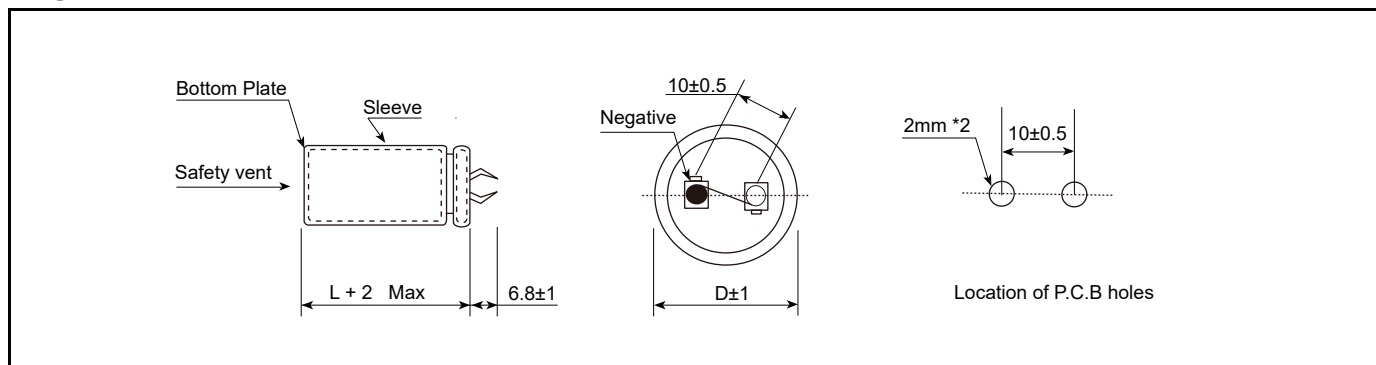


| Items                                                              | Characteristics                                                    |                                           |    |       |    |       |    |              |     |         |         |         |
|--------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------|----|-------|----|-------|----|--------------|-----|---------|---------|---------|
| Operating temperature range                                        | -40~+105℃                                                          |                                           |    |       |    |       |    | -25~+105℃    |     |         |         |         |
| Rated voltage range                                                | 10V~100V DC                                                        |                                           |    |       |    |       |    | 160V~500V DC |     |         |         |         |
| Nominal capacitance tolerance                                      | 47μF~56000μF                                                       |                                           |    |       |    |       |    |              |     |         |         |         |
| Capacitance tolerance                                              | ±20% (120Hz·20℃)                                                   |                                           |    |       |    |       |    |              |     |         |         |         |
| leakage current(20℃)                                               | I≤3√CV after 5minute                                               |                                           |    |       |    |       |    |              |     |         |         |         |
|                                                                    | I: Leakage current   C: Nominal capacitance   V: Rated voltage     |                                           |    |       |    |       |    |              |     |         |         |         |
| Dissipation factor<br>(120Hz·20℃)                                  | Less than the value under table (%)                                |                                           |    |       |    |       |    |              |     |         |         |         |
|                                                                    | Cap(uf)\Rated voltage(V)                                           | 10~16                                     |    | 25~35 |    | 50~63 |    | 80~100       |     | 160~250 |         | 315~500 |
|                                                                    | 47~390                                                             | —                                         |    | —     |    | —     |    | 15           |     | 15      |         | 20      |
|                                                                    | 470~3900                                                           | 25                                        |    | 20    |    | 20    |    | 20           |     | 15      |         | 20      |
|                                                                    | 4700~8200                                                          | 35                                        |    | 30    |    | 30    |    | 25           |     | —       |         | —       |
|                                                                    | 10000~22000                                                        | 40                                        |    | 35    |    | 30    |    | —            |     | —       |         | —       |
|                                                                    | 27000~47000                                                        | 45                                        |    | 40    |    | 35    |    | —            |     | —       |         | —       |
|                                                                    | 56000~68000                                                        | 50                                        |    | 45    |    | —     |    | —            |     | —       |         | —       |
| Low temperature characteristics<br>(Impedance ratio max. at 120Hz) | Rated voltage(v)                                                   | 10                                        | 16 | 25    | 35 | 50    | 63 | 80           | 100 | 160~250 | 315~450 |         |
|                                                                    | Z—25℃/Z+20℃                                                        | 5                                         | 5  | 4     | 4  | 4     | 3  | 3            | 3   | 6       | 8       |         |
|                                                                    | Z—40℃/Z+20℃                                                        | 15                                        | 15 | 15    | 15 | 15    | 15 | 15           | 12  | —       | —       |         |
| Endurance                                                          | After applying rated for 2000 hours at 105℃ then resumed 16 hours: |                                           |    |       |    |       |    |              |     |         |         |         |
|                                                                    | Capacitance change                                                 | Within ±20% of the initial measured value |    |       |    |       |    |              |     |         |         |         |
|                                                                    | tgδ                                                                | ≤200% of the initial specified value      |    |       |    |       |    |              |     |         |         |         |
|                                                                    | Leakage current                                                    | ≤initial specified value                  |    |       |    |       |    |              |     |         |         |         |
| Shelf life                                                         | After storage for 1000 hours at 105℃ then resumed 16 hours:        |                                           |    |       |    |       |    |              |     |         |         |         |
|                                                                    | Capacitance change                                                 | Within ±20% of the initial measured value |    |       |    |       |    |              |     |         |         |         |
|                                                                    | tgδ                                                                | ≤200% of the initial specified value      |    |       |    |       |    |              |     |         |         |         |
|                                                                    | Leakage current                                                    | ≤initial specified value                  |    |       |    |       |    |              |     |         |         |         |

