





## Standard ratings

| V (Code)  |           | 6.3 (0J)                    |                    |                |  | 10 (1A)                     |                    |                |  |
|-----------|-----------|-----------------------------|--------------------|----------------|--|-----------------------------|--------------------|----------------|--|
| Cap. (μF) | Item Code | Case size<br>φD × L<br>(mm) | Impedance (Ω MAX.) |                | Rated ripple<br>(mA rms)<br>105°C / 100kHz | Case size<br>φD × L<br>(mm) | Impedance (Ω MAX.) |                | Rated ripple<br>(mA rms)<br>105°C / 100kHz |
|           |           |                             | 20°C / 100kHz      | -10°C / 100kHz |  |                             | 20°C / 100kHz      | -10°C / 100kHz |  |
| 22        | 220       | 5 × 11                      | 0.60               | 1.20           | 180  | 5 × 11<br>▲ 4 × 7           | 0.60<br>2.00       | 1.20<br>5.00   | 180<br>65                                  |
| 27        | 270       | 4 × 7                       | 2.00               | 5.00           | 65   |                             |                    |                |  |
| 33        | 330       | 5 × 11<br>▲ 5 × 7           | 0.60<br>0.95       | 1.20<br>2.40   | 180<br>120                                 | 5 × 11<br>▲ 5 × 7           | 0.60<br>0.95       | 1.20<br>2.40   | 180<br>120                                 |
| 39        | 390       |                             |                    |                |  | 5 × 7                       | 0.95               | 2.40           | 120  |
| 47        | 470       | 5 × 11<br>▲ 5 × 7           | 0.60<br>0.95       | 1.20<br>2.40   | 180<br>120                                 | 5 × 11<br>▲ 4 × 11          | 0.60<br>1.30       | 1.20<br>2.60   | 180<br>120                                 |
| 56        | 560       | 5 × 7                       | 0.95               | 2.40           | 120  |                             |                    |                |  |
| 68        | 680       | 4 × 11                      | 1.30               | 2.60           | 120  |                             |                    |                |  |
| 82        | 820       |                             |                    |                |  | 5 × 11<br>▲ 6.3 × 7         | 0.60<br>0.45       | 1.20<br>1.20   | 180<br>200                                 |
| 100       | 101       | 5 × 11                      | 0.60               | 1.20           | 180  | 5 × 11<br>▲ 5 × 15          | 0.60<br>0.50       | 1.20<br>1.00   | 180<br>235                                 |
| 120       | 121       | 6.3 × 7                     | 0.45               | 1.20           | 200  |                             |                    |                |  |
| 150       | 151       | 6.3 × 11<br>▲ 5 × 15        | 0.25<br>0.50       | 0.50<br>1.00   | 290<br>235                                 | 6.3 × 11                    | 0.25               | 0.50           | 290  |
| 180       | 181       |                             |                    |                |  | 6.3 × 11                    | 0.25               | 0.50           | 290  |
| 220       | 221       | 6.3 × 11                    | 0.25               | 0.50           | 290  | 6.3 × 11<br>▲ 6.3 × 15      | 0.25<br>0.23       | 0.50<br>0.46   | 290<br>430                                 |
| 330       | 331       | 6.3 × 11<br>▲ 6.3 × 15      | 0.25<br>0.23       | 0.50<br>0.46   | 290<br>430                                 | 8 × 11.5                    | 0.117              | 0.234          | 555  |
| 470       | 471       | 8 × 11.5                    | 0.117              | 0.234          | 555  | 8 × 11.5                    | 0.117              | 0.234          | 555  |
| 560       | 561       | 8 × 11.5                    | 0.117              | 0.234          | 555  |                             |                    |                |  |
