

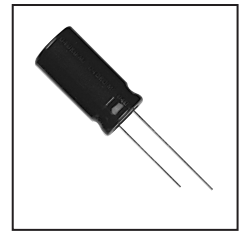
RADIAL TYPE

WL Series

Low Impedance, Miniature Sized

JAMICON®

- Smaller case sizes than WG series.
- Lower impedance at high frequency and high ripple current.
- Suitable for output of Motherboard and Switching power supplies.



● SPECIFICATION

| Item | Characteristic | | | | | | | | |
|--|---|---|--------|------|-----------------------------------|-------|------|--|--|
| Operation Temperature Range | -55 ~ +105°C | | | | | | | | |
| Rated Working Voltage | 6.3 ~ 50VDC | | | | | | | | |
| Capacitance Tolerance (120Hz 20°C) | ±20%(M) | | | | | | | | |
| Leakage Current (20°C) | $I \leq 0.01CV$ or $3 (\mu A)$ | | | | I : Leakage Current (μA) | | | | |
| | *Whichever is greater after 3 minutes | | | | C : Rated Capacitance (μF) | | | | |
| | | | | | V : Working Voltage (V) | | | | |
| Surge Voltage (20°C) | W.V. | 6.3 | 10 | 16 | 25 | 35 | 50 | | |
| | S.V. | 8 | 13 | 20 | 32 | 44 | 63 | | |
| Dissipation Factor (tan δ) (120Hz 20°C) | Add 0.02 per 1000 μF for more than 1000 μF | | | | | | | | |
| | W.V. | 6.3 | 10 | 16 | 25 | 35 | 50 | | |
| | tan δ | 0.22 | 0.19 | 0.16 | 0.14 | 0.12 | 0.10 | | |
| Low Temperature Stability | Impedance ratio at 120Hz | | | | | | | | |
| | Rated Voltage (V) | | 6.3~16 | | | 25~50 | | | |
| | -25°C / +20°C | | 3 | | | 2 | | | |
| | -55°C / +20°C | | 6 | | | 4 | | | |
| Load Life | After hours ($\phi D \leq 8mm$ 1000 hours, $\phi D \geq 10mm$ 2000 hours) application of W.V. and +105°C ripple current value, the capacitor shall meet the following limits. (DC + ripple peak voltage \leq rate working voltage) | | | | | | | | |
| | Capacitance Change | $\leq \pm 20\%$ of initial value | | | | | | | |
| | Dissipation Factor | $\leq 200\%$ of initial specified value | | | | | | | |
| | Leakage current | \leq initial specified value | | | | | | | |
| Shelf Life | At +105°C no voltage application after 1000 hours the capacitor shall meet the limits for load life characteristics. (with voltage treatment) | | | | | | | | |

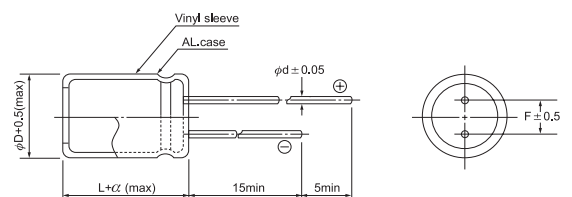
● DIMENSIONS (mm)

| ϕD | 5 | 6.3 | 8 | 10 | 12.5 | 16 | 18 |
|----------|-----|-----|-----|-----|------|-----|-----|
| F | 2.0 | 2.5 | 3.5 | 5.0 | 5.0 | 7.5 | 7.5 |
| d | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 |
| α | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |

● RIPPLE CURRENT COEFFICIENTS

| Temperature(°C) | 65 | 75 | 85 | 95 | 105 |
|-----------------|------|------|------|------|------|
| Multiplier | 2.12 | 1.92 | 1.69 | 1.50 | 1.00 |

| Frequency(Hz) | 60 | 120 | 400 | 1k | 10k | 100k |
|---------------|------------|------|------|------|------|------|
| W.V. | Multiplier | | | | | |
| 10~16V | 0.45 | 0.60 | 0.83 | 0.94 | 0.98 | 1.00 |
| 25~35V | 0.38 | 0.50 | 0.75 | 0.90 | 0.97 | 1.00 |
| 50V | 0.36 | 0.46 | 0.70 | 0.88 | 0.94 | 1.00 |