## Diagram of Dimensions(mm)



## Multiplier for Ripple Current vs. Frequency:

| CAP(μF)\Hz | 50(60) | 120  | 1K   | 10-50K |
|------------|--------|------|------|--------|
| 10-100V    | 0.90   | 1.00 | 1.15 | 1.25   |
| 160-250V   | 0.80   | 1.00 | 1.25 | 1.47   |
| 315-500V   | 0.80   | 1.00 | 1.30 | 1.47   |

## Multiplier for Ripple Current vs. Temperature:

| Temperature℃ | 45  | 60  | 85  | 95   | 105 |
|--------------|-----|-----|-----|------|-----|
| Factor       | 2.1 | 1.9 | 1.4 | 1.25 | 1   |

## Standard Ratings

| WV(Code) |      | 10V(010) |      | 16V(016) |      | 25V(025) |      | 35V(035) |      | 50V(050) |      |
|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
| C(μf)    | Code | φD×L     | R.C. | φD×L     | R.C. | φD×L     | R.C. | φD×L     | R.C. | φD×L     | R.C. |
| 1500     | 158  |          |      |          |      |          |      |          |      | 20×25    | 1.15 |
| 1800     | 188  |          |      |          |      |          |      |          |      | 20×30    | 1.39 |
|          |      |          |      |          |      |          |      |          |      | 22×25    | 1.34 |
| 2200     | 228  |          |      |          |      |          |      |          |      | 20×35    | 1.60 |
|          |      |          |      |          |      |          |      |          |      | 22×30    | 1.60 |
| 2700     | 278  |          |      |          |      |          |      | 20×25    | 1.29 | 20×35    | 1.73 |
|          |      |          |      |          |      |          |      |          |      | 22×30    | 1.70 |
|          |      |          |      |          |      |          |      |          |      | 25×25    | 1.70 |
| 3300     | 338  |          |      |          |      |          |      | 20×30    | 1.57 | 20×40    | 1.97 |
|          |      |          |      |          |      |          |      | 22×25    | 1.45 | 22×35    | 1.97 |
|          |      |          |      |          |      |          |      |          |      | 25×30    | 1.88 |
| 3900     | 398  |          |      |          |      | 20×25    | 1.58 | 20×35    | 1.78 | 22×40    | 2.22 |
|          |      |          |      |          |      |          |      | 22×30    | 1.69 | 25×30    | 2.20 |
|          |      |          |      |          |      |          |      |          |      | 30×25    | 1.95 |
| 4700     | 478  |          |      |          |      | 20×30    | 1.65 | 20×40    | 2.02 | 22×45    | 2.43 |
|          |      |          |      |          |      | 22×25    | 1.61 | 22×35    | 2.02 | 25×35    | 2.43 |
|          |      |          |      |          |      |          |      | 25×25    | 1.62 | 30×30    | 2.25 |
| 5600     | 568  |          |      | 20×25    | 1.68 | 20×35    | 1.85 | 22×35    | 2.13 | 22×50    | 2.75 |
|          |      |          |      |          |      | 22×30    | 1.8  | 25×30    | 2.00 | 25×40    | 2.72 |
|          |      |          |      |          |      |          |      |          |      | 30×30    | 2.64 |
| 6800     | 688  | 20×25    | 1.31 | 20×30    | 1.80 | 20×40    | 2.11 | 22×40    | 2.41 | 25×45    | 3.30 |
|          |      |          |      | 22×25    | 1.75 | 22×35    | 2.09 | 25×35    | 2.31 | 30×35    | 3.30 |
|          |      |          |      |          |      | 25×25    | 1.87 | 30×25    | 2.31 | 35×30    | 3.25 |

