

## Lug/Snap-in Terminal Type(插入/自立型), Wide Temperature(寛温度)

## FEATURES

1. Highly reliable capacitors that withstand under high ripple current.
2. Two or three dimensions with same ratings.
3. Aluminum case designed explosion-proof vent.
4. Best for switching power supplies.



## SPECIFICATIONS

| Item                                       | Performance Characteristics                                                                                                                                                                                                                                                      |           |           |           |                                                                                                  |      |      |      |      |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|-----------|--------------------------------------------------------------------------------------------------|------|------|------|------|
| Operating Temperature Range                | -40 to +105°C                                                                                                                                                                                                                                                                    |           |           |           | -25 to +105°C                                                                                    |      |      |      |      |
| Rated Working Voltage Range                | 10 to 100V                                                                                                                                                                                                                                                                       |           |           |           | 160 to 500V                                                                                      |      |      |      |      |
| Nominal Capacitance Range                  | 47 ~ 56000μF                                                                                                                                                                                                                                                                     |           |           |           |                                                                                                  |      |      |      |      |
| Capacitance Tolerance                      | ±20% (120Hz, +20°C)                                                                                                                                                                                                                                                              |           |           |           |                                                                                                  |      |      |      |      |
| Leakage Current                            | I ≤ 3 √CV (μA)<br>after 5 minutes application of rated working voltage at +20°C                                                                                                                                                                                                  |           |           |           |                                                                                                  |      |      |      |      |
| Dissipation Factor<br>tan δ (120Hz, +20°C) | Working Voltage (V)                                                                                                                                                                                                                                                              | 10        | 16        | 25        | 35                                                                                               | 50   | 63   | 80   | 100  |
|                                            | tan δ (max.)                                                                                                                                                                                                                                                                     | 0.55      | 0.50      | 0.45      | 0.35                                                                                             | 0.30 | 0.30 | 0.25 | 0.20 |
|                                            | Working Voltage (V)                                                                                                                                                                                                                                                              | 160 ~ 220 | 250       | 315 ~ 385 | 400 ~ 500                                                                                        |      |      |      |      |
|                                            | tan δ (max.)                                                                                                                                                                                                                                                                     | 0.15      | 0.15      | 0.15      | 0.20                                                                                             |      |      |      |      |
|                                            | For capacitance value > 33000μF, add following calculated value: $\frac{(\text{rated capacitance}) - 33000\mu\text{F}}{10000\mu\text{F}} \times 0.1$                                                                                                                             |           |           |           |                                                                                                  |      |      |      |      |
| Low Temperature Characteristics            | Impedance ratio max. at 120Hz                                                                                                                                                                                                                                                    |           |           |           |                                                                                                  |      |      |      |      |
|                                            | Working Voltage (V)                                                                                                                                                                                                                                                              | 10        | 16        | 25        | 35                                                                                               | 50   | 63   | 80   | 100  |
|                                            | Z-25°C / Z+20°C                                                                                                                                                                                                                                                                  | 6         | 6         | 6         | 6                                                                                                | 4    | 3    | 3    | 3    |
|                                            | Z-40°C / Z+20°C                                                                                                                                                                                                                                                                  | 15        | 15        | 15        | 10                                                                                               | 8    | 6    | 6    | 6    |
|                                            | Working Voltage (V)                                                                                                                                                                                                                                                              | 160       | 200 ~ 220 | 250       | 315 ~ 385                                                                                        | 400  | 450  | 500  |      |
|                                            | Z-25°C / Z+20°C                                                                                                                                                                                                                                                                  | 8         | 8         | 8         | 8                                                                                                | 8    | 8    | 8    |      |
|                                            | Z-40°C / Z+20°C                                                                                                                                                                                                                                                                  | -         | -         | -         | -                                                                                                | -    | -    | -    |      |
| High Temperature Loading                   | Testing time : 2000 hours                                                                                                                                                                                                                                                        |           |           |           | Post test requirements at +20°C                                                                  |      |      |      |      |
|                                            | Testing temp. : +105°C                                                                                                                                                                                                                                                           |           |           |           | Leakage current : ≤ Initial specified value                                                      |      |      |      |      |
|                                            | Testing condition : Rated DC working voltage with the max. ripple current                                                                                                                                                                                                        |           |           |           | Cap. change : within ±20% of initial measured value<br>tan δ : ≤ 200% of initial specified value |      |      |      |      |
| Shelf Life                                 | At 105°C no voltage applied after 1000 hours and then being stabilized at 20°C the capacitors shall meet the following limits<br>Leakage current : ≤ Initial specified value<br>Cap. change : within ±15% of initial measured value<br>tan δ : ≤ 150% of initial specified value |           |           |           |                                                                                                  |      |      |      |      |
| Others                                     | JIS C - 5101 (IEC 60384 )                                                                                                                                                                                                                                                        |           |           |           |                                                                                                  |      |      |      |      |