● CASE SIZE & MAX RIPPLE CURRENT

Case size : D x L (mm)
 Max impedance : Ω 100kHz
 Max ripple current : mA(rms) 105°C 100kHz

| μF | Code | V(Code) Item | 6.3 (0J) | | | 10 (1A) | | | | |
|-------|------|-----------------|----------|-------|-------|---------|---------|-------|-------|------|
| | | | DxL | IMP. | | R.C. | DxL | IMP. | | R.C. |
| | | | | 20°C | -10°C | | | 20°C | -10°C | |
| 100 | 101 | | | | → | 5x11 | 0.312 | 0.937 | 230 | |
| 120 | 121 | | | | → | 5x11 | 0.266 | 0.798 | 250 | |
| 150 | 151 | | 5x11 | 0.219 | 0.656 | 250 | 5x11 | 0.218 | 0.653 | 280 |
| 180 | 181 | | 5x11 | 0.190 | 0.571 | 270 | 5x15 | 0.189 | 0.568 | 360 |
| | | | | | | → | 6.3x11 | 0.189 | 0.568 | 350 |
| 220 | 221 | | 5x11 | 0.162 | 0.487 | 300 | 5x15 | 0.161 | 0.484 | 400 |
| | | | | | | → | 6.3x11 | 0.161 | 0.484 | 390 |
| 270 | 271 | | 5x15 | 0.148 | 0.444 | 380 | 5x15 | 0.147 | 0.442 | 440 |
| | | | 6.3x11 | 0.148 | 0.444 | 380 | 6.3x11 | 0.147 | 0.442 | 430 |
| 330 | 331 | | 5x15 | 0.130 | 0.389 | 420 | 6.3x15 | 0.129 | 0.387 | 550 |
| | | | 6.3x11 | 0.130 | 0.389 | 420 | 8x11.5 | 0.129 | 0.387 | 560 |
| 390 | 391 | | 6.3x15 | 0.117 | 0.351 | 520 | 6.3x15 | 0.116 | 0.349 | 600 |
| | | | 8x11.5 | 0.117 | 0.351 | 530 | 8x11.5 | 0.116 | 0.349 | 610 |
| 470 | 471 | | 6.3x15 | 0.106 | 0.319 | 570 | 6.3x15 | 0.106 | 0.317 | 660 |
| | | | 8x11.5 | 0.106 | 0.319 | 580 | 8x11.5 | 0.106 | 0.317 | 670 |
| 560 | 561 | | 6.3x15 | 0.094 | 0.283 | 620 | 6.3x15 | 0.094 | 0.281 | 720 |
| | | | 8x11.5 | 0.094 | 0.283 | 630 | 8x11.5 | 0.094 | 0.281 | 730 |
| 680 | 681 | | 6.3x15 | 0.084 | 0.252 | 680 | 8x15 | 0.083 | 0.250 | 900 |
| | | | 8x11.5 | 0.084 | 0.252 | 700 | 10x12.5 | 0.083 | 0.250 | 950 |
| 820 | 821 | | 8x15 | 0.077 | 0.230 | 860 | 8x15 | 0.076 | 0.228 | 990 |
| | | | 10x12.5 | 0.077 | 0.230 | 900 | 10x12.5 | 0.076 | 0.228 | 1040 |
| 1000 | 102 | | 8x15 | 0.069 | 0.206 | 950 | 8x20 | 0.068 | 0.204 | 1240 |
| | | | 10x12.5 | 0.069 | 0.206 | 990 | 10x16 | 0.068 | 0.204 | 1280 |
| 1200 | 122 | | 8x20 | 0.059 | 0.178 | 1180 | 10x20 | 0.059 | 0.177 | 1540 |
| | | | 10x16 | 0.059 | 0.178 | 1210 | 12.5x15 | 0.059 | 0.148 | 1480 |
| 1500 | 152 | | 10x20 | 0.036 | 0.107 | 1450 | 10x25 | 0.035 | 0.106 | 1830 |
| | | | 12.5x15 | 0.036 | 0.089 | 1390 | 12.5x18 | 0.035 | 0.089 | 1720 |
| 1800 | 182 | | 10x20 | 0.031 | 0.094 | 1590 | 10x25 | 0.031 | 0.094 | 2000 |
| | | | 12.5x15 | 0.031 | 0.078 | 1520 | 12.5x18 | 0.031 | 0.078 | 1880 |
| 2200 | 222 | | 10x25 | 0.028 | 0.083 | 1880 | 10x28 | 0.027 | 0.082 | 2250 |
| | | | 12.5x18 | 0.028 | 0.069 | 1770 | 16x15 | 0.027 | 0.068 | 1960 |
| 2700 | 272 | | 10x28 | 0.025 | 0.075 | 2140 | 12.5x20 | 0.025 | 0.062 | 2250 |
| | | | 16x15 | 0.025 | 0.063 | 1870 | 16x15 | 0.025 | 0.062 | 2100 |
| 3300 | 332 | | 12.5x20 | 0.023 | 0.058 | 2150 | 12.5x25 | 0.023 | 0.057 | 2650 |
| | | | 16x15 | 0.023 | 0.058 | 2010 | 18x15 | 0.023 | 0.057 | 2300 |
| 3900 | 392 | | 12.5x25 | 0.022 | 0.055 | 2520 | 12.5x30 | 0.022 | 0.055 | 3030 |
| | | | 18x15 | 0.022 | 0.055 | 2190 | 16x20 | 0.022 | 0.055 | 2670 |
| 4700 | 472 | | 12.5x30 | 0.021 | 0.053 | 2860 | 12.5x35 | 0.021 | 0.053 | 3210 |
| | | | 16x20 | 0.021 | 0.053 | 2520 | 16x25 | 0.021 | 0.053 | 3050 |
| 5600 | 562 | | 12.5x35 | 0.020 | 0.050 | 3060 | 12.5x40 | 0.020 | 0.049 | 3550 |
| | | | 16x25 | 0.020 | 0.050 | 2900 | 18x20 | 0.020 | 0.049 | 2940 |
| 6800 | 682 | | 12.5x40 | 0.019 | 0.047 | 3450 | 16x31.5 | 0.019 | 0.047 | 3680 |
| | | | 18x20 | 0.019 | 0.047 | 2850 | 18x25 | 0.019 | 0.047 | 3390 |
| 8200 | 822 | | 16x31.5 | 0.018 | 0.045 | 3540 | 16x35.5 | 0.018 | 0.044 | 4010 |
| | | | 18x25 | 0.018 | 0.045 | 3260 | 18x31.5 | 0.018 | 0.044 | 3870 |
| 10000 | 103 | | 16x35.5 | 0.017 | 0.043 | 3880 | | | | |
| | | | 18x31.5 | 0.017 | 0.043 | 3740 | 18x35.5 | 0.017 | 0.042 | 4190 |

