0.11 | 2050 | 1700 | 18 × 25 | 0.051 | 0.13 | 1940 | 1610 | | |
| 820 | 821 | 16 × 35.5 | 0.040 | 0.10 | 2220 | 1880 | 18 × 31.5 | 0.043 | 0.12 | 2110 | 1780 | | |
| 1000 | 102 | 16 × 40 | 0.037 | 0.093 | 2370 | 2050 | 18 × 35.5 | 0.040 | 0.10 | 2280 | 1970 | | |
| 1200 | 122 | 18 × 40 | 0.034 | 0.085 | 2510 | 2210 | | | | | | | |

| Cap. (μF) | V (Code) | Size code | Item | 80 (1K) | | | | | | | | | |
|-----------|----------|-------------|-------|-----------------------------|--------------------|----------------|----------------------------|---------------|-----------------------------|--------------------|----------------|----------------------------|---------------|
| | | | | — | | | | | | 6 | | | |
| | | | | Case size φD × L (mm) | Impedance (Ω) MAX. | | Rated ripple (mArms) | | Case size φD × L (mm) | Impedance (Ω) MAX. | | Rated ripple (mArms) | |
| | | | | | 20°C / 100kHz | -10°C / 100kHz | 105°C / 10kHz to 200kHz | 105°C / 120Hz | | 20°C / 100kHz | -10°C / 100kHz | 105°C / 10kHz to 200kHz | 105°C / 120Hz |
| 4.7 | 4R7 | 5 × 11 | 4.20 | 11.00 | 53 | 26 | | | | | | | |
| 6.8 | 6R8 | 5 × 11 | 2.60 | 7.00 | 68 | 34 | | | | | | | |
| 10 | 100 | 6.3 × 11 | 1.70 | 4.60 | 87 | 43 | | | | | | | |
| 12 | 120 | 6.3 × 11 | 1.40 | 3.80 | 96 | 48 | | | | | | | |
| 15 | 150 | 6.3 × 11 | 1.20 | 3.20 | 104 | 52 | | | | | | | |
| 18 | 180 | 6.3 × 11 | 1.00 | 2.70 | 114 | 58 | | | | | | | |
| 22 | 220 | 6.3 × 15 | 0.77 | 2.10 | 135 | 71 | | | | | | | |
| 27 | 270 | 6.3 × 15 | 0.63 | 1.70 | 149 | 80 | | | | | | | |
| 33 | 330 | 8 × 11.5 | 0.53 | 1.40 | 234 | 132 | | | | | | | |
| 39 | 390 | 8 × 15 | 0.46 | 1.20 | 272 | 156 | 10 × 12.5 | 0.49 | 1.30 | 271 | 155 | | |
| 47 | 470 | 8 × 15 | 0.39 | 1.10 | 295 | 175 | 10 × 12.5 | 0.42 | 1.10 | 293 | 174 | | |
| 56 | 560 | 8 × 20 | 0.34 | 0.92 | 347 | 208 | 10 × 15 | 0.36 | 0.97 | 337 | 202 | | |
| 68 | 680 | 10 × 20 | 0.28 | 0.76 | 426 | 264 | 12.5 × 15 | 0.31 | 0.84 | 402 | 249 | | |
| 82 | 820 | 10 × 20 | 0.25 | 0.68 | 447 | 284 | 12.5 × 15 | 0.27 | 0.73 | 430 | 273 | | |
| 100 | 101 | 10 × 25 | 0.21 | 0.57 | 526 | 347 | 12.5 × 15 | 0.23 | 0.62 | 466 | 308 | | |
| 120 | 121 | 10 × 31.5 | 0.18 | 0.49 | 606 | 406 | 16 × 15 | 0.20 | 0.54 | 663 | 444 | | |
| 150 | 151 | 10 × 31.5 | 0.15 | 0.41 | 663 | 459 | 16 × 15 | 0.18 | 0.47 | 699 | 484 | | |
| 180 | 181 | 12.5 × 25 | 0.13 | 0.35 | 734 | 520 | 16 × 15 | 0.15 | 0.41 | 766 | 543 | | |
| 220 | 221 | 12.5 × 31.5 | 0.12 | 0.32 | 816 | 595 | 18 × 15 | 0.13 | 0.35 | 881 | 643 | | |
| 270 | 271 | 12.5 × 31.5 | 0.10 | 0.27 | 894 | 667 | 16 × 20 | 0.11 | 0.30 | 995 | 742 | | |
| 330 | 331 | 12.5 × 35.5 | 0.088 | 0.24 | 1000 | 767 | 16 × 25 | 0.099 | 0.27 | 1140 | 874 | | |
| 390 | 391 | 12.5 × 40 | 0.078 | 0.21 | 1060 | 822 | 18 × 20 | 0.089 | 0.24 | 1170 | 908 | | |
| 470 | 471 | 16 × 31.5 | 0.069 | 0.19 | 1450 | 1150 | 18 × 25 | 0.080 | 0.22 | 1330 | 1060 | | |
| 560 | 561 | 16 × 35.5 | 0.062 | 0.17 | 1600 | 1300 | 18 × 31.5 | 0.072 | 0.19 | 1490 | 1210 | | |
| 680 | 681 | 16 × 40 | 0.055 | 0.15 | 1770 | 1470 | 18 × 31.5 | 0.065 | 0.18 | 1560 | 1300 | | |
| 820 | 821 | 18 × 35.5 | 0.049 | 0.13 | 1890 | 1590 | | | | | | | |
| 1000 | 102 | 18 × 40 | 0.044 | 0.12 | 2080 | 1790 | | | | | | | |