| 680       | 681       | 10 × 12.5                   | 0.090              | 0.18           | 755  | 10 × 12.5<br>▲ 8 × 15       | 0.090<br>0.085     | 0.18<br>0.17   | 760<br>730                                 |
| 820       | 821       | 8 × 15<br>▲ 10 × 12.5       | 0.085<br>0.090     | 0.17<br>0.18   | 730<br>755                                 |                             |                    |                |  |
| 1000      | 102       | 10 × 12.5                   | 0.090              | 0.18           | 755  | 10 × 16<br>▲ 8 × 20         | 0.068<br>0.065     | 0.136<br>0.13  | 1050<br>995                                |
| 1200      | 122       | 8 × 20<br>▲ 10 × 16         | 0.065<br>0.068     | 0.13<br>0.136  | 995<br>1050                                | 10 × 20                     | 0.052              | 0.104          | 1220                                       |
| 1500      | 152       | 10 × 20                     | 0.052              | 0.104          | 1220                                       | 10 × 20<br>▲ 10 × 25        | 0.052<br>0.045     | 0.104<br>0.090 | 1220<br>1440                               |
| 2200      | 222       | 12.5 × 20<br>▲ 10 × 25      | 0.038<br>0.045     | 0.076<br>0.090 | 1655<br>1440                               | 12.5 × 20<br>▲ 10 × 31.5    | 0.038<br>0.035     | 0.076<br>0.070 | 1655<br>1815                               |
| 2700      | 272       | 10 × 31.5                   | 0.035              | 0.070          | 1815                                       | 12.5 × 25                   | 0.030              | 0.060          | 1945                                       |
| 3300      | 332       | 12.5 × 20                   | 0.038              | 0.076          | 1655                                       | 12.5 × 25<br>▲ 12.5 × 31.5  | 0.030<br>0.025     | 0.060<br>0.050 | 1950<br>2310                               |
| 3900      | 392       | 12.5 × 25                   | 0.030              | 0.060          | 1945                                       | 12.5 × 35.5<br>▲ 16 × 20    | 0.022<br>0.029     | 0.044<br>0.058 | 2510<br>2210                               |
| 4700      | 472       | 16 × 25<br>▲ 12.5 × 31.5    | 0.022<br>0.025     | 0.044<br>0.050 | 2555<br>2310                               | 16 × 25                     | 0.022              | 0.044          | 2555                                       |
| 5600      | 562       | 12.5 × 35.5<br>▲ 16 × 20    | 0.022<br>0.029     | 0.044<br>0.058 | 2510<br>2210                               | 16 × 25<br>▲ 18 × 20        | 0.022<br>0.028     | 0.044<br>0.056 | 2560<br>2490                               |
| 6800      | 682       | 16 × 25<br>▲ 18 × 20        | 0.022<br>0.028     | 0.044<br>0.056 | 2560<br>2490                               | 16 × 31.5<br>▲ 18 × 25      | 0.018<br>0.020     | 0.036<br>0.040 | 3010<br>2740                               |
| 8200      | 822       | 16 × 31.5                   | 0.018              | 0.036          | 3010                                       | 16 × 35.5<br>▲ 18 × 31.5    | 0.016<br>0.016     | 0.032<br>0.032 | 3150<br>3635                               |
| 10000     | 103       | 16 × 31.5<br>▲ 18 × 25      | 0.016<br>0.020     | 0.032<br>0.040 | 3150<br>2740                               | 18 × 35.5                   | 0.015              | 0.030          | 3680                                       |
| 12000     | 123       | 18 × 31.5                   | 0.016              | 0.032          | 3635                                       |                             |                    |                |  |
| 15000     | 153       | 18 × 35.5                   | 0.015              | 0.030          | 3680                                       | 18 × 40                     | 0.014              | 0.028          | 3800                                       |

▲ : In this case, [6] will be put at 12th digit of type numbering system.