## RIPPLE CURRENT MULTIPLIER

| Temperature Coefficient                                                                                                                              |         |      |      |      | Frequency Coefficient                                                                                                                                            |      |      |      |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|----------|
| 1) Maximum rms ripple current at 120Hz, 105°C are given in the table.                                                                                |         |      |      |      | 3) Frequency multiplying factor:                                                                                                                                 |      |      |      |          |
| 2) Temperature multiplying factor:                                                                                                                   |         |      |      |      | If capacitors are used to filter circuits at a frequency other than 120Hz, the maximum ripple current must be multiplied by the figure shown in the table below. |      |      |      |          |
| Where capacitors are operated at temperature other than 105°C, the maximum ripple current must be multiplied by the figure shown in the table below. |         |      |      |      |                                                                                                                                                                  |      |      |      |          |
| Temperature(°C)                                                                                                                                      | 20 ~ 45 | 65   | 85   | 105  | Freq.(Hz)                                                                                                                                                        | 60   | 120  | 1K   | 10 ~ 50K |
| Factor                                                                                                                                               | 2.00    | 1.89 | 1.52 | 1.00 | 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     |

## Lug/Snap-in Terminal Type(插入/自立型), Wide Temperature(寛温度)

## DIMENSIONS

| Voltage (Code) |      | 10V (1A)  |                | 16V (1C)  |                | 25V (1E)  |                | 35V (1V)  |                |
|----------------|------|-----------|----------------|-----------|----------------|-----------|----------------|-----------|----------------|
| Cap.(μF)       | Code | Case Size | Ripple Current | Case Size | Ripple Current | Case Size | Ripple Current | Case Size | Ripple Current |
| 2700           | 278  |           |                |           |                |           |                | 20 x 25   | 1.62           |
| 3300           | 338  |           |                |           |                |           |                | 20 x 30   | 1.94           |
|                |      |           |                |           |                |           |                | 22 x 25   | 1.90           |
| 3900           | 398  |           |                |           |                | 20 x 25   | 1.72           | 20 x 35   | 2.02           |
|                |      |           |                |           |                |           |                | 22 x 30   | 2.00           |
| 4700           | 478  |           |                |           |                | 20 x 30   | 2.04           | 20 x 40   | 2.21           |
|                |      |           |                |           |                |           |                | 22 x 35   | 2.20           |
|                |      |           |                |           |                | 22 x 25   | 2.00           | 25 x 25   | 2.20           |
| 5600           | 568  |           |                | 20 x 25   | 1.89           | 20 x 35   | 2.23           | 22 x 35   | 2.40           |
|                |      |           |                |           |                | 22 x 30   | 2.20           | 25 x 30   | 2.40           |
| 6800           | 688  | 20 x 25   | 1.41           | 20 x 30   | 2.25           | 20 x 40   | 2.72           | 22 x 40   | 2.60           |
|                |      |           |                | 22 x 25   | 2.20           | 22 x 30   | 2.40           | 25 x 35   | 2.60           |