※ In case of low profile type, [6] will be put at 12th digit of type numbering system.



Standard Ratings

| Cap. (μF) | V (Code) | Size code | 100 (2A) | | | | | | | | | | |
|-----------|----------|-------------|----------|-----------------------------|--------------------|----------------|----------------------------|---------------|-----------------------------|--------------------|----------------|----------------------------|---------------|
| | | | Item | — | | | | | | 6 | | | |
| | | | | Case size φD × L (mm) | Impedance (Ω) MAX. | | Rated ripple (mArms) | | Case size φD × L (mm) | Impedance (Ω) MAX. | | Rated ripple (mArms) | |
| | | | | | 20°C / 100kHz | -10°C / 100kHz | 105°C / 10kHz to 200kHz | 105°C / 120Hz | | 20°C / 100kHz | -10°C / 100kHz | 105°C / 10kHz to 200kHz | 105°C / 120Hz |
| 0.47 | R47 | 5 × 11 | 43.0 | 116.0 | 17 | 8 | | | | | | | |
| 0.68 | R68 | 5 × 11 | 23.0 | 62.0 | 23 | 11 | | | | | | | |
| 1 | 010 | 5 × 11 | 17.0 | 46.0 | 27 | 13 | | | | | | | |
| 1.5 | 1R5 | 5 × 11 | 10.0 | 27.0 | 35 | 17 | | | | | | | |
| 2.2 | 2R2 | 5 × 11 | 6.60 | 18.0 | 43 | 21 | | | | | | | |
| 3.3 | 3R3 | 5 × 11 | 4.10 | 11.0 | 54 | 27 | | | | | | | |
| 4.7 | 4R7 | 6.3 × 11 | 2.80 | 7.60 | 68 | 34 | | | | | | | |
| 6.8 | 6R8 | 6.3 × 11 | 1.90 | 5.10 | 83 | 41 | | | | | | | |
| 10 | 100 | 6.3 × 11 | 1.20 | 3.20 | 104 | 52 | | | | | | | |
| 12 | 120 | 6.3 × 11 | 1.00 | 2.70 | 114 | 57 | | | | | | | |
| 15 | 150 | 6.3 × 15 | 0.81 | 2.20 | 131 | 65 | | | | | | | |
| 18 | 180 | 6.3 × 15 | 0.67 | 1.80 | 155 | 80 | | | | | | | |
| 22 | 220 | 8 × 11.5 | 0.55 | 1.50 | 230 | 122 | | | | | | | |
| 27 | 270 | 8 × 15 | 0.47 | 1.30 | 269 | 146 | 10 × 12.5 | 0.50 | 1.40 | 268 | 145 | | |
| 33 | 330 | 8 × 15 | 0.38 | 1.00 | 299 | 169 | 10 × 12.5 | 0.42 | 1.10 | 293 | 166 | | |
| 39 | 390 | 8 × 20 | 0.33 | 0.89 | 352 | 202 | 10 × 15 | 0.36 | 0.97 | 337 | 193 | | |
| 47 | 470 | 10 × 20 | 0.28 | 0.76 | 423 | 252 | 12.5 × 15 | 0.31 | 0.84 | 402 | 239 | | |
| 56 | 560 | 10 × 20 | 0.24 | 0.65 | 456 | 274 | 12.5 × 15 | 0.27 | 0.73 | 430 | 258 | | |
| 68 | 680 | 10 × 25 | 0.21 | 0.57 | 526 | 326 | 12.5 × 15 | 0.23 | 0.62 | 466 | 289 | | |
| 82 | 820 | 10 × 31.5 | 0.18 | 0.49 | 606 | 386 | 16 × 15 | 0.19 | 0.51 | 681 | 433 | | |
| 100 | 101 | 10 × 31.5 | 0.15 | 0.41 | 663 | 438 | 16 × 15 | 0.17 | 0.46 | 719 | 475 | | |
| 120 | 121 | 12.5 × 25 | 0.13 | 0.35 | 774 | 519 | 16 × 15 | 0.14 | 0.38 | 793 | 531 | | |
| 150 | 151 | 12.5 × 25 | 0.11 | 0.30 | 798 | 553 | 18 × 15 | 0.12 | 0.32 | 917 | 635 | | |
| 180 | 181 | 12.5 × 31.5 | 0.098 | 0.26 | 904 | 641 | 16 × 20 | 0.11 | 0.30 | 995 | 706 | | |
| 220 | 221 | 12.5 × 35.5 | 0.087 | 0.23 | 1000 | 730 | 16 × 25 | 0.093 | 0.25 | 1170 | 854 | | |
| 270 | 271 | 12.5 × 40 | 0.072 | 0.19 | 1130 | 843 | 18 × 20 | 0.080 | 0.22 | 1230 | 918 | | |
| 330 | 331 | 16 × 31.5 | 0.062 | 0.17 | 1520 | 1160 | 18 × 25 | 0.070 | 0.19 | 1420 | 1080 | | |
| 390 | 391 | 16 × 35.5 | 0.053 | 0.14 | 1730 | 1340 | 18 × 31.5 | 0.062 | 0.17 | 1600 | 1240 | | |
| 470 | 471 | 16 × 40 | 0.047 | 0.13 | 1920 | 1530 | 18 × 35.5 | 0.056 | 0.15 | 1770 | 1410 | | |
| 560 | 561 | 18 × 35.5 | 0.041 | 0.11 | 2070 | 1680 | | | | | | | |
| 680 | 681 | 18 × 40 | 0.036 | 0.097 | 2300 | 1910 | | | | | | | |