All blank voltage on sleeve marking is the same voltage as" → "point to.

● CASE SIZE & MAX RIPPLE CURRENT

Case size : D x L (mm)
 Max impedance : Ω 100kHz
 Max ripple current : mA(rms) 105°C 100kHz

| μF | Code | V(Code) Item | 16 (1C) | | | 25 (1E) | | | | |
|------|------|-----------------|---------|-------|-------|---------|---------|-------|-------|------|
| | | | DxL | IMP. | | R.C. | DxL | IMP. | | R.C. |
| | | | | 20°C | -10°C | | | 20°C | -10°C | |
| 47 | 470 | | | | → | 5x11 | 0.283 | 0.085 | 220 | |
| 56 | 560 | | 5x11 | 0.253 | 0.759 | 190 | 5x11 | 0.253 | 0.758 | 240 |
| 68 | 680 | | 5x11 | 0.221 | 0.662 | 210 | 5x11 | 0.220 | 0.661 | 270 |
| 82 | 820 | | 5x11 | 0.203 | 0.610 | 230 | 5x15 | 0.203 | 0.609 | 340 |
| | | | | | | → | 6.3x11 | 0.203 | 0.609 | 330 |
| 100 | 101 | | 5x11 | 0.183 | 0.550 | 250 | 5x15 | 0.183 | 0.549 | 370 |
| | | | | | | → | 6.3x11 | 0.183 | 0.549 | 370 |
| 120 | 121 | | 5x15 | 0.156 | 0.469 | 320 | 5x15 | 0.156 | 0.468 | 410 |
| | | | 6.3x11 | 0.156 | 0.469 | 320 | 6.3x11 | 0.156 | 0.468 | 400 |
| 150 | 151 | | 5x15 | 0.128 | 0.383 | 360 | 6.3x15 | 0.128 | 0.383 | 510 |
| | | | 6.3x11 | 0.128 | 0.383 | 350 | 8x11.5 | 0.128 | 0.383 | 520 |
| 180 | 181 | | 5x15 | 0.111 | 0.333 | 390 | 6.3x15 | 0.111 | 0.333 | 560 |
| | | | 6.3x11 | 0.111 | 0.333 | 390 | 8x11.5 | 0.111 | 0.333 | 570 |
| 220 | 221 | | 5x15 | 0.095 | 0.284 | 430 | 6.3x15 | 0.095 | 0.284 | 620 |
| | | | 6.3x11 | 0.095 | 0.284 | 430 | 8x11.5 | 0.095 | 0.284 | 630 |
| 270 | 271 | | 6.3x15 | 0.086 | 0.259 | 550 | 8x15 | 0.086 | 0.259 | 790 |
| | | | 8x11.5 | 0.086 | 0.259 | 550 | 10x12.5 | 0.086 | 0.259 | 830 |
| 330 | 331 | | 6.3x15 | 0.076 | 0.227 | 600 | 8x15 | 0.076 | 0.227 | 870 |
| | | | 8x11.5 | 0.076 | 0.227 | 610 | 10x12.5 | 0.076 | 0.227 | 910 |
| 390 | 391 | | 8x15 | 0.068 | 0.205 | 750 | 8x20 | 0.068 | 0.205 | 1080 |
| | | | 10x12.5 | 0.068 | 0.205 | 790 | 10x16 | 0.068 | 0.205 | 1100 |
| 470 | 471 | | 8x15 | 0.062 | 0.186 | 820 | 8x20 | 0.062 | 0.186 | 1180 |