## Standard ratings

| V(Code)   |           | 16 (1C)                  |                    |                |                                      | 25 (1E)                               |                         |                         |                                      |
|-----------|-----------|--------------------------|--------------------|----------------|--------------------------------------|---------------------------------------|-------------------------|-------------------------|--------------------------------------|
| Cap. (μF) | Item Code | Case size φD × L (mm)    | Impedance (Ω MAX.) |                | Rated ripple (mA rms) 105°C / 100kHz | Case size φD × L (mm)                 | Impedance (Ω MAX.)      |                         | Rated ripple (mA rms) 105°C / 100kHz |
|           |           |                          | 20°C / 100kHz      | -10°C / 100kHz |                                      |                                       | 20°C / 100kHz           | -10°C / 100kHz          |                                      |
| 4.7       | 4R7       |                          |                    |                |                                      | 5 × 11                                | 0.60                    | 1.20                    | 180                                  |
| 10        | 100       | 5 × 11                   | 0.60               | 1.20           | 180                                  | 5 × 11<br>▲ 4 × 7                     | 0.60<br>2.00            | 1.20<br>5.00            | 180<br>65                            |
| 15        | 150       | 4 × 7                    | 2.00               | 5.00           | 65                                   |                                       |                         |                         |                                      |
| 22        | 220       | 5 × 11                   | 0.60               | 1.20           | 180                                  | 5 × 11                                | 0.60                    | 1.20                    | 180                                  |
|           |           | ▲ 5 × 7                  | 0.95               | 2.40           | 120                                  | ▲ 5 × 7                               | 0.95                    | 2.40                    | 120                                  |
| 27        | 270       | 5 × 7                    | 0.95               | 2.40           | 120                                  | 4 × 11                                | 1.30                    | 2.60                    | 120                                  |
| 33        | 330       | 5 × 11                   | 0.60               | 1.20           | 180                                  | 5 × 11                                | 0.60                    | 1.20                    | 180                                  |
|           |           | ▲ 6.3 × 7                | 0.45               | 1.20           | 200                                  |                                       |                         |                         |                                      |
| 39        | 390       | 4 × 11                   | 1.30               | 2.60           | 120                                  | 5 × 11<br>▲ 6.3 × 7                   | 0.60<br>0.45            | 1.20<br>1.20            | 180<br>200                           |
| 47        | 470       | 5 × 11                   | 0.60               | 1.20           | 180                                  | 5 × 11                                | 0.60                    | 1.20                    | 180                                  |
| 56        | 560       | 5 × 11<br>▲ 6.3 × 7      | 0.60<br>0.45       | 1.20<br>1.20   | 180<br>200                           | 5 × 15                                | 0.50                    | 1.00                    | 235                                  |
| 82        | 820       | 5 × 15                   | 0.50               | 1.00           | 235                                  | 6.3 × 11                              | 0.25                    | 0.50                    | 290                                  |
| 100       | 101       | 6.3 × 11                 | 0.25               | 0.50           | 290                                  | 6.3 × 11                              | 0.25                    | 0.50                    | 290                                  |
| 120       | 121       | 6.3 × 11                 | 0.25               | 0.50           | 290                                  | 6.3 × 15                              | 0.23                    | 0.46                    | 430                                  |
| 150       | 151       | 6.3 × 11                 | 0.25               | 0.50           | 290                                  | 8 × 11.5                              | 0.117                   | 0.234                   | 555                                  |
| 180       | 181       | 6.3 × 15                 | 0.23               | 0.46           | 430                                  |                                       |                         |                         |                                      |
| 220       | 221       | 8 × 11.5                 | 0.117              | 0.234          | 555                                  | 8 × 11.5                              | 0.117                   | 0.234                   | 555                                  |
| 330       | 331       | 8 × 11.5                 | 0.117              | 0.234          | 555                                  | 10 × 12.5<br>▲ 8 × 15                 | 0.090<br>0.085          | 0.18<br>0.17            | 760<br>730                           |
|           |           |                          |                    |                |                                      |                                       |                         |                         |                                      |
| 470       | 471       | 10 × 12.5                | 0.090              | 0.18           | 760                                  | 10 × 16                               | 0.068                   | 0.136                   | 1050                                 |
|           |           | ▲ 8 × 15                 | 0.085              | 0.17           | 730                                  | ▲ 8 × 20                              | 0.065                   | 0.13                    | 995                                  |
| 560       | 561       |                          |                    |                | 10 × 20                              | 0.052                                 | 0.104                   | 1220                    |                                      |
| 680       | 681       | 10 × 16                  | 0.068              | 0.136          | 1050                                 | 10 × 20                               | 0.052                   | 0.104                   | 1220                                 |