※ In case of low profile type, [6] will be put at 12th digit of type numbering system.

| Cap. (μF) | V Code | 160 | | 200 | | 250 | | 315 | | 350 | | 400 | | 450 | |
|-----------|--------|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|---------------|
| | | 2C | 19 | 2D | 19 | 2E | 19 | 2F | 19 | 2V | 21 | 2G | 17 | 2W | 17 |
| 1 | 010 | 8 × 11.5 | 19 | 8 × 11.5 | 19 | 8 × 11.5 | 19 | 8 × 11.5 | 19 | 10 × 12.5 | 21 | 10 × 12.5 | 17 | 10 × 15 | 17 |
| 2.2 | 2R2 | 8 × 11.5 | 30 | 8 × 11.5 | 30 | 10 × 12.5 | 32 | 10 × 12.5 | 32 | 10 × 15 | 34 | 10 × 15 | 28 | 10 × 20 | 28 |
| 3.3 | 3R3 | 10 × 12.5 | 50 | 10 × 12.5 | 50 | 10 × 15 | 52 | 10 × 15 | 52 | 10 × 20 | 54 | 10 × 20 | 47 | 12.5 × 20 | 48 |
| 4.7 | 4R7 | 10 × 12.5 | 57 | 10 × 15 | 60 | 10 × 15 | 60 | 10 × 20 | 65 | 10 × 20 | 65 | 12.5 × 20 | 55 | 12.5 × 25 | 55 |
| 10 | 100 | 10 × 15 | 90 | 10 × 20 | 95 | 12.5 × 20 | 98 | 12.5 × 20 | 98 | 12.5 × 25 | 100 | 12.5 × 25 | 85 | 16 × 25 | 90 |
| 22 | 220 | 12.5 × 20 | 140 | 12.5 × 25 | 145 | 16 × 25 | 150 | 16 × 25 | 150 | 16 × 25 | 150 | 16 × 31.5 | 130 | 16 × 35.5 | 135 |
| 33 | 330 | 12.5 × 25 | 175 | 16 × 25 | 180 | 16 × 25 | 180 | 16 × 31.5 | 185 | 16 × 35.5 | 190 | 18 × 35.5 | 170 | 18 × 40 | 170 |
| 47 | 470 | 16 × 25 | 220 | 16 × 25 | 220 | 16 × 31.5 | 225 | 18 × 35.5 | 235 | 18 × 40 | 240 | | | | |
| 100 | 101 | 16 × 35.5 | 330 | 18 × 40 | 345 | 18 × 40 | 345 | | | | | | | | Case size ※ 1 |

※ 1 Rated ripple current (mArms) at 105°C 120Hz



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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