Permit ripple current : (Arms, 105℃, 120HZ)

Case size: φD×L (mm)

## Standard Ratings

| WV(Code) |      | 10V(010) |      | 16V(016) |      | 25V(025) |      | 35V(035) |      | 50V(050) |      |
|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
| C(uf)    | Code | φD×L     | R.C. | φD×L     | R.C. | φD×L     | R.C. | φD×L     | R.C. | φD×L     | R.C. |
| 8200     | 828  | 20×30    | 1.59 | 20×35    | 2.08 | 22×40    | 2.31 | 22×50    | 2.85 | 30×40    | 3.60 |
|          |      |          |      | 22×30    | 2.00 | 25×30    | 2.34 | 25×40    | 2.73 | 35×35    | 3.6  |
|          |      |          |      |          |      | 30×25    | 2.16 | 30×30    | 2.75 |          |      |
| 10000    | 109  | 20×30    | 1.88 | 20×40    | 2.15 | 22×45    | 2.65 | 25×45    | 3.05 | 30×50    | 4.05 |
|          |      | 22×25    | 1.77 | 22×30    | 2.10 | 25×35    | 2.61 | 30×35    | 3.05 | 35×40    | 4.04 |
|          |      |          |      | 25×25    | 2.05 | 30×30    | 2.61 |          |      |          |      |
| 12000    | 129  | 20×35    | 2.18 | 30×25    | 2.30 | 22×50    | 2.80 | 25×50    | 3.37 | 35×45    | 4.56 |
|          |      | 22×30    | 2.10 | 22×35    | 2.31 | 25×40    | 2.81 | 30×40    | 3.23 |          |      |
|          |      | 25×25    | 1.94 | 25×30    | 2.30 | 30×30    | 2.74 | 35×30    | 3.19 |          |      |
| 15000    | 159  | 20×40    | 2.27 | 22×40    | 2.68 | 25×45    | 3.27 | 30×45    | 3.72 | 35×50    | 4.77 |
|          |      | 22×35    | 2.23 | 25×35    | 2.58 | 30×35    | 3.13 | 35×35    | 3.67 |          |      |
|          |      | 25×30    | 2.10 | 30×30    | 2.57 | 35×30    | 3.26 |          |      |          |      |
| 18000    | 189  | 22×40    | 2.41 | 22×50    | 3.20 | 30×40    | 3.56 | 35×40    | 4.37 |          |      |
|          |      | 25×30    | 2.34 | 25×40    | 3.16 | 35×35    | 3.84 |          |      |          |      |
|          |      | 30×25    | 2.25 | 30×30    | 2.98 |          |      |          |      |          |      |
| 22000    | 229  | 22×45    | 2.58 | 25×45    | 3.36 | 30×45    | 4.04 | 35×45    | 4.92 |          |      |
|          |      | 25×35    | 2.54 | 30×35    | 3.30 | 35×35    | 3.75 |          |      |          |      |
|          |      | 30×30    | 2.50 | 35×30    | 3.25 |          |      |          |      |          |      |
| 27000    | 279  | 22×50    | 3.17 | 25×50    | 3.85 | 35×45    | 4.74 |          |      |          |      |
|          |      | 25×40    | 3.07 | 30×40    | 3.80 |          |      |          |      |          |      |
|          |      | 30×30    | 2.95 | 35×35    | 3.93 |          |      |          |      |          |      |
| 33000    | 339  | 25×45    | 3.39 | 30×45    | 4.30 | 35×50    | 5.50 |          |      |          |      |
|          |      | 30×35    | 3.33 | 35×35    | 4.27 |          |      |          |      |          |      |
|          |      | 35×30    | 3.21 |          |      |          |      |          |      |          |      |
| 39000    | 399  | 30×40    | 3.70 | 30×50    | 4.81 |          |      |          |      |          |      |
|          |      | 35×35    | 3.68 | 35×40    | 4.80 |          |      |          |      |          |      |
| 47000    | 479  | 30×45    | 4.22 | 35×45    | 5.53 |          |      |          |      |          |      |
|          |      | 35×40    | 4.16 |          |      |          |      |          |      |          |      |
| 56000    | 569  | 35×50    | 5.00 |          |      |          |      |          |      |          |      |