| | | | 10x12.5 | 0.062 | 0.186 | 860 | 10x16 | 0.062 | 0.186 | 1210 |
| 560 | 561 | | 8x20 | 0.055 | 0.165 | 1020 | 8x20 | 0.055 | 0.165 | 1290 |
| | | | 10x16 | 0.055 | 0.165 | 1050 | 10x16 | 0.055 | 0.165 | 1320 |
| 680 | 681 | | 8x20 | 0.049 | 0.147 | 1120 | 10x20 | 0.049 | 0.147 | 1610 |
| | | | 10x16 | 0.049 | 0.147 | 1150 | 12.5x15 | 0.049 | 0.122 | 1550 |
| 820 | 821 | | 8x20 | 0.045 | 0.134 | 1230 | 10x25 | 0.045 | 0.134 | 1950 |
| | | | 10x16 | 0.045 | 0.134 | 1270 | 12.5x18 | 0.045 | 0.112 | 1830 |
| 1000 | 102 | | 10x20 | 0.040 | 0.120 | 1540 | 10x28 | 0.040 | 0.120 | 2270 |
| | | | 12.5x15 | 0.040 | 0.100 | 1480 | 16x15 | 0.040 | 0.100 | 1980 |
| 1200 | 122 | | 10x25 | 0.035 | 0.104 | 1870 | 12.5x20 | 0.035 | 0.104 | 2320 |
| | | | 12.5x18 | 0.035 | 0.087 | 1750 | 16x15 | 0.035 | 0.087 | 2170 |
| 1500 | 152 | | 10x28 | 0.029 | 0.088 | 2100 | 12.5x25 | 0.029 | 0.074 | 2710 |
| | | | 16x15 | 0.029 | 0.074 | 1830 | 18x15 | 0.029 | 0.074 | 2480 |
| 1800 | 182 | | 12.5x20 | 0.026 | 0.065 | 2140 | 12.5x30 | 0.026 | 0.065 | 3230 |
| | | | 16x15 | 0.026 | 0.065 | 2000 | 16x20 | 0.026 | 0.065 | 2840 |
| 2200 | 222 | | 12.5x25 | 0.023 | 0.057 | 2500 | 12.5x35 | 0.023 | 0.057 | 3470 |
| | | | 18x15 | 0.023 | 0.057 | 2170 | 16x25 | 0.023 | 0.057 | 3290 |
| 2700 | 272 | | 12.5x30 | 0.021 | 0.052 | 2890 | 12.5x40 | 0.021 | 0.052 | 3910 |
| | | | 16x20 | 0.021 | 0.052 | 2540 | 18x20 | 0.021 | 0.052 | 3240 |
| 3300 | 332 | | 12.5x35 | 0.019 | 0.048 | 3130 | 16x31.5 | 0.019 | 0.047 | 4100 |
| | | | 16x25 | 0.019 | 0.048 | 2970 | 18x25 | 0.019 | 0.047 | 3770 |
| 3900 | 392 | | 12.5x40 | 0.018 | 0.046 | 3500 | 16x35.5 | 0.018 | 0.046 | 4530 |
| | | | 18x20 | 0.018 | 0.046 | 2900 | 18x31.5 | 0.018 | 0.046 | 4360 |
| 4700 | 472 | | 16x31.5 | 0.016 | 0.040 | 3560 | | | | |
| | | | 18x25 | 0.016 | 0.040 | 3280 | 18x35.5 | 0.016 | 0.040 | 4720 |
| 5600 | 562 | | 16x35.5 | 0.015 | 0.038 | 3880 | | | | |
| | | | 18x31.5 | 0.015 | 0.038 | 3740 | | | | |