|                |      |           |                |           |                | 25 x 25   | 2.40           | 30 x 25   | 2.78           |
| 8200           | 828  | 20 x 30   | 1.67           | 20 x 35   | 2.43           | 22 x 35   | 2.70           | 22 x 50   | 2.90           |
|                |      |           |                | 22 x 30   | 2.40           | 25 x 30   | 2.70           | 25 x 40   | 2.90           |
|                |      |           |                |           |                | 30 x 25   | 2.70           | 30 x 30   | 2.90           |
| 10000          | 109  | 20 x 30   | 1.88           | 20 x 40   | 2.79           | 22 x 40   | 3.00           | 25 x 45   | 3.20           |
|                |      | 22 x 25   | 1.80           | 22 x 30   | 2.60           | 25 x 35   | 3.00           | 30 x 35   | 3.20           |
|                |      |           |                | 25 x 25   | 2.60           | 30 x 30   | 3.00           |           |                |
| 12000          | 129  | 20 x 35   | 2.23           | 22 x 35   | 2.90           | 22 x 50   | 3.20           | 25 x 50   | 3.50           |
|                |      | 22 x 30   | 2.20           | 25 x 30   | 2.90           | 25 x 40   | 3.20           | 30 x 40   | 3.50           |
|                |      | 25 x 25   | 2.20           | 30 x 25   | 2.90           | 30 x 30   | 3.20           | 35 x 30   | 3.50           |
| 15000          | 159  | 20 x 40   | 2.31           | 22 x 40   | 3.20           | 25 x 45   | 3.60           | 30 x 45   | 3.90           |
|                |      | 22 x 35   | 2.30           | 25 x 35   | 3.20           | 30 x 35   | 3.60           |           |                |
|                |      | 25 x 25   | 2.30           | 30 x 30   | 3.20           | 35 x 30   | 3.60           | 35 x 35   | 3.90           |
| 18000          | 189  | 22 x 40   | 2.52           | 22 x 45   | 3.50           | 30 x 40   | 3.90           | 35 x 40   | 4.51           |
|                |      | 25 x 30   | 2.40           | 25 x 40   | 3.50           |           |                |           |                |
|                |      | 30 x 25   | 2.49           | 30 x 30   | 3.50           | 35 x 35   | 3.90           |           |                |
| 22000          | 229  | 22 x 45   | 2.60           | 25 x 45   | 3.80           | 30 x 45   | 4.30           | 35 x 45   | 5.24           |
|                |      | 25 x 35   | 2.60           | 30 x 35   | 3.80           |           |                |           |                |
|                |      | 30 x 25   | 2.60           | 35 x 30   | 3.80           | 35 x 35   | 4.30           |           |                |
| 27000          | 279  | 22 x 50   | 3.19           | 25 x 50   | 4.20           | 35 x 45   | 4.80           |           |                |
|                |      | 25 x 40   | 3.10           | 30 x 40   | 4.20           |           |                |           |                |
|                |      | 30 x 30   | 3.10           | 35 x 30   | 4.20           |           |                |           |                |
| 33000          | 339  | 25 x 45   | 3.40           | 30 x 45   | 4.70           | 35 x 50   | 5.55           |           |                |
|                |      | 30 x 35   | 3.40           |           |                |           |                |           |                |
|                |      | 35 x 30   | 3.40           | 35 x 35   | 4.70           |           |                |           |                |
| 39000          | 399  | 30 x 40   | 3.79           | 30 x 50   | 5.10           |           |                |           |                |
|                |      | 35 x 30   | 3.70           | 35 x 40   | 5.10           |           |                |           |                |
| 47000          | 479  | 30 x 45   | 4.26           | 35 x 45   | 5.50           |           |                |           |                |
|                |      | 35 x 35   | 4.20           |           |                |           |                |           |                |
| 56000          | 569  | 35 x 40   | 5.00           |           |                |           |                |           |                |

Maximum Allowable Ripple Current (A rms) at 105°C 120Hz

Case Size φD x L(mm)