|           |           | ▲ 8 × 20                 | 0.065              | 0.13           | 995                                  |                                       |                         |                         |                                      |
| 820       | 821       | 10 × 20                  | 0.052              | 0.104          | 1220                                 | 10 × 25                               | 0.045                   | 0.090                   | 1440                                 |
| 1000      | 102       | 10 × 20                  | 0.052              | 0.104          | 1220                                 | 12.5 × 20<br>▲ 10 × 31.5              | 0.038<br>0.035          | 0.076<br>0.070          | 1660<br>1815                         |
| 1200      | 122       | 10 × 25                  | 0.045              | 0.090          | 1440                                 |                                       |                         |                         |                                      |
| 1500      | 152       | 12.5 × 20                | 0.038              | 0.076          | 1655                                 | 16 × 25                               | 0.022                   | 0.044                   | 2555                                 |
|           |           | ▲ 10 × 31.5              | 0.035              | 0.070          | 1815                                 | ▲ 12.5 × 25                           | 0.030                   | 0.060                   | 1950                                 |
| 1800      | 182       |                          |                    |                |                                      | 12.5 × 31.5<br>▲ 16 × 20              | 0.025<br>0.029          | 0.050<br>0.058          | 2310<br>2210                         |
|           |           |                          |                    |                |                                      |                                       |                         |                         |                                      |
| 2200      | 222       | 12.5 × 25                | 0.030              | 0.060          | 1945                                 | 16 × 25<br>▲ 18 × 20<br>※ 12.5 × 35.5 | 0.022<br>0.028<br>0.022 | 0.044<br>0.056<br>0.044 | 2555<br>2490<br>2510                 |
|           |           |                          |                    |                |                                      |                                       |                         |                         |                                      |
|           |           |                          |                    |                |                                      |                                       |                         |                         |                                      |
| 2700      | 272       | 12.5 × 31.5<br>▲ 16 × 20 | 0.025<br>0.029     | 0.050<br>0.058 | 2310<br>2210                         | 16 × 25                               | 0.022                   | 0.044                   | 2555                                 |
|           |           |                          |                    |                |                                      |                                       |                         |                         |                                      |
| 3300      | 332       | 16 × 25                  | 0.022              | 0.044          | 2555                                 | 16 × 31.5                             | 0.018                   | 0.036                   | 3010                                 |
|           |           | ▲ 12.5 × 35.5            | 0.022              | 0.044          | 2510                                 | ▲ 18 × 25                             | 0.020                   | 0.040                   | 2740                                 |
| 3900      | 392       | 16 × 25                  | 0.022              | 0.044          | 2560                                 | 16 × 35.5                             | 0.016                   | 0.032                   | 3150                                 |
|           |           | ▲ 18 × 20                | 0.028              | 0.056          | 2490                                 | ▲ 18 × 31.5                           | 0.016                   | 0.032                   | 3635                                 |
| 4700      | 472       | 16 × 31.5                | 0.018              | 0.036          | 3010                                 | 18 × 35.5                             | 0.015                   | 0.030                   | 3680                                 |
|           |           | ▲ 18 × 25                | 0.020              | 0.040          | 2740                                 |                                       |                         |                         |                                      |
| 5600      | 562       | 16 × 35.5                | 0.016              | 0.032          | 3150                                 |                                       |                         |                         |                                      |
|           |           | ▲ 18 × 31.5              | 0.016              | 0.032          | 3635                                 |                                       |                         |                         |                                      |
| 6800      | 682       | 18 × 35.5                | 0.015              | 0.030          | 3680                                 | 18 × 40                               | 0.014                   | 0.028                   | 3800                                 |
| 8200      | 822       | 18 × 35.5                | 0.015              | 0.030          | 3680                                 |                                       |                         |                         |                                      |
| 10000     | 103       | 18 × 40                  | 0.014              | 0.028          | 3800                                 |                                       |                         |                         |                                      |

▲ : In this case, [6] will be put at 12th digit of type numbering system.  
 ※ : In this case, [3] will be put at 12th digit of type numbering system.



## Standard ratings

| V(Code)  |           | 35 (1V)                     |                    |                |  | 50 (1H)                     |                    |                |  |
|----------|-----------|-----------------------------|--------------------|----------------|--|-----------------------------|--------------------|----------------|--|
