

## USG series

85°C 3000 時間 標準品  
Load Life : 85°C 3000 hours, Standard



### ◆規格表／SPECIFICATIONS

| 項目 Item                                                                  | 特性 Characteristics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |      |         |      |            |      |         |  |                               |                                                   |         |     |         |                 |    |    |         |                              |                                                            |      |      |      |      |      |      |      |                         |                                             |  |  |  |  |  |  |  |
|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|---------|------|------------|------|---------|--|-------------------------------|---------------------------------------------------|---------|-----|---------|-----------------|----|----|---------|------------------------------|------------------------------------------------------------|------|------|------|------|------|------|------|-------------------------|---------------------------------------------|--|--|--|--|--|--|--|
| カテゴリ温度範囲<br>Category Temperature Range                                   | -40～+85℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |      |         |      | -25～+85℃   |      |         |  |                               |                                                   |         |     |         |                 |    |    |         |                              |                                                            |      |      |      |      |      |      |      |                         |                                             |  |  |  |  |  |  |  |
| 定格電圧範囲<br>Rated Voltage Range                                            | 10～250Vdc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |      |         |      | 400～450Vdc |      |         |  |                               |                                                   |         |     |         |                 |    |    |         |                              |                                                            |      |      |      |      |      |      |      |                         |                                             |  |  |  |  |  |  |  |
| 静電容量許容差<br>Capacitance Tolerance                                         | ±20% (20℃, 120Hz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |      |         |      |            |      |         |  |                               |                                                   |         |     |         |                 |    |    |         |                              |                                                            |      |      |      |      |      |      |      |                         |                                             |  |  |  |  |  |  |  |
| 漏れ電流<br>Leakage Current (MAX)                                            | I=3√CV (定格電圧印加5分後)<br>I=3√CV (After 5 minutes application of rated voltage)<br>I=漏れ電流 (μA) C=静電容量 (μF) V=定格電圧 (Vdc)<br>Leakage Current Capacitance Rated Voltage                                                                                                                                                                                                                                                                                                                                                                                                |         |      |         |      |            |      |         |  |                               |                                                   |         |     |         |                 |    |    |         |                              |                                                            |      |      |      |      |      |      |      |                         |                                             |  |  |  |  |  |  |  |
| 損失角の正接 (tan δ)<br>Dissipation Factor (MAX)                               | <table><tr><td>定格電圧 (Vdc)<br/>Rated Voltage</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>80</td><td>100～450</td></tr><tr><td>tan δ</td><td>0.55</td><td>0.50</td><td>0.45</td><td>0.40</td><td>0.35</td><td>0.30</td><td>0.25</td><td>0.20</td></tr></table> (20℃, 120Hz)                                                                                                                                                                                                                                                          |         |      |         |      |            |      |         |  | 定格電圧 (Vdc)<br>Rated Voltage   | 10                                                | 16      | 25  | 35      | 50              | 63 | 80 | 100～450 | tan δ                        | 0.55                                                       | 0.50 | 0.45 | 0.40 | 0.35 | 0.30 | 0.25 | 0.20 |                         |                                             |  |  |  |  |  |  |  |
| 定格電圧 (Vdc)<br>Rated Voltage                                              | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 16      | 25   | 35      | 50   | 63         | 80   | 100～450 |  |                               |                                                   |         |     |         |                 |    |    |         |                              |                                                            |      |      |      |      |      |      |      |                         |                                             |  |  |  |  |  |  |  |
| tan δ                                                                    | 0.55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.50    | 0.45 | 0.40    | 0.35 | 0.30       | 0.25 | 0.20    |  |                               |                                                   |         |     |         |                 |    |    |         |                              |                                                            |      |      |      |      |      |      |      |                         |                                             |  |  |  |  |  |  |  |