## Lug/Snap-in Terminal Type(插入/自立型), Wide Temperature(寛温度)

## DIMENSIONS

| Voltage (Code) |      | 50V (1H)  |                | 63V (1J)  |                | 80V (1K)  |                | 100V (2A) |                |
|----------------|------|-----------|----------------|-----------|----------------|-----------|----------------|-----------|----------------|
| Cap.(μF)       | Code | Case Size | Ripple Current | Case Size | Ripple Current | Case Size | Ripple Current | Case Size | Ripple Current |
| 560            | 567  |           |                |           |                |           |                | 20 x 25   | 0.95           |
| 680            | 687  |           |                |           |                |           |                | 20 x 30   | 1.15           |
|                |      |           |                |           |                |           |                | 22 x 25   | 1.09           |
| 820            | 827  |           |                |           |                | 20 x 25   | 1.04           | 20 x 35   | 1.31           |
|                |      |           |                |           |                |           |                | 22 x 30   | 1.40           |
| 1000           | 108  |           |                | 20 x 25   | 1.21           | 20 x 30   | 1.24           | 20 x 35   | 1.43           |
|                |      |           |                |           |                | 22 x 25   | 1.19           | 22 x 30   | 1.47           |
|                |      |           |                |           |                |           |                | 25 x 25   | 1.45           |
| 1200           | 128  |           |                | 20 x 30   | 1.43           | 20 x 35   | 1.43           | 20 x 40   | 1.61           |
|                |      |           |                | 22 x 25   | 1.40           | 22 x 30   | 1.50           | 22 x 35   | 1.69           |
|                |      |           |                |           |                |           |                | 25 x 30   | 1.68           |
| 1500           | 158  | 20 x 25   | 1.29           | 20 x 35   | 1.52           | 20 x 35   | 1.57           | 22 x 40   | 1.97           |
|                |      |           |                | 22 x 30   | 1.50           | 22 x 30   | 1.59           | 25 x 35   | 1.98           |
|                |      |           |                |           |                | 25 x 25   | 1.59           | 30 x 25   | 1.95           |
| 1800           | 188  | 20 x 30   | 1.53           | 20 x 35   | 1.72           | 20 x 40   | 1.77           | 22 x 45   | 2.23           |
|                |      | 22 x 25   | 1.50           | 22 x 30   | 1.70           | 22 x 35   | 1.79           | 25 x 40   | 2.20           |
|                |      |           |                | 25 x 25   | 1.70           | 25 x 30   | 1.71           | 30 x 30   | 2.20           |
| 2200           | 228  | 20 x 35   | 1.72           | 20 x 40   | 2.01           | 22 x 40   | 2.03           | 25 x 45   | 2.53           |
|                |      | 22 x 30   | 1.70           | 22 x 35   | 2.00           | 25 x 35   | 2.10           | 30 x 35   | 2.55           |
|                |      |           |                | 25 x 30   | 2.00           | 30 x 25   | 1.98           | 35 x 30   | 2.60           |
| 2700           | 278  | 20 x 35   | 1.82           | 22 x 40   | 2.20           | 22 x 45   | 2.39           | 25 x 50   | 2.82           |
|                |      | 22 x 30   | 1.80           | 25 x 35   | 2.20           | 25 x 40   | 2.35           | 30 x 40   | 2.86           |
|                |      | 25 x 25   | 1.80           | 30 x 25   | 2.20           | 30 x 30   | 2.35           | 35 x 35   | 2.90           |
| 3300           | 338  | 20 x 40   | 2.01           | 22 x 45   | 2.60           | 25 x 45   | 2.64           | 30 x 45   | 3.30           |
|                |      | 22 x 35   | 2.00           | 25 x 35   | 2.39           | 30 x 35   | 2.61           | 35 x 35   | 3.25           |
|                |      | 25 x 30   | 2.00           | 30 x 30   | 2.50           | 35 x 30   | 2.60           |           |                |
| 3900           | 398  | 22 x 40   | 2.23           |           |                | 25 x 50   | 2.92           |           |                |
|                |      | 25 x 30   | 2.20           | 25 x 40   | 2.57           | 30 x 40   | 2.82           | 30 x 50   | 3.60           |
|                |      | 30 x 25   | 2.20           | 30 x 35   | 2.70           | 35 x 30   | 2.97           | 35 x 40   | 3.67           |
| 4700           | 478  | 22 x 45   | 2.50           | 25 x 50   | 3.00           |           |                |           |                |
|                |      | 25 x 35   | 2.43           | 30 x 40   | 3.00           | 30 x 45   | 3.34           | 35 x 45   | 3.80           |
|                |      | 30 x 30   | 2.50           | 35 x 30   | 3.00           | 35 x 35   | 3.38           |           |                |
| 5600           | 568  | 22 x 50   | 2.80           |           |                |           |                |           |                |
|                |      | 25 x 40   | 2.80           | 30 x 40   | 3.22           | 30 x 50   | 3.80           | 35 x 50   | 4.05           |
|                |      | 30 x 30   | 2.76           | 35 x 35   | 3.30           | 35 x 40   | 3.80           |           |                |
| 6800           | 688  | 25 x 45   | 3.30           |           |                |           |                |           |                |
|                |      | 30 x 35   | 3.30           | 30 x 50   | 3.86           | 35 x 45   | 3.90           |           |                |
|                |      | 35 x 30   | 3.30           | 35 x 40   | 3.84           |           |                |           |                |
| 8200           | 828  | 30 x 40   | 3.71           |           |                |           |                |           |                |
|                |      | 35 x 35   | 3.85           | 35 x 45   | 4.43           | 35 x 50   | 4.20           |           |                |
| 10000          | 109  | 30 x 50   | 4.51           | 35 x 50   | 5.11           |           |                |           |                |
|                |      | 35 x 40   | 4.49           |           |                |           |                |           |                |
| 12000          | 129  | 35 x 45   | 4.56           |           |                |           |                |           |                |
| 15000          | 159  | 35 x 50   | 4.80           |           |                |           |                |           |                |