| WV (Code) |      | 63(063) |      | 80(080) |      | 100(100) |      | 160(160) |      | 180(180) |      |
|-----------|------|---------|------|---------|------|----------|------|----------|------|----------|------|
| C(uf)     | Code | φD×L    | R.C. | φD×L    | R.C. | φD×L     | R.C. | φD×L     | R.C. | φD×L     | R.C. |
| 200       | 207  |         |      |         |      | 25×40    | 0.75 |          |      |          |      |
| 220       | 227  |         |      |         |      |          |      |          |      | 20×25    | 0.81 |
| 270       | 277  |         |      |         |      |          |      | 20×25    | 0.87 | 20×30    | 0.95 |
|           |      |         |      |         |      |          |      |          |      | 22×25    | 0.97 |
| 330       | 337  |         |      |         |      |          |      | 20×30    | 1.02 | 20×35    | 1.09 |
|           |      |         |      |         |      |          |      | 22×25    | 1.03 | 22×30    | 1.13 |
| 390       | 397  |         |      |         |      |          |      | 20×35    | 1.15 | 20×35    | 1.28 |
|           |      |         |      |         |      |          |      |          |      | 22×30    | 1.32 |
| 470       | 477  |         |      |         |      |          |      | 22×30    | 1.17 | 25×25    | 1.33 |
|           |      |         |      |         |      |          |      | 20×40    | 1.25 | 20×40    | 1.34 |
|           |      |         |      |         |      |          |      | 22×30    | 1.28 | 22×35    | 1.39 |
|           |      |         |      |         |      |          |      | 25×25    | 1.29 | 25×30    | 1.43 |

Permit ripple current : (Arms, 105℃, 120HZ)

Case size: φD×L (mm)