| Cap.(μF) | Item Code | Case size<br>φD × L<br>(mm) | Impedance (Ω MAX.) |                | Rated ripple<br>(mA rms)<br>105°C / 100kHz | Case size<br>φD × L<br>(mm) | Impedance (Ω MAX.) |                | Rated ripple<br>(mA rms)<br>105°C / 100kHz |
|          |           |                             | 20°C / 100kHz      | -10°C / 100kHz |  |                             | 20°C / 100kHz      | -10°C / 100kHz |  |
| 0.47     | R47       |                             |                    |                |  | 5 × 11                      | 5.00               | 10.0           | 25   |
| 1        | 010       |                             |                    |                |  | 5 × 11                      | 3.50               | 7.00           | 40   |
| 2.2      | 2R2       |                             |                    |                |  | 5 × 11                      | 3.00               | 6.00           | 55   |
| 3.3      | 3R3       |                             |                    |                |  | 5 × 11                      | 2.60               | 5.20           | 65   |
| 4.7      | 4R7       | 5 × 11                      | 0.60               | 1.20           | 180  | 5 × 11                      | 2.30               | 4.60           | 90   |
| 6.8      | 6R8       | 4 × 7                       | 2.00               | 5.00           | 65   |                             |                    |                |  |
| 10       | 100       | 5 × 11                      | 0.60               | 1.20           | 180  | 5 × 11                      | 1.40               | 2.80           | 120  |
|          |           | ▲5 × 7                      | 0.95               | 2.40           | 120  | ▲4 × 11                     | 2.50               | 5.00           | 90   |
| 12       | 120       | 5 × 7                       | 0.95               | 2.40           | 120  |                             |                    |                |  |
| 18       | 180       | 4 × 11                      | 1.30               | 2.60           | 120  | 5 × 11                      | 1.30               | 2.60           | 155  |
| 22       | 220       | 5 × 11                      | 0.60               | 1.20           | 180  | 5 × 11                      | 1.20               | 2.40           | 170  |
| 27       | 270       | 5 × 11                      | 0.60               | 1.20           | 180  | 5 × 15                      | 0.90               | 1.80           | 215  |
|          |           | ▲6.3 × 7                    | 0.45               | 1.20           | 200  |                             |                    |                |  |
| 33       | 330       | 5 × 11                      | 0.60               | 1.20           | 180  | 6.3 × 11                    | 0.43               | 0.86           | 300  |
| 39       | 390       | 5 × 15                      | 0.50               | 1.00           | 235  |                             |                    |                |  |
| 47       | 470       | 6.3 × 11                    | 0.25               | 0.50           | 290  | 6.3 × 11                    | 0.43               | 0.86           | 300  |
| 56       | 560       | 6.3 × 11                    | 0.25               | 0.50           | 290  | 6.3 × 15                    | 0.40               | 0.80           | 360  |
| 82       | 820       | 6.3 × 15                    | 0.23               | 0.46           | 430  | 8 × 11.5                    | 0.234              | 0.468          | 485  |
| 100      | 101       | 8 × 11.5                    | 0.117              | 0.234          | 555  | 8 × 11.5                    | 0.234              | 0.468          | 485  |
| 120      | 121       |                             |                    |                |  | 8 × 15                      | 0.155              | 0.31           | 635  |
|          |           | ▲10 × 12.5                  | 0.162              | 0.324          | 620  |                             |                    |                |  |
| 150      | 151       | 8 × 11.5                    | 0.117              | 0.234          | 555  | 10 × 12.5                   | 0.162              | 0.324          | 615  |
| 180      | 181       |                             |                    |                |  | 8 × 20                      | 0.120              | 0.240          | 860  |
|          |           | ▲10 × 16                    | 0.119              | 0.238          | 850  |                             |                    |                |  |
| 220      | 221       | 10 × 12.5                   | 0.090              | 0.18           | 760  | 10 × 16                     | 0.119              | 0.238          | 850  |
|          |           | ▲8 × 15                     | 0.085              | 0.17           | 730  | ▲10 × 20                    | 0.090              | 0.18           | 1030                                       |
| 270      | 271       |                             |                    |                | 10 × 25                                    | 0.082                       | 0.164              | 1200           |  |
| 330      | 331       | 10 × 16                     | 0.068              | 0.136          | 1050                                       | 10 × 20                     | 0.090              | 0.18           | 1030                                       |
|          |           | ▲8 × 20                     | 0.065              | 0.13           | 995  | ▲10 × 31.5                  | 0.060              | 0.12           | 1610                                       |
| 390      | 391       | 10 × 20                     | 0.052              | 0.104          | 1220                                       | 12.5 × 20                   | 0.063              | 0.126          | 1480                                       |
| 470      | 471       | 10 × 20                     | 0.052              | 0.104          | 1220                                       | 12.5 × 20                   | 0.060              | 0.12           | 1500                                       |
| 560      | 561       | 10 × 25                     | 0.045              | 0.090          | 1440                                       | 12.5 × 25                   | 0.050              | 0.10           | 1832                                       |
| 680      | 681       | 12.5 × 20                   | 0.038              | 0.076          | 1660                                       | 12.5 × 25                   | 0.050              | 0.10           | 1840                                       |
|          |           | ▲10 × 31.5                  | 0.035              | 0.070          | 1815                                       | ▲16 × 20                    | 0.048              | 0.096          | 1840                                       |
| 820      | 821       |                             |                    |                |  | 12.5 × 35.5                 | 0.034              | 0.068          | 2290                                       |