Maximum Allowable Ripple Current (A rms) at 105°C 120Hz

Case Size φD x L(mm)

## Lug/Snap-in Terminal Type(插入/自立型), Wide Temperature(寛温度)

## DIMENSIONS

| Voltage (Code) |      | 160V (2C) |                | 180V (2P) |                | 200V (2D) |                | 220V (2N) |                |
|----------------|------|-----------|----------------|-----------|----------------|-----------|----------------|-----------|----------------|
| Cap.(μF)       | Code | Case Size | Ripple Current | Case Size | Ripple Current | Case Size | Ripple Current | Case Size | Ripple Current |
| 180            | 187  |           |                |           |                |           |                | 20 x 25   | 0.90           |
| 220            | 227  |           |                | 20 x 25   | 1.00           | 20 x 25   | 1.00           | 20 x 30   | 1.00           |
|                |      |           |                |           |                |           |                | 22 x 25   | 1.00           |
| 270            | 277  | 20 x 25   | 1.10           | 20 x 30   | 1.10           | 20 x 30   | 1.10           | 20 x 35   | 1.15           |
|                |      |           |                | 22 x 25   | 1.00           | 22 x 25   | 1.10           | 22 x 30   | 1.15           |
| 330            | 337  | 20 x 30   | 1.20           | 20 x 30   | 1.20           | 20 x 35   | 1.20           | 20 x 40   | 1.25           |
|                |      | 22 x 25   | 1.20           | 22 x 25   | 1.20           | 22 x 30   | 1.25           | 22 x 35   | 1.25           |
|                |      |           |                |           |                | 25 x 25   | 1.25           | 25 x 25   | 1.25           |
| 390            | 397  | 20 x 35   | 1.42           | 20 x 35   | 1.30           | 20 x 40   | 1.31           | 20 x 45   | 1.40           |
|                |      | 22 x 30   | 1.30           | 22 x 30   | 1.35           | 22 x 30   | 1.35           | 22 x 35   | 1.40           |
|                |      |           |                | 25 x 25   | 1.35           | 25 x 25   | 1.35           | 25 x 30   | 1.40           |
| 470            | 477  | 20 x 40   | 1.34           | 20 x 40   | 1.40           | 22 x 35   | 1.50           | 22 x 40   | 1.51           |
|                |      | 22 x 30   | 1.55           | 22 x 35   | 1.50           | 25 x 30   | 1.50           | 25 x 30   | 1.44           |
|                |      | 25 x 25   | 1.55           | 25 x 30   | 1.50           | 30 x 25   | 1.50           | 30 x 25   | 1.50           |
| 560            | 567  | 22 x 35   | 1.67           | 22 x 40   | 1.67           | 22 x 40   | 1.67           | 22 x 45   | 1.70           |
|                |      | 25 x 30   | 1.67           | 25 x 30   | 1.67           | 25 x 35   | 1.70           | 25 x 35   | 1.64           |
|                |      |           |                | 30 x 25   | 1.67           | 30 x 25   | 1.67           | 30 x 30   | 1.70           |
|                |      |           |                |           |                |           |                | 35 x 25   | 1.71           |
| 680            | 687  | 22 x 40   | 1.82           | 22 x 45   | 1.78           | 22 x 45   | 1.78           | 25 x 40   | 1.84           |
|                |      | 25 x 35   | 1.85           | 25 x 35   | 1.78           | 25 x 40   | 1.82           | 30 x 35   | 1.93           |
|                |      | 30 x 25   | 1.82           | 30 x 30   | 1.78           | 30 x 30   | 1.78           | 35 x 30   | 1.89           |
| 820            | 827  | 22 x 45   | 2.04           | 22 x 50   | 2.04           | 25 x 45   | 2.10           | 25 x 45   | 2.08           |
|                |      | 25 x 35   | 2.04           | 25 x 40   | 2.04           | 30 x 35   | 2.04           | 30 x 40   | 2.19           |
|                |      | 30 x 30   | 2.04           | 30 x 30   | 2.04           | 35 x 25   | 2.04           | 35 x 30   | 2.16           |
| 1000           | 108  | 25 x 45   | 2.40           | 25 x 45   | 2.30           | 25 x 50   | 2.42           | 30 x 45   | 2.50           |
|                |      | 30 x 35   | 2.25           | 30 x 35   | 2.30           | 30 x 35   | 2.30           | 35 x 35   | 2.44           |
|                |      |           |                | 35 x 30   | 2.30           | 35 x 30   | 2.30           |           |                |
| 1200           | 128  | 25 x 50   | 2.62           | 30 x 40   | 2.55           | 30 x 40   | 2.65           | 35 x 40   | 2.79           |
|                |      | 30 x 35   | 2.49           | 35 x 35   | 2.55           | 35 x 35   | 2.65           |           |                |
|                |      | 35 x 30   | 2.49           |           |                |           |                |           |                |
| 1500           | 158  | 30 x 40   | 2.84           | 30 x 45   | 2.90           | 35 x 40   | 3.08           | 35 x 45   | 3.22           |
|                |      | 35 x 35   | 2.84           | 35 x 35   | 2.90           |           |                |           |                |
| 1800           | 188  | 30 x 50   | 3.32           | 35 x 40   | 3.30           | 35 x 45   | 3.48           |           |                |
|                |      | 35 x 35   | 3.00           |           |                |           |                |           |                |
| 2200           | 228  | 35 x 45   | 3.50           | 35 x 50   | 3.65           |           |                |           |                |