All blank voltage on sleeve marking is the same voltage as " → "point to.

● CASE SIZE & MAX RIPPLE CURRENT

Case size : D x L (mm)
 Max impedance : Ω 100kHz
 Max ripple current : mA(rms) 105°C 100kHz

| μF | Code | V(Code) Item | 35 (1V) | | | | 50 (1H) | | | |
|------|------|-----------------|---------|-------|-------|------|---------|-------|-------|------|
| | | | DxL | IMP. | | R.C. | DxL | IMP. | | R.C. |
| | | | | 20°C | -10°C | | | 20°C | -10°C | |
| 0.47 | R47 | | | | → | 5x11 | 3.006 | 9.017 | 27 | |
| 1 | 010 | | | | → | 5x11 | 2.825 | 8.476 | 40 | |
| 2.2 | 2R2 | | | | → | 5x11 | 1.511 | 4.533 | 60 | |
| 3.3 | 3R3 | | | | → | 5x11 | 1.259 | 3.777 | 70 | |
| 4.7 | 4R7 | | 5x11 | 1.062 | 3.185 | 75 | 5x11 | 1.061 | 3.182 | 85 |
| 6.8 | 6R8 | | 5x11 | 0.917 | 2.752 | 90 | 5x11 | 0.916 | 2.749 | 100 |
| 10 | 100 | | 5x11 | 0.832 | 2.495 | 110 | 5x11 | 0.831 | 2.493 | 130 |
| 15 | 150 | | 5x11 | 0.610 | 1.829 | 130 | 5x11 | 0.609 | 1.828 | 150 |
| 18 | 180 | | 5x11 | 0.531 | 1.594 | 150 | 5x11 | 0.531 | 1.593 | 170 |
| 22 | 220 | | 5x11 | 0.454 | 1.361 | 160 | 5x11 | 0.453 | 1.360 | 190 |
| 27 | 270 | | 5x11 | 0.400 | 1.201 | 180 | 5x11 | 0.400 | 1.200 | 210 |
| 33 | 330 | | 5x11 | 0.353 | 1.058 | 200 | 5x11 | 0.353 | 1.058 | 230 |
| 39 | 390 | | 5x11 | 0.320 | 0.096 | 210 | 5x15 | 0.320 | 0.959 | 290 |
| | | | | | | → | 6.3x11 | 0.320 | 0.959 | 280 |
| 47 | 470 | | 5x11 | 0.283 | 0.849 | 230 | 5x15 | 0.283 | 0.849 | 310 |
| | | | | | | → | 6.3x11 | 0.283 | 0.849 | 310 |
| 56 | 560 | | 5x15 | 0.252 | 0.757 | 290 | 5x15 | 0.252 | 0.757 | 340 |
| | | | 6.3x11 | 0.252 | 0.757 | 290 | 6.3x11 | 0.252 | 0.757 | 340 |
| 68 | 680 | | 5x15 | 0.220 | 0.660 | 320 | 6.3x15 | 0.220 | 0.660 | 430 |
| | | | 6.3x11 | 0.220 | 0.660 | 320 | 8x11.5 | 0.220 | 0.660 | 430 |
| 82 | 820 | | 5x15 | 0.203 | 0.608 | 360 | 6.3x15 | 0.203 | 0.608 | 470 |
| | | | 6.3x11 | 0.203 | 0.608 | 350 | 8x11.5 | 0.203 | 0.608 | 480 |
| 100 | 101 | | 6.3x15 | 0.183 | 0.549 | 450 | 8x15 | 0.183 | 0.548 | 590 |
| | | | 8x11.5 | 0.183 | 0.549 | 450 | 10x12.5 | 0.183 | 0.548 | 620 |
| 120 | 121 | | 6.3x15 | 0.109 | 0.327 | 490 | 8x15 | 0.109 | 0.327 | 650 |