| 耐久性<br>Endurance                                                         | 85℃中で3000時間定格電圧(リップル重畳)印加後、下記項目を満足すること。<br>After applying rated voltage with rated ripple current for 3000 hours at 85℃, the capacitors shall meet the following requirements. <table><tr><td>静電容量変化率<br/>Capacitance Change</td><td colspan="8">初期値の ±20% 以内<br/>Within ±20% of the initial value.</td></tr><tr><td>損失角の正接<br/>Dissipation Factor</td><td colspan="8">規格値の 200% 以下<br/>Not more than 200% of the specified value.</td></tr><tr><td>漏れ電流<br/>Leakage Current</td><td colspan="8">規格値以下<br/>Not more than the specified value.</td></tr></table> |         |      |         |      |            |      |         |  | 静電容量変化率<br>Capacitance Change | 初期値の ±20% 以内<br>Within ±20% of the initial value. |         |     |         |                 |    |    |         | 損失角の正接<br>Dissipation Factor | 規格値の 200% 以下<br>Not more than 200% of the specified value. |      |      |      |      |      |      |      | 漏れ電流<br>Leakage Current | 規格値以下<br>Not more than the specified value. |  |  |  |  |  |  |  |
| 静電容量変化率<br>Capacitance Change                                            | 初期値の ±20% 以内<br>Within ±20% of the initial value.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |      |         |      |            |      |         |  |                               |                                                   |         |     |         |                 |    |    |         |                              |                                                            |      |      |      |      |      |      |      |                         |                                             |  |  |  |  |  |  |  |
| 損失角の正接<br>Dissipation Factor                                             | 規格値の 200% 以下<br>Not more than 200% of the specified value.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |      |         |      |            |      |         |  |                               |                                                   |         |     |         |                 |    |    |         |                              |                                                            |      |      |      |      |      |      |      |                         |                                             |  |  |  |  |  |  |  |
| 漏れ電流<br>Leakage Current                                                  | 規格値以下<br>Not more than the specified value.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |      |         |      |            |      |         |  |                               |                                                   |         |     |         |                 |    |    |         |                              |                                                            |      |      |      |      |      |      |      |                         |                                             |  |  |  |  |  |  |  |
| 低温特性<br>Low Temperature Stability<br>(インピーダンス比)<br>Impedance Ratio (MAX) | <table><tr><td>定格電圧 (Vdc)<br/>Rated Voltage</td><td>10～100</td><td>160～250</td><td>400</td><td>420～450</td></tr><tr><td>Z(-25℃)/Z(+20℃)</td><td>3</td><td>4</td><td>8</td><td>12</td></tr><tr><td>Z(-40℃)/Z(+20℃)</td><td>12</td><td>12</td><td>—</td><td>—</td></tr></table> (120Hz)                                                                                                                                                                                                                                                                           |         |      |         |      |            |      |         |  | 定格電圧 (Vdc)<br>Rated Voltage   | 10～100                                            | 160～250 | 400 | 420～450 | Z(-25℃)/Z(+20℃) | 3  | 4  | 8       | 12                           | Z(-40℃)/Z(+20℃)                                            | 12   | 12   | —    | —    |      |      |      |                         |                                             |  |  |  |  |  |  |  |
| 定格電圧 (Vdc)<br>Rated Voltage                                              | 10～100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 160～250 | 400  | 420～450 |      |            |      |         |  |                               |                                                   |         |     |         |                 |    |    |         |                              |                                                            |      |      |      |      |      |      |      |                         |                                             |  |  |  |  |  |  |  |
| Z(-25℃)/Z(+20℃)                                                          | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4       | 8    | 12      |      |            |      |         |  |                               |                                                   |         |     |         |                 |    |    |         |                              |                                                            |      |      |      |      |      |      |      |                         |                                             |  |  |  |  |  |  |  |
| Z(-40℃)/Z(+20℃)                                                          | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12      | —    | —       |      |            |      |         |  |                               |                                                   |         |     |         |                 |    |    |         |                              |                                                            |      |      |      |      |      |      |      |                         |                                             |  |  |  |  |  |  |  |