Maximum Allowable Ripple Current (A rms) at 105°C 120Hz

Case Size φD x L(mm)

## Lug/Snap-in Terminal Type(插入/自立型), Wide Temperature(寛温度)

## DIMENSIONS

| Voltage (Code) |      | 250V (2E) |                | 315V (2F) |                | 350V (2V) |                | 385V (2Y) |                |
|----------------|------|-----------|----------------|-----------|----------------|-----------|----------------|-----------|----------------|
| Cap.(μF)       | Code | Case Size | Ripple Current | Case Size | Ripple Current | Case Size | Ripple Current | Case Size | Ripple Current |
| 56             | 566  |           |                |           |                |           |                | 20 x 25   | 0.37           |
| 68             | 686  |           |                |           |                | 20 x 25   | 0.47           | 20 x 30   | 0.44           |
|                |      |           |                |           |                |           |                | 22 x 25   | 0.45           |
| 82             | 826  |           |                | 20 x 25   | 0.64           | 20 x 30   | 0.54           | 20 x 30   | 0.50           |
|                |      |           |                |           |                |           |                | 22 x 30   | 0.52           |
| 100            | 107  |           |                | 20 x 30   | 0.49           | 20 x 30   | 0.60           | 20 x 35   | 0.56           |
|                |      |           |                |           |                | 22 x 25   | 0.69           | 22 x 30   | 0.58           |
|                |      |           |                |           |                |           |                | 25 x 25   | 0.57           |
| 120            | 127  |           |                | 20 x 30   | 0.75           | 20 x 35   | 0.68           | 20 x 40   | 0.66           |
|                |      |           |                | 22 x 25   | 0.75           | 22 x 30   | 0.75           | 22 x 35   | 0.68           |
|                |      |           |                |           |                | 25 x 25   | 0.75           | 25 x 30   | 0.68           |
| 150            | 157  | 20 x 25   | 0.79           | 20 x 35   | 0.82           | 20 x 40   | 0.78           | 22 x 40   | 0.79           |
|                |      |           |                | 22 x 30   | 0.82           | 22 x 35   | 0.82           | 25 x 30   | 0.78           |
|                |      |           |                | 25 x 25   | 0.82           | 25 x 30   | 0.83           | 30 x 25   | 0.75           |
| 180            | 187  | 20 x 30   | 0.90           | 20 x 40   | 0.90           | 22 x 40   | 0.92           | 22 x 45   | 0.89           |
|                |      | 22 x 25   | 0.88           | 22 x 35   | 0.92           | 25 x 30   | 0.92           | 25 x 35   | 0.86           |
|                |      |           |                | 25 x 30   | 0.93           | 30 x 25   | 0.90           | 30 x 30   | 0.88           |
| 220            | 227  | 20 x 35   | 1.00           | 22 x 40   | 1.04           | 22 x 45   | 1.05           | 22 x 50   | 1.01           |
|                |      | 22 x 25   | 1.00           | 25 x 30   | 1.04           | 25 x 35   | 1.04           | 25 x 40   | 1.00           |