|          |           | ▲18 × 20                    | 0.042              | 0.084          | 2420                                       |                             |                    |                |  |
| 1000     | 102       | 12.5 × 25                   | 0.030              | 0.060          | 1950                                       | 16 × 25                     | 0.034              | 0.068          | 2235                                       |
| 1200     | 122       | 12.5 × 31.5                 | 0.025              | 0.050          | 2310                                       | 16 × 31.5                   | 0.028              | 0.056          | 2700                                       |
|          |           | ▲16 × 20                    | 0.029              | 0.058          | 2210                                       | ▲18 × 25                    | 0.029              | 0.058          | 2610                                       |
| 1500     | 152       | 16 × 25                     | 0.022              | 0.044          | 2555                                       | 16 × 31.5                   | 0.028              | 0.056          | 2700                                       |
|          |           | ▲12.5 × 35.5                | 0.022              | 0.044          | 2510                                       | ▲16 × 35.5                  | 0.025              | 0.050          | 2790                                       |
| 1800     | 182       | 16 × 25                     | 0.022              | 0.044          | 2555                                       | 18 × 31.5                   | 0.025              | 0.050          | 3000                                       |
|          |           | ▲18 × 20                    | 0.028              | 0.056          | 2490                                       |                             |                    |                |  |
| 2200     | 222       | 16 × 31.5                   | 0.018              | 0.036          | 3010                                       | 18 × 35.5                   | 0.023              | 0.046          | 3100                                       |
|          |           | ▲18 × 25                    | 0.020              | 0.040          | 2740                                       |                             |                    |                |  |
| 2700     | 272       | 16 × 35.5                   | 0.016              | 0.032          | 3150                                       |                             |                    |                |  |
|          |           | ▲18 × 31.5                  | 0.016              | 0.032          | 3635                                       |                             |                    |                |  |
| 3300     | 332       | 18 × 35.5                   | 0.015              | 0.030          | 3680                                       |                             |                    |                |  |
| 4700     | 472       | 18 × 40                     | 0.014              | 0.028          | 3800                                       |                             |                    |                |  |

▲ : In this case, [6] will be put at 12th digit of type numbering system.



## Standard ratings

| Cap.(μF) | V(Code)<br>Code | Item          | 63 (1J)                     |                    |                | 100 (2A)                                   |                             |                    |                |  |
|----------|-----------------|---------------|-----------------------------|--------------------|----------------|--|-----------------------------|--------------------|----------------|--|
|          |                 |               | Case size<br>φD × L<br>(mm) | Impedance (Ω MAX.) |                | Rated ripple<br>(mA rms)<br>105°C / 100kHz | Case size<br>φD × L<br>(mm) | Impedance (Ω MAX.) |                | Rated ripple<br>(mA rms)<br>105°C / 100kHz |
|          |                 |               |                             | 20°C / 100kHz      | -10°C / 100kHz |  |                             | 20°C / 100kHz      | -10°C / 100kHz |  |
| 0.47     | R47             |               |                             |                    |                | 5 × 11                                     | 43.0                        | 86.0               | 20             |  |
| 1        | 010             |               |                             |                    |                | 5 × 11                                     | 20.0                        | 40.0               | 30             |  |
| 2.2      | 2R2             |               |                             |                    |                | 5 × 11                                     | 9.80                        | 19.6               | 44             |  |
| 3.3      | 3R3             |               |                             |                    |                | 5 × 11                                     | 6.60                        | 13.2               | 58             |  |
| 4.7      | 4R7             | 5 × 11        | 4.70                        | 9.40               | 68             | 5 × 11                                     | 4.60                        | 9.20               | 74             |  |
| 6.8      | 6R8             | 5 × 11        | 2.50                        | 5.00               | 95             | 5 × 11                                     | 3.50                        | 7.00               | 95             |  |
|          |                 | ▲ 4 × 11      | 3.50                        | 7.00               | 80             |  |                             |                    |                |  |
| 10       | 100             | 5 × 11        | 2.10                        | 4.20               | 110            | 6.3 × 11                                   | 1.80                        | 3.60               | 130            |  |
| 12       | 120             | 5 × 11        | 2.00                        | 4.00               | 145            |  |                             |                    |                |  |
| 15       | 150             | 6.3 × 11      | 1.20                        | 2.40               | 160            | 8 × 11.5                                   | 0.83                        | 1.66               | 180            |  |
| 18       | 180             | 5 × 15        | 1.30                        | 2.60               | 200            | 6.3 × 15                                   | 0.80                        | 1.60               | 200            |  |
| 22       | 220             | 6.3 × 11      | 0.71                        | 1.42               | 250            | 8 × 11.5                                   | 0.68                        | 1.36               | 230            |  |
