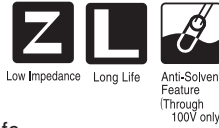
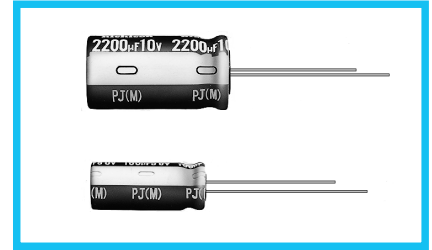
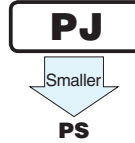


ALUMINUM ELECTROLYTIC CAPACITORS

PJ series Low Impedance, For Switching Power Supplies



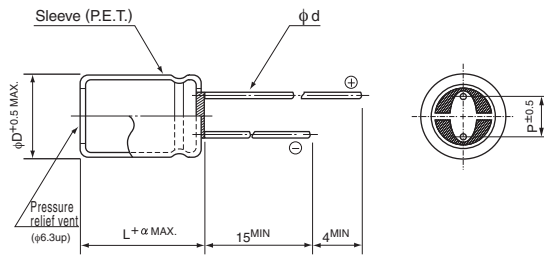
- Low impedance and high reliability withstanding 5000 hours load life at +105°C (3000 / 2000 hours for smaller case sizes as specified below).
- Capacitance ranges available based on the numerical values in E12 series under JIS.
- Ideally suited for use of switching power supplies.
- Compliant to the 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 — — — — — — — — — |
| | | Z-40°C / Z+20°C — — — — — 4 6 8 10 — |
| | | Z-55°C / Z+20°C 4 3 3 2 — — — — — |
| | | For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF. |
| 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 | Within ±20% of the initial capacitance value |
| | tan δ | 200% or less than the initial specified value |
| 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 | Within ±20% of the initial capacitance value |
| | tan δ | 150% or less than the initial specified value |
| Marking | Printed with white color letter on dark brown sleeve. | |

Radial Lead Type



Type numbering system (Example : 25V 470μF)

| | |
|-------------|------|
| Type | Code |
| Small Dia | — |
| Low Profile | 6 |
| Size code | |

Configuration: U P J 1 E 4 7 1 M P D

- Capacitance tolerance (±20%)
- Rated capacitance (470μF)
- Rated voltage (25V)
- Series name
- Type

| φ D | Pb-free leadwire Pb-free PET sleeve |
|------------|-------------------------------------|
| 5 | DD |
| 6.3 | ED |
| 8 · 10 | PD |
| 12.5 to 18 | HD |

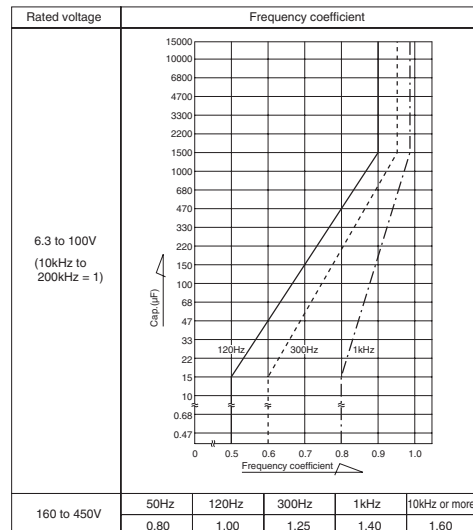
| | |
|---|---------------|
| α | (φD < 10) 1.0 |
| | (φD ≥ 10) 1.5 |

| | (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 |
| 150 | 151 | | 6.3 × 11 | | 6.3 × 11 | | 6.3 × 15 | | 8 × 11.5 | | 8 × 15 |
| 180 | 181 | | 6.3 × 11 | | 6.3 × 11 | | 6.3 × 15 | | 8 × 15 | 10 × 12.5 | 8 × 20 |
| 220 | 221 | | 6.3 × 11 | | 6.3 × 15 | | 8 × 11.5 | | 8 × 15 | 10 × 12.5 | 8 × 20 |
| 270 | 271 | | 6.3 × 15 | | 6.3 × 15 | | 8 × 15 | 10 × 12.5 | 8 × 20 | 10 × 15 | 10 × 20 |
| 330 | 331 | | 6.3 × 15 | | 8 × 11.5 | | 8 × 15 | 10 × 12.5 | 8 × 20 | 10 × 15 | 10 × 20 |
| 390 | 391 | | 8 × 11.5 | | 8 × 15 | 10 × 12.5 | 8 × 20 | 10 × 15 | 10 × 20 | 12.5 × 15 | 10 × 25 |
| 470 | 471 | | 8 × 15 | 10 × 12.5 | 8 × 15 | 10 × 12.5 | 8 × 20 | 10 × 15 | 10 × 20 | 12.5 × 15 | 10 × 31.5 |
| 560 | 561 | | 8 × 15 | 10 × 12.5 | 8 × 20 | 10 × 15 | 10 × 20 | 12.5 × 15 | 10 × 25 | 12.5 × 15 | 12.5 × 20 |
| 680 | 681 | | 8 × 20 | 10 × 15 | 8 × 20 | 10 × 15 | 10 × 20 | 12.5 × 15 | 10 × 31.5 | 16 × 15 | 12.5 × 25 |
| 820 | 821 | | 8 × 20 | 10 × 15 | 10 × 20 | 12.5 × 15 | 10 × 25 | 12.5 × 15 | 12.5 × 20 | 16 × 15 | 12.5 × 25 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 | | | | | | | | |