## Standard Ratings

| WV (Code) |      | 63(063) |      | 80(080) |      | 100(100) |      | 160(160) |      | 180(180) |      |
|-----------|------|---------|------|---------|------|----------|------|----------|------|----------|------|
| C(uf)     | Code | φD×L    | R.C. | φD×L    | R.C. | φD×L     | R.C. | φD×L     | R.C. | φD×L     | R.C. |
| 560       | 567  |         |      |         |      | 20×25    | 0.95 | 22×35    | 1.46 | 22×40    | 1.65 |
|           |      |         |      |         |      |          |      | 25×30    | 1.49 | 25×30    | 1.53 |
|           |      |         |      |         |      |          |      |          |      | 30×25    | 1.56 |
| 680       | 687  |         |      |         |      | 20×30    | 1.15 | 22×40    | 1.64 | 22×45    | 1.76 |
|           |      |         |      |         |      | 22×25    | 1.09 | 25×35    | 1.70 | 25×35    | 1.76 |
|           |      |         |      |         |      |          |      | 30×25    | 1.63 | 30×30    | 1.74 |
| 820       | 827  |         |      | 20×25   | 1.04 | 20×35    | 1.31 | 22×45    | 1.85 | 22×50    | 1.97 |
|           |      |         |      |         |      | 22×30    | 1.32 | 25×40    | 1.92 | 25×40    | 1.99 |
|           |      |         |      |         |      |          |      | 30×30    | 1.91 | 30×30    | 1.93 |
| 1000      | 108  | 20×25   | 1.10 | 20×30   | 1.24 | 20×35    | 1.43 | 25×45    | 2.17 | 25×45    | 2.24 |
|           |      |         |      | 22×25   | 1.19 | 22×30    | 1.47 | 30×35    | 2.19 | 30×35    | 2.24 |
|           |      |         |      |         |      | 25×25    | 1.45 |          |      | 35×30    | 2.20 |
| 1200      | 128  | 20×30   | 1.20 | 20×35   | 1.43 | 20×40    | 1.61 | 25×50    | 2.43 | 30×40    | 2.53 |
|           |      | 22×25   | 1.20 | 22×30   | 1.44 | 22×35    | 1.69 | 30×40    | 2.48 |          |      |
|           |      |         |      |         |      | 25×30    | 1.68 | 35×30    | 2.25 | 35×35    | 2.54 |
| 1500      | 158  | 20×35   | 1.47 | 20×35   | 1.57 | 22×40    | 1.97 | 30×45    | 2.82 | 30×50    | 3.03 |
|           |      | 22×30   | 1.47 | 22×30   | 1.59 | 25×35    | 1.98 | 35×35    | 2.62 | 35×40    | 2.91 |
|           |      |         |      | 25×25   | 1.59 | 30×25    | 1.95 |          |      |          |      |
| 1800      | 188  | 20×35   | 1.58 | 20×40   | 1.77 | 22×45    | 2.23 | 30×50    | 3.13 | 35×45    | 3.25 |
|           |      | 22×30   | 1.58 | 22×35   | 1.79 | 25×40    | 2.20 | 35×40    | 2.97 |          |      |
|           |      | 25×25   | 1.52 | 25×30   | 1.71 | 30×30    | 2.20 |          |      |          |      |
| 2200      | 228  | 20×40   | 1.80 | 22×40   | 2.03 | 25×45    | 2.53 | 35×45    | 3.34 | 35×50    | 3.62 |
|           |      | 22×35   | 1.82 | 25×35   | 1.98 | 30×35    | 2.55 |          |      |          |      |
|           |      | 25×30   | 1.75 | 30×25   | 1.98 | 35×30    | 2.50 |          |      |          |      |
| 2700      | 278  | 22×40   | 2.07 | 22×45   | 2.39 | 25×50    | 2.82 |          |      |          |      |
|           |      | 25×35   | 2.11 | 25×40   | 2.35 | 30×40    | 2.86 |          |      |          |      |
|           |      | 30×25   | 1.72 | 30×30   | 2.35 | 35×35    | 2.89 |          |      |          |      |
| 3300      | 338  | 22×45   | 2.33 | 25×45   | 2.64 | 30×45    | 3.30 |          |      |          |      |
|           |      | 25×35   | 2.27 | 30×35   | 2.61 |          |      |          |      |          |      |
|           |      | 30×30   | 2.24 | 35×30   | 2.47 | 35×35    | 3.25 |          |      |          |      |
| 3900      | 398  | 25×40   | 2.51 | 25×50   | 2.92 | 30×50    | 3.60 |          |      |          |      |
|           |      |         |      | 30×40   | 2.82 |          |      |          |      |          |      |
|           |      | 30×35   | 2.55 | 35×30   | 2.97 | 35×40    | 3.67 |          |      |          |      |
| 4700      | 478  | 25×50   | 2.91 | 30×45   | 3.34 | 35×45    | 3.80 |          |      |          |      |
|           |      | 30×40   | 2.86 |         |      |          |      |          |      |          |      |
|           |      | 35×30   | 2.80 | 35×35   | 3.38 |          |      |          |      |          |      |
| 5600      | 568  | 30×40   | 3.22 | 30×50   | 3.80 | 35×50    | 4.05 |          |      |          |      |
|           |      | 35×35   | 3.20 | 35×40   | 3.80 |          |      |          |      |          |      |
| 6800      | 688  | 30×50   | 3.65 | 35×45   | 3.90 |          |      |          |      |          |      |
|           |      | 35×40   | 3.65 |         |      |          |      |          |      |          |      |
| 8200      | 828  | 35×45   | 4.04 | 35×50   | 4.20 |          |      |          |      |          |      |
| 10000     | 109  | 35×50   | 4.48 |         |      |          |      |          |      |          |      |