| | | | 8x11.5 | 0.109 | 0.327 | 500 | 10x12.5 | 0.109 | 0.327 | 680 |
| 150 | 151 | | 6.3x15 | 0.089 | 0.268 | 550 | 8x20 | 0.089 | 0.268 | 820 |
| | | | 8x11.5 | 0.089 | 0.268 | 550 | 10x16 | 0.089 | 0.268 | 840 |
| 180 | 181 | | 8x15 | 0.078 | 0.233 | 680 | 8x20 | 0.078 | 0.233 | 900 |
| | | | 10x12.5 | 0.078 | 0.233 | 720 | 10x16 | 0.078 | 0.233 | 920 |
| 220 | 221 | | 8x15 | 0.066 | 0.198 | 750 | 8x20 | 0.066 | 0.198 | 1000 |
| | | | 10x12.5 | 0.066 | 0.198 | 790 | 10x16 | 0.066 | 0.198 | 1020 |
| 270 | 271 | | 8x20 | 0.060 | 0.181 | 950 | 10x20 | 0.060 | 0.181 | 1250 |
| | | | 10x16 | 0.060 | 0.181 | 970 | 12.5x15 | 0.060 | 0.151 | 1200 |
| 330 | 331 | | 8x20 | 0.053 | 0.159 | 1050 | 10x25 | 0.053 | 0.159 | 1530 |
| | | | 10x16 | 0.053 | 0.159 | 1080 | 12.5x18 | 0.053 | 0.132 | 1430 |
| 390 | 391 | | 10x20 | 0.048 | 0.143 | 1290 | 10x25 | 0.048 | 0.143 | 1660 |
| | | | 12.5x15 | 0.048 | 0.119 | 1240 | 12.5x18 | 0.048 | 0.119 | 1560 |
| 470 | 471 | | 10x20 | 0.043 | 0.130 | 1420 | 12.5x20 | 0.043 | 0.108 | 1790 |
| | | | 12.5x15 | 0.043 | 0.108 | 1360 | 16x15 | 0.043 | 0.108 | 1680 |
| 560 | 561 | | 10x25 | 0.038 | 0.115 | 1710 | 12.5x25 | 0.038 | 0.096 | 2150 |
| | | | 12.5x18 | 0.038 | 0.096 | 1610 | 18x15 | 0.038 | 0.096 | 1870 |
| 680 | 681 | | 10x28 | 0.034 | 0.103 | 1990 | 12.5x30 | 0.034 | 0.086 | 2580 |
| | | | 16x15 | 0.034 | 0.086 | 1730 | 16x20 | 0.034 | 0.086 | 2260 |
| 820 | 821 | | 10x30 | 0.031 | 0.094 | 2250 | 12.5x35 | 0.031 | 0.078 | 2880 |
| | | | 16x15 | 0.031 | 0.078 | 1900 | 16x25 | 0.031 | 0.078 | 2730 |
| 1000 | 102 | | 12.5x25 | 0.028 | 0.070 | 2480 | 12.5x40 | 0.028 | 0.070 | 3390 |
| | | | 18x15 | 0.028 | 0.070 | 2150 | 18x20 | 0.028 | 0.070 | 2800 |
| 1200 | 122 | | 12.5x30 | 0.024 | 0.061 | 2940 | 16x31.5 | 0.024 | 0.061 | 3660 |
| | | | 16x20 | 0.024 | 0.061 | 2590 | 18x25 | 0.024 | 0.061 | 3370 |
| 1500 | 152 | | 12.5x35 | 0.021 | 0.051 | 3160 | 16x35.5 | 0.021 | 0.051 | 4040 |
| | | | 16x25 | 0.021 | 0.051 | 3000 | 18x31.5 | 0.021 | 0.051 | 3890 |
| 1800 | 182 | | 12.5x40 | 0.018 | 0.045 | 3690 | | | | |
| | | | 18x20 | 0.018 | 0.045 | 3050 | | | | |
| 2200 | 222 | | 16x31.5 | 0.016 | 0.040 | 3810 | | | | |
| | | | 18x25 | 0.016 | 0.040 | 3510 | | | | |