|                |      | 25 x 25   | 1.08           | 30 x 25   | 1.04           | 30 x 30   | 1.02           | 30 x 30   | 1.00           |
| 270            | 277  | 20 x 40   | 1.10           | 22 x 45   | 1.16           | 22 x 50   | 1.16           | 25 x 45   | 1.13           |
|                |      | 22 x 30   | 1.18           | 25 x 35   | 1.16           | 25 x 40   | 1.18           | 30 x 40   | 1.14           |
|                |      | 25 x 30   | 1.27           | 30 x 25   | 1.16           | 30 x 30   | 1.17           | 35 x 30   | 1.10           |
| 330            | 337  | 22 x 35   | 1.30           | 22 x 50   | 1.33           | 25 x 45   | 1.29           | 30 x 45   | 1.31           |
|                |      | 25 x 30   | 1.30           | 25 x 40   | 1.33           | 30 x 35   | 1.34           | 35 x 35   | 1.32           |
|                |      | 30 x 25   | 1.35           | 30 x 30   | 1.33           | 35 x 30   | 1.22           |           |                |
| 390            | 397  | 22 x 40   | 1.49           | 25 x 45   | 1.47           | 25 x 50   | 1.51           | 30 x 50   | 1.48           |
|                |      | 25 x 35   | 1.49           | 30 x 35   | 1.47           | 30 x 40   | 1.51           | 35 x 40   | 1.48           |
|                |      | 30 x 25   | 1.49           | 35 x 30   | 1.47           | 35 x 35   | 1.47           |           |                |
| 470            | 477  | 22 x 45   | 1.65           | 30 x 40   | 1.70           | 30 x 45   | 1.65           | 35 x 45   | 1.76           |
|                |      | 25 x 40   | 1.65           | 35 x 30   | 1.70           | 35 x 35   | 1.69           |           |                |
|                |      | 30 x 30   | 1.65           |           |                |           |                |           |                |
| 560            | 567  | 25 x 45   | 1.80           | 30 x 45   | 2.05           | 30 x 50   | 1.85           | 35 x 50   | 1.95           |
|                |      | 30 x 35   | 1.80           | 35 x 35   | 2.05           | 35 x 40   | 1.90           |           |                |
| 680            | 687  | 25 x 50   | 2.03           | 35 x 40   | 2.17           | 35 x 45   | 2.20           |           |                |
|                |      | 30 x 35   | 2.00           |           |                |           |                |           |                |
|                |      | 35 x 30   | 2.00           |           |                |           |                |           |                |
| 820            | 827  | 30 x 40   | 2.30           | 35 x 45   | 2.20           |           |                |           |                |
|                |      | 35 x 35   | 2.30           |           |                |           |                |           |                |
| 1000           | 108  | 30 x 50   | 2.70           |           |                |           |                |           |                |
|                |      | 35 x 40   | 2.69           |           |                |           |                |           |                |
| 1200           | 128  | 35 x 45   | 3.09           |           |                |           |                |           |                |

Maximum Allowable Ripple Current (A rms) at 105°C 120Hz

Case Size φD x L(mm)