| 33       | 330             | 6.3 × 11      | 0.71                        | 1.42               | 250            | 10 × 12.5                                  | 0.46                        | 0.92               | 320            |  |
|          |                 | ▲ 8 × 15      |                             |                    |                | 0.45                                       | 0.90                        | 360                |                |  |
| 39       | 390             | 6.3 × 15      | 0.70                        | 1.40               | 330            |  |                             |                    |                |  |
| 47       | 470             | 8 × 11.5      | 0.342                       | 0.684              | 405            | 10 × 16                                    | 0.37                        | 0.74               | 420            |  |
|          |                 |               |                             |                    |                | ▲ 8 × 20                                   | 0.37                        | 0.74               | 420            |  |
| 68       | 680             | 8 × 11.5      | 0.342                       | 0.684              | 405            | 10 × 20                                    | 0.30                        | 0.60               | 490            |  |
| 82       | 820             |               |                             |                    |                | 10 × 25                                    | 0.25                        | 0.50               | 540            |  |
| 100      | 101             | 10 × 12.5     | 0.256                       | 0.512              | 540            | 12.5 × 20                                  | 0.18                        | 0.36               | 580            |  |
|          |                 | ▲ 8 × 15      | 0.23                        | 0.46               | 535            |  |                             |                    |                |  |
| 120      | 121             | 10 × 16       | 0.194                       | 0.388              | 600            |  |                             |                    |                |  |
| 150      | 151             | 10 × 16       | 0.194                       | 0.388              | 660            | 12.5 × 25                                  | 0.13                        | 0.26               | 710            |  |
| 180      | 181             | 10 × 20       | 0.147                       | 0.294              | 890            | 12.5 × 31.5                                | 0.12                        | 0.24               | 790            |  |
|          |                 | ▲ 12.5 × 15   | 0.15                        | 0.30               | 1020           | ▲ 16 × 20                                  | 0.13                        | 0.26               | 750            |  |
| 220      | 221             | 10 × 20       | 0.147                       | 0.294              | 885            | 16 × 25                                    | 0.10                        | 0.20               | 890            |  |
|          |                 | ▲ 10 × 25     | 0.13                        | 0.26               | 1050           | ▲ 18 × 20                                  | 0.11                        | 0.22               | 850            |  |
| 270      | 271             | 16 × 15       | 0.090                       | 0.18               | 1410           |  |                             |                    |                |  |
| 330      | 331             | 12.5 × 20     | 0.085                       | 0.17               | 1290           | 16 × 25                                    | 0.090                       | 0.18               | 1080           |  |
| 390      | 391             | 12.5 × 25     | 0.070                       | 0.14               | 1720           | 18 × 25                                    | 0.083                       | 0.166              | 1260           |  |
|          |                 | ▲ 18 × 15     | 0.086                       | 0.172              | 1690           |  |                             |                    |                |  |
| 470      | 471             | 12.5 × 25     | 0.070                       | 0.14               | 1720           | 16 × 31.5                                  | 0.076                       | 0.152              | 1310           |  |
|          |                 | ▲ 12.5 × 31.5 | 0.055                       | 0.11               | 2090           |  |                             |                    |                |  |
| 560      | 561             | ※ 16 × 20     | 0.059                       | 0.118              | 1770           | 18 × 31.5                                  | 0.068                       | 0.136              | 1370           |  |
|          |                 |               |                             |                    |                |  |                             |                    |                |  |
| 680      | 681             | 16 × 25       | 0.050                       | 0.10               | 2160           | 16 × 35.5                                  | 0.064                       | 0.128              | 1410           |  |
|          |                 | ▲ 12.5 × 35.5 | 0.047                       | 0.094              | 2270           |  |                             |                    |                |  |
|          |                 | ※ 18 × 20     | 0.055                       | 0.11               | 2290           |  |                             |                    |                |  |
| 820      | 821             | 16 × 31.5     | 0.043                       | 0.086              | 2670           |  |                             |                    |                |  |
|          |                 | ▲ 18 × 25     | 0.043                       | 0.086              | 2590           |  |                             |                    |                |  |
| 1000     | 102             | 16 × 31.5     | 0.043                       | 0.086              | 2770           | 18 × 40                                    | 0.047                       | 0.094              | 1520           |  |
|          |                 | ▲ 16 × 35.5   | 0.036                       | 0.072              | 2770           |  |                             |                    |                |  |
| 1200     | 122             | 18 × 31.5     | 0.032                       | 0.064              | 2950           |  |                             |                    |                |  |
| 1500     | 152             | 18 × 35.5     | 0.030                       | 0.060              | 3100           |  |                             |                    |                |  |
| 2200     | 222             | 18 × 40       | 0.028                       | 0.056              | 3200           |  |                             |                    |                |  |

▲ : In this case, [6] will be put at 12th digit of type numbering system.  