Permit ripple current : (Arms, 105℃, 120HZ)

Case size: φD×L (mm)

## Standard Ratings

| WV(Code) |      | 200V(200) |      | 220V(220) |      | 250V(250) |      | 315V(315) |      | 350V(350) |      |
|----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|
| C(uf)    | Code | φD×L      | R.C. | φD×L      | R.C. | φD×L      | R.C. | φD×L      | R.C. | φD×L      | R.C. |
| 68       | 686  |           |      |           |      |           |      |           |      | 20×25     | 0.41 |
| 82       | 826  |           |      |           |      |           |      | 20×25     | 0.39 | 20×30     | 0.45 |
| 100      | 107  |           |      |           |      |           |      | 20×30     | 0.45 | 20×30     | 0.51 |
|          |      |           |      |           |      |           |      |           |      | 22×25     | 0.53 |
| 120      | 127  |           |      |           |      |           |      | 20×30     | 0.54 | 20×35     | 0.59 |
|          |      |           |      |           |      |           |      |           |      | 22×30     | 0.61 |
| 150      | 157  |           |      |           |      | 20×25     | 0.71 | 20×35     | 0.64 | 20×40     | 0.70 |
|          |      |           |      |           |      |           |      | 22×30     | 0.66 | 22×35     | 0.73 |
|          |      |           |      |           |      |           |      | 25×25     | 0.65 | 25×30     | 0.73 |
| 180      | 187  |           |      | 20×25     | 0.81 | 20×30     | 0.82 | 20×40     | 0.75 | 22×40     | 0.83 |
|          |      |           |      |           |      |           |      | 22×35     | 0.78 | 25×30     | 0.80 |
|          |      |           |      |           |      | 22×25     | 0.84 | 25×30     | 0.71 | 30×25     | 0.81 |
| 220      | 227  | 20×25     | 0.83 | 20×30     | 0.94 | 20×35     | 0.95 | 22×40     | 0.89 | 22×45     | 0.94 |
|          |      |           |      | 22×25     | 0.94 | 22×30     | 0.97 | 25×30     | 0.85 | 25×35     | 0.92 |
|          |      |           |      |           |      | 25×25     | 0.99 | 30×25     | 0.83 | 30×30     | 0.98 |
| 270      | 277  | 20×30     | 0.97 | 20×35     | 1.10 | 20×40     | 1.08 | 22×45     | 1.01 | 22×50     | 1.07 |
|          |      | 22×25     | 0.99 | 22×30     | 1.09 | 22×35     | 1.11 | 25×35     | 0.98 | 25×40     | 1.05 |
|          |      |           |      |           |      | 25×30     | 1.15 | 30×30     | 1.01 | 30×30     | 1.03 |
| 330      | 337  | 20×35     | 1.17 | 20×40     | 1.18 | 22×40     | 1.26 | 22×50     | 1.14 | 25×45     | 1.24 |
|          |      | 22×30     | 1.20 | 22×35     | 1.24 | 25×30     | 1.26 | 25×40     | 1.12 | 30×35     | 1.24 |
|          |      | 25×25     | 1.20 | 25×25     | 1.14 | 30×25     | 1.31 | 30×35     | 1.21 | 35×30     | 1.18 |
| 390      | 397  | 20×40     | 1.27 | 20×45     | 1.33 | 22×45     | 1.41 | 25×45     | 1.31 | 25×50     | 1.38 |
|          |      | 22×35     | 1.30 | 22×35     | 1.30 | 25×35     | 1.42 | 30×35     | 1.30 | 30×40     | 1.39 |
|          |      | 25×25     | 1.34 | 25×30     | 1.26 | 30×30     | 1.50 | 35×30     | 1.23 | 35×35     | 1.39 |
| 470      | 477  | 22×40     | 1.44 | 22×40     | 1.41 | 22×50     | 1.58 | 30×40     | 1.53 | 30×45     | 1.57 |
|          |      | 25×30     | 1.44 | 25×30     | 1.39 | 25×40     | 1.61 |           |      |           |      |
|          |      | 30×25     | 1.48 | 30×25     | 1.37 | 30×30     | 1.61 |           |      |           |      |
| 560      | 567  | 22×45     | 1.60 | 22×45     | 1.60 | 25×45     | 1.80 | 30×45     | 1.65 | 30×50     | 1.75 |
|          |      |           |      | 25×35     | 1.56 | 30×35     | 1.84 | 35×40     | 1.66 | 35×40     | 1.69 |
|          |      | 25×35     | 1.60 | 30×30     | 1.61 |           |      |           |      |           |      |
|          |      | 30×30     | 1.60 | 35×25     | 1.52 |           |      |           |      |           |      |
| 680      | 687  | 22×50     | 1.75 | 25×40     | 1.75 | 25×50     | 2.03 | 35×45     | 1.96 | 35×45     | 1.96 |
|          |      | 25×30     | 1.76 | 30×35     | 1.76 | 30×40     | 2.09 |           |      |           |      |
|          |      | 30×30     | 1.74 | 35×30     | 1.72 | 35×30     | 1.96 |           |      |           |      |
| 820      | 827  | 25×45     | 2.10 | 25×45     | 1.97 | 30×45     | 2.35 | 35×50     | 2.19 |           |      |
|          |      | 30×35     | 2.11 | 30×40     | 2.06 | 35×35     | 2.26 |           |      |           |      |
|          |      | 35×30     | 2.10 | 35×30     | 1.95 |           |      |           |      |           |      |
| 1000     | 108  | 25×50     | 2.36 | 30×45     | 2.44 | 30×50     | 2.64 |           |      |           |      |
|          |      | 30×40     | 2.40 | 35×35     | 2.20 | 35×40     | 2.57 |           |      |           |      |
|          |      | 35×35     | 2.30 |           |      | 30×40     | 2.40 |           |      |           |      |
| 1200     | 128  | 30×45     | 2.69 | 35×40     | 2.37 | 35×45     | 2.88 |           |      |           |      |
|          |      | 35×35     | 2.53 |           |      |           |      |           |      |           |      |