## Lug/Snap-in Terminal Type(插入/自立型), Wide Temperature(寬溫度)

## DIMENSIONS

| Voltage (Code) |      | 400V (2G) |                | 420V (2M) |                | 450V (2W) |                | 500V (2H) |                |
|----------------|------|-----------|----------------|-----------|----------------|-----------|----------------|-----------|----------------|
| Cap.(μF)       | Code | Case Size | Ripple Current | Case Size | Ripple Current | Case Size | Ripple Current | Case Size | Ripple Current |
| 39             | 396  |           |                |           |                |           |                | 22 x 30   | 0.35           |
| 47             | 476  |           |                |           |                | 20 x 25   | 0.39           | 22 x 35   | 0.41           |
| 56             | 566  | 20 x 25   | 0.51           | 20 x 25   | 0.51           | 20 x 30   | 0.51           | 22 x 40   | 0.47           |
|                |      |           |                |           |                | 22 x 25   | 0.50           |           |                |
| 68             | 686  | 20 x 30   | 0.56           | 20 x 30   | 0.56           | 20 x 35   | 0.56           | 22 x 45   | 0.54           |
|                |      | 22 x 25   | 0.50           | 22 x 25   | 0.55           | 22 x 30   | 0.53           |           |                |
|                |      |           |                |           |                | 25 x 25   | 0.53           |           |                |
| 82             | 826  | 20 x 30   | 0.64           | 20 x 35   | 0.64           | 20 x 35   | 0.64           | 25 x 40   | 0.62           |
|                |      | 22 x 25   | 0.64           | 22 x 25   | 0.64           | 22 x 30   | 0.64           |           |                |
|                |      |           |                | 25 x 25   | 0.58           | 25 x 25   | 0.64           |           |                |
|                |      |           |                |           |                |           |                |           |                |
| 100            | 107  | 20 x 35   | 0.70           | 20 x 35   | 0.70           | 22 x 35   | 0.69           | 25 x 45   | 0.67           |
|                |      | 22 x 30   | 0.70           | 22 x 30   | 0.70           | 25 x 30   | 0.69           |           |                |
|                |      | 25 x 25   | 0.70           | 25 x 25   | 0.70           | 30 x 25   | 0.72           |           |                |
| 120            | 127  | 20 x 40   | 0.75           | 20 x 40   | 0.75           | 22 x 40   | 0.80           | 25 x 50   | 0.77           |
|                |      | 22 x 35   | 0.75           | 22 x 35   | 0.75           | 25 x 30   | 0.80           | 35 x 30   | 0.72           |
|                |      |           |                | 25 x 30   | 0.75           | 30 x 25   | 0.80           |           |                |
|                |      | 25 x 30   | 0.76           | 30 x 25   | 0.78           |           |                |           |                |
| 150            | 157  | 22 x 40   | 0.88           | 22 x 40   | 0.88           | 22 x 45   | 0.88           | 30 x 40   | 0.85           |
|                |      | 25 x 35   | 0.89           | 25 x 35   | 0.88           | 25 x 35   | 0.88           |           |                |
|                |      | 30 x 25   | 0.88           | 30 x 25   | 0.88           | 30 x 30   | 0.88           |           |                |
| 180            | 187  | 22 x 45   | 0.98           | 22 x 45   | 0.95           | 25 x 40   | 1.00           | 30 x 50   | 1.01           |
|                |      | 25 x 35   | 0.98           | 25 x 40   | 0.97           | 30 x 30   | 1.00           |           |                |
|                |      |           |                | 30 x 30   | 0.96           |           |                |           |                |
|                |      | 30 x 30   | 0.98           | 35 x 25   | 0.94           |           |                |           |                |
| 220            | 227  | 22 x 50   | 1.10           | 25 x 45   | 1.13           | 25 x 45   | 1.12           | 35 x 45   | 1.12           |
|                |      | 25 x 40   | 1.10           | 30 x 35   | 1.10           | 30 x 35   | 1.12           |           |                |
|                |      | 30 x 30   | 1.10           | 35 x 25   | 1.10           | 35 x 30   | 1.12           |           |                |
| 270            | 277  | 25 x 50   | 1.29           | 25 x 50   | 1.37           | 30 x 40   | 1.28           | 35 x 50   | 1.29           |
|                |      | 30 x 35   | 1.22           | 30 x 40   | 1.25           |           |                |           |                |
|                |      | 35 x 30   | 1.22           | 35 x 30   | 1.22           | 35 x 35   | 1.28           |           |                |
| 330            | 337  | 30 x 45   | 1.55           | 30 x 45   | 1.49           | 30 x 50   | 1.45           |           |                |
|                |      | 35 x 30   | 1.44           | 35 x 35   | 1.45           | 35 x 40   | 1.45           |           |                |
| 390            | 397  | 30 x 45   | 1.60           | 30 x 50   | 1.67           | 35 x 40   | 1.55           |           |                |
|                |      | 35 x 35   | 1.60           | 35 x 40   | 1.66           |           |                |           |                |
| 470            | 477  | 35 x 40   | 1.90           | 35 x 45   | 1.90           | 35 x 50   | 1.85           |           |                |
| 560            | 567  | 35 x 45   | 2.12           |           |                |           |                |           |                |

Maximum Allowable Ripple Current (A rms) at 105°C 120Hz

Case Size φD x L(mm)