All blank voltage on sleeve marking is the same voltage as" → "point to.

● CASE SIZE & MAX RIPPLE CURRENT

Case size : D x L (mm)
 Max impedance : Ω 100kHz
 Max ripple current : mA(rms) 105°C 100kHz

| μF | Code | V(Code) Item | DxL | 63 (1J) | | R.C. |
|------|------|-----------------|---------|---------|-------|------|
| | | | | IMP. | | |
| | | | | 20°C | -10°C | |
| 1 | 010 | | 5x11 | 3.158 | 9.473 | 40 |
| 2.2 | 2R2 | | 5x11 | 1.813 | 5.439 | 60 |
| 3.3 | 3R3 | | 5x11 | 1.511 | 4.533 | 70 |
| 4.7 | 4R7 | | 5x11 | 1.273 | 3.819 | 85 |
| 10 | 100 | | 5x11 | 0.997 | 2.991 | 130 |
| 22 | 220 | | 5x11 | 0.544 | 1.632 | 190 |
| | | | 6.3x11 | 0.544 | 1.632 | 210 |
| 33 | 330 | | 5x15 | 0.423 | 1.269 | 260 |
| | | | 6.3x11 | 0.423 | 1.269 | 260 |
| 47 | 470 | | 8x11.5 | 0.339 | 1.018 | 360 |
| 68 | 680 | | 8x15 | 0.220 | 0.660 | 490 |
| 100 | 101 | | 10x12.5 | 0.183 | 0.548 | 620 |
| 220 | 221 | | 10x20 | 0.094 | 0.283 | 1130 |
| 330 | 331 | | 10x30 | 0.076 | 0.227 | 1660 |
| 470 | 471 | | 12.5x25 | 0.062 | 0.155 | 1970 |
| 680 | 681 | | 12.5x35 | 0.039 | 0.098 | 2760 |
| 1000 | 102 | | 16x25 | 0.032 | 0.080 | 3020 |