φ D × 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 |
| 33 | 330 | | 6.3 × 11 | | 6.3 × 15 | | 8 × 11.5 | | 8 × 15 |
| 39 | 390 | | 6.3 × 11 | | 6.3 × 15 | | 8 × 15 | 10 × 12.5 | 8 × 20 |
| 47 | 470 | | 6.3 × 15 | | 8 × 11.5 | | 8 × 15 | 10 × 12.5 | 10 × 20 |
| 56 | 560 | | 6.3 × 15 | | 8 × 15 | 10 × 12.5 | 8 × 20 | 10 × 15 | 10 × 20 |
| 68 | 680 | | 8 × 11.5 | | 8 × 15 | 10 × 12.5 | 10 × 20 | 12.5 × 15 | 10 × 25 |
| 82 | 820 | | 8 × 15 | 10 × 12.5 | 8 × 20 | 10 × 15 | 10 × 20 | 12.5 × 15 | 10 × 31.5 |
| 100 | 101 | | 8 × 20 | 10 × 15 | 10 × 20 | 12.5 × 15 | 10 × 25 | 12.5 × 15 | 10 × 31.5 |
| 120 | 121 | | 8 × 20 | 10 × 15 | 10 × 20 | 12.5 × 15 | 10 × 31.5 | 16 × 15 | 12.5 × 25 |
| 150 | 151 | | 10 × 20 | 12.5 × 15 | 10 × 25 | 12.5 × 15 | 10 × 31.5 | 16 × 15 | 12.5 × 25 |
| 180 | 181 | | 10 × 20 | 12.5 × 15 | 10 × 31.5 | 16 × 15 | 12.5 × 25 | 16 × 15 | 12.5 × 31.5 |
| 220 | 221 | | 10 × 25 | 12.5 × 15 | 12.5 × 20 | 16 × 15 | 12.5 × 31.5 | 18 × 15 | 12.5 × 35.5 |
| 270 | 271 | | 10 × 31.5 | 16 × 15 | 12.5 × 25 | 18 × 15 | 12.5 × 31.5 | 16 × 20 | 12.5 × 40 |
| 330 | 331 | | 10 × 31.5 | 16 × 15 | 12.5 × 25 | 18 × 15 | 12.5 × 35.5 | 16 × 25 | 16 × 31.5 |
| 390 | 391 | | 12.5 × 25 | 16 × 15 | 12.5 × 31.5 | 16 × 20 | 12.5 × 40 | 18 × 20 | 16 × 35.5 |
| 470 | 471 | | 12.5 × 25 | 18 × 15 | 12.5 × 35.5 | 16 × 25 | 16 × 31.5 | 18 × 25 | 16 × 40 |
| 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 | | | | | | |

φ D × 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) | | 16 (1C) | | | | | | | | | |
|-----------|-----|-------------|---------------|-----------------------------|--------------------|-------------------------|-----------------------|---------------|-----------------------------|--------------------|-------------------------|-----------------------|--|
| | | Size code | | — | | | | | | 6 | | | |
| | | Item | | Case size φD × L (mm) | Impedance (Ω) MAX. | | Rated ripple (mA rms) | | Case size φD × L (mm) | Impedance (Ω) MAX. | | Rated ripple (mA rms) | |
| | | Code | 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) | | 25 (1E) | | | | | | | | | |
|-----------|-----|-------------|---------------|-----------------------------|--------------------|-------------------------|-----------------------|---------------|-----------------------------|--------------------|-------------------------|-----------------------|--|
| | | Size code | | — | | | | | | 6 | | | |
| | | Item | | Case size φD × L (mm) | Impedance (Ω) MAX. | | Rated ripple (mA rms) | | Case size φD × L (mm) | Impedance (Ω) MAX. | | Rated ripple (mA rms) | |
| | | Code | 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.



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 / 100kHz to 200kHz | 105°C / 120Hz | | 20°C / 100kHz | -10°C / 100kHz | 105°C / 100kHz 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



Стандарт Электрон Связь

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

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