Permit ripple current : (Arms, 105℃, 120HZ)

Case size: φD×L (mm)

## Standard Ratings

| WV(Code) |      | 200V(200) |      | 220V(220) |      | 250V(250) |      | 315V(315) |      | 350V(350) |      |
|----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|
| C(uf)    | Code | φD×L      | R.C. | φD×L      | R.C. | φD×L      | R.C. | φD×L      | R.C. | φD×L      | R.C. |
| 1500     | 158  | 35×40     | 2.97 | 35×45     | 2.64 |           |      |           |      |           |      |
| 1800     | 188  | 35×50     | 3.45 |           |      |           |      |           |      |           |      |
| 2200     | 228  | 30×50     | 3.31 |           |      |           |      |           |      |           |      |

| WV(Code) |      | 385V(385) |      | 400V(400) |      | 420V(420) |      | 450V(450) |      | 500V(500) |      |
|----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|
| C(uf)    | Code | φD×L      | R.C. | φD×L      | R.C. | φD×L      | R.C. | φD×L      | R.C. | φD×L      | R.C. |
| 47       | 476  |           |      |           |      |           |      | 20×25     | 0.36 | 22×25     | 0.35 |
| 56       | 566  | 20×25     | 0.37 | 20×25     | 0.40 | 20×25     | 0.40 | 20×30     | 0.41 | 22×26     | 0.38 |
|          |      |           |      |           |      |           |      | 22×25     | 0.42 |           |      |
| 68       | 686  | 20×30     | 0.44 | 20×30     | 0.48 | 20×30     | 0.48 | 20×35     | 0.47 | 22×30     | 0.45 |
|          |      | 22×25     | 0.45 | 22×25     | 0.49 | 22×25     | 0.5  | 22×30     | 0.50 |           |      |
|          |      |           |      |           |      |           |      | 25×25     | 0.50 |           |      |
| 82       | 826  | 20×30     | 0.50 | 20×30     | 0.54 | 20×35     | 0.53 | 20×40     | 0.53 | 22×35     | 0.54 |
|          |      | 22×30     | 0.52 | 22×30     | 0.56 | 22×30     | 0.56 | 22×35     | 0.56 |           |      |
|          |      |           |      |           |      | 25×25     | 0.56 | 25×30     | 0.57 |           |      |
| 100      | 107  | 20×35     | 0.56 | 20×35     | 0.60 | 20×35     | 0.61 | 22×40     | 0.64 | 22×36     | 0.56 |
|          |      | 22×30     | 0.58 | 22×30     | 0.62 | 22×30     | 0.67 | 25×30     | 0.69 |           |      |
|          |      | 25×25     | 0.57 | 25×25     | 0.61 | 25×25     | 0.67 | 30×25     | 0.69 |           |      |
| 120      | 127  | 20×40     | 0.66 | 20×40     | 0.71 | 20×45     | 0.71 | 22×45     | 0.72 | 22×40     | 0.64 |
|          |      | 22×35     | 0.68 | 22×25     | 0.73 | 22×35     | 0.73 |           |      |           |      |
|          |      | 25×30     | 0.68 | 22×35     | 0.73 | 25×30     | 0.72 | 25×35     | 0.71 |           |      |