 ※ : In this case, [3] will be put at 12th digit of type numbering system.

| Cap. (μF) | V(Code)<br>Code | 160         |      | 200       |      | 250         |      | 315       |     | 350         |     | 400         |     | 450         |             |
|-----------|-----------------|-------------|------|-----------|------|-------------|------|-----------|-----|-------------|-----|-------------|-----|-------------|-------------|
|           |                 | 2C          |      | 2D        |      | 2E          |      | 2F        |     | 2V          |     | 2G          |     | 2W          |             |
| 0.47      | R47             | 6.3 × 11    | 12   | 6.3 × 11  | 12   | 6.3 × 11    | 12   | 8 × 11.5  | 11  | 8 × 11.5    | 11  |             |     |             |             |
| 1         | 010             | 6.3 × 11    | 17   | 6.3 × 11  | 17   | 6.3 × 11    | 17   | 8 × 11.5  | 16  | 10 × 12.5   | 17  | 10 × 12.5   | 16  | 10 × 12.5   | 18          |
| 2.2       | 2R2             | 6.3 × 11    | 25   | 6.3 × 11  | 25   | 8 × 11.5    | 29   | 10 × 12.5 | 28  | 10 × 16     | 31  | 10 × 16     | 27  | 10 × 20     | 29          |
| 3.3       | 3R3             | 8 × 11.5    | 36   | 8 × 11.5  | 36   | 10 × 12.5   | 42   | 10 × 12.5 | 34  | 10 × 16     | 38  | 10 × 20     | 36  | 12.5 × 20   | 41          |
| 4.7       | 4R7             | 8 × 11.5    | 43   | 10 × 12.5 | 50   | 10 × 12.5   | 50   | 10 × 16   | 45  | 10 × 20     | 49  | 10 × 20     | 43  | 12.5 × 20   | 49          |
| 10        | 100             | 10 × 12.5   | 70   | 10 × 16   | 80   | 10 × 20     | 88   | 10 × 20   | 72  | 12.5 × 20   | 82  | 12.5 × 25   | 72  | 16 × 25     | 75          |
| 22        | 220             | 10 × 20     | 130  | 10 × 20   | 140  | 12.5 × 25   | 155  | 12.5 × 25 | 120 | 16 × 25     | 130 | 16 × 25     | 110 | 16 × 31.5   | 115         |
| 33        | 330             | 12.5 × 20   | 180  | 12.5 × 25 | 190  | 12.5 × 25   | 190  | 16 × 25   | 155 | 16 × 31.5   | 160 | 16 × 31.5   | 140 | ● 18 × 35.5 | 145         |
| 47        | 470             | 12.5 × 25   | 220  | 12.5 × 25 | 220  | 16 × 25     | 230  | 16 × 35.5 | 190 | ● 18 × 35.5 | 200 | ● 18 × 35.5 | 170 | 20 × 40     | 175         |
| 100       | 101             | 16 × 25     | 330  | 16 × 31.5 | 335  | ● 18 × 35.5 | 340  | Δ 18 × 40 | 285 | 20 × 40     | 290 | 22 × 50     | 350 | 25 × 50     | 350         |
| 220       | 221             | ● 18 × 35.5 | 500  | Δ 18 × 40 | 515  | 20 × 40     | 525  | 22 × 50   | 540 | 25 × 50     | 550 |             |     |             |             |
| 330       | 331             | 20 × 40     | 900  | 22 × 40   | 1100 | 22 × 50     | 1150 |           |     |             |     |             |     |             |             |
| 470       | 471             | 22 × 50     | 1200 | 22 × 50   | 1310 | 25 × 50     | 1350 |           |     |             |     |             |     |             | Case size ※ |

※ Rated Ripple (mA rms) at 105°C 120Hz  
 Size 20 × 31 is available for capacitors marked " ● "  
 Size 20 × 35 is available for capacitors marked " Δ "  
 In this case, [6] will be put at 12th digit of type numbering system.