|          |      |           |      | 25×30     | 0.73 | 30×25     | 0.75 | 30×30     | 0.77 |           |      |
| 150      | 157  | 22×40     | 0.79 | 22×40     | 0.85 | 22×45     | 0.86 | 22×50     | 0.80 | 25×40     | 0.76 |
|          |      | 25×30     | 0.78 | 25×35     | 0.85 | 25×35     | 0.83 | 25×40     | 0.82 |           |      |
|          |      | 30×25     | 0.75 | 30×25     | 0.79 | 30×25     | 0.83 | 30×30     | 0.85 |           |      |
| 180      | 187  | 22×45     | 0.89 | 22×45     | 0.95 | 22×50     | 1.02 | 25×45     | 0.93 | 30×35     | 0.86 |
|          |      | 25×35     | 0.86 | 25×35     | 0.92 | 25×40     | 0.94 |           |      |           |      |
|          |      | 30×30     | 0.88 | 30×30     | 0.95 | 30×30     | 0.95 | 30×35     | 0.97 |           |      |
|          |      |           |      |           |      | 35×25     | 0.90 |           |      |           |      |
| 220      | 227  | 22×50     | 1.01 | 22×50     | 1.08 | 25×45     | 1.13 | 25×50     | 1.05 | 30×40     | 0.79 |
|          |      | 25×40     | 1.00 | 25×40     | 1.05 | 30×35     | 1.09 | 30×40     | 1.10 |           |      |
|          |      | 30×30     | 1.00 | 30×35     | 1.24 | 35×30     | 1.05 | 35×30     | 1.01 |           |      |
| 270      | 277  | 25×45     | 1.13 | 25×50     | 1.29 | 25×50     | 1.37 | 30×45     | 1.25 | 30×45     | 1.12 |
|          |      | 30×40     | 1.14 | 30×40     | 1.30 | 30×40     | 1.25 |           |      |           |      |
|          |      | 35×30     | 1.10 | 35×30     | 1.18 | 35×35     | 1.25 | 35×35     | 1.26 |           |      |
| 330      | 337  |           |      | 30×40     | 1.43 |           |      | 30×50     | 1.42 |           |      |
|          |      | 30×45     | 1.31 | 30×45     | 1.47 | 30×45     | 1.49 | 35×35     | 1.44 |           |      |
|          |      | 35×35     | 1.32 | 35×35     | 1.41 | 35×35     | 1.42 | 35×40     | 1.44 |           |      |
| 390      | 397  | 30×50     | 1.48 | 30×50     | 1.64 | 30×50     | 1.67 | 35×45     | 1.61 |           |      |
|          |      | 35×40     | 1.48 | 35×40     | 1.59 | 35×40     | 1.61 |           |      |           |      |
| 470      | 477  |           |      |           |      |           |      | 30×45     | 1.85 |           |      |
|          |      | 35×45     | 1.76 | 35×45     | 1.90 | 35×45     | 1.86 | 35×50     | 1.80 |           |      |
| 560      | 567  | 35×50     | 1.95 | 35×50     | 2.09 |           |      | 35×45     | 1.70 |           |      |
| 680      | 687  |           |      |           |      |           |      | 30×50     | 2.25 |           |      |

Permit ripple current : (Arms, 105℃, 120HZ)

Case size: φD×L (mm)