### ◆呼称方法／PART NUMBER

|                       |                 |                     |                                  |               |                       |                     |
|-----------------------|-----------------|---------------------|----------------------------------|---------------|-----------------------|---------------------|
| □□□                   | USG             | □□□□□               | M                                | □□□           | SN                    | D x L               |
| 定格電圧<br>Rated Voltage | シリーズ名<br>Series | 静電容量<br>Capacitance | 静電容量許容差<br>Capacitance Tolerance | 副記号<br>Option | 端子記号<br>Terminal Code | ケースサイズ<br>Case Size |

### ◆リップル電流補正係数／ MULTIPLIER FOR RIPPLE CURRENT

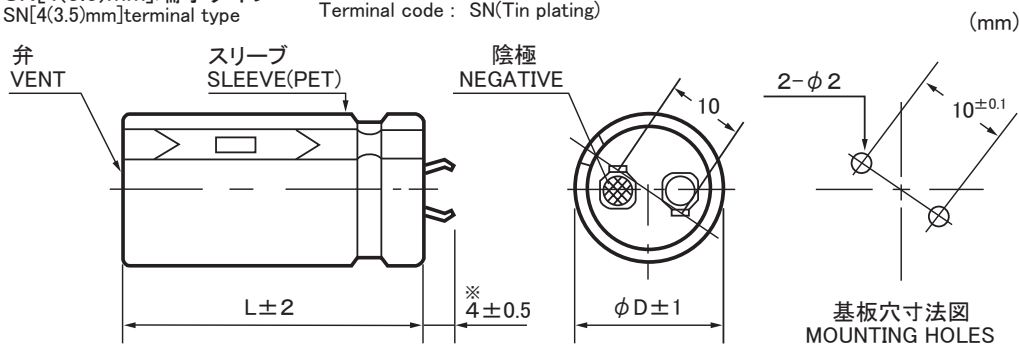
| 周波数 (Hz)<br>Frequency | 60<br>(50) | 120<br>(100) | 300  | 500  | 1k   | 10k≤ |
|-----------------------|------------|--------------|------|------|------|------|
| 10~100Vdc             | 0.90       | 1.00         | 1.03 | 1.05 | 1.10 | 1.15 |
| 160~250Vdc            | 0.80       | 1.00         | 1.15 | 1.20 | 1.30 | 1.50 |
| 400~450Vdc            | 0.80       | 1.00         | 1.15 | 1.20 | 1.25 | 1.40 |

### ◆副記号／OPTION

EFC : PET スリーブ、底板なし  
PET Sleeve without plate

◆寸法図／DIMENSIONS

- SN[4(3.5)mm]端子タイプ 端子記号 : SN(錫メッキ)  
SN[4(3.5)mm]terminal type Terminal code : SN(Tin plating)



◆標準品一覧表／STANDARD SIZE

| Cap.<br>(μF) | 10Vdc      |            |            |            |            | 16Vdc      |            |            |            |            |
|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|              | φ20        | φ22        | φ25        | φ30        | φ35        | φ20        | φ22        | φ25        | φ30        | φ35        |
| 8200         |            |            |            |            |            | 20×25 2.56 |            |            |            |            |
| 10000        | 20×25 2.22 |            |            |            |            | 20×30 2.85 | 22×25 2.85 |            |            |            |
| 12000        | 20×30 2.44 | 22×25 2.41 |            |            |            | 20×35 3.20 | 22×30 3.20 |            |            |            |
| 15000        | 20×35 2.90 | 22×30 2.88 | 25×25 2.88 |            |            | 20×40 3.70 | 22×35 3.70 | 25×25 3.70 |            |            |
| 18000        | 20×40 3.31 | 22×35 3.22 | 25×30 3.08 |            |            |            | 22×40 3.98 | 25×30 3.98 |            |            |
| 22000        |            | 22×40 3.79 | 25×30 3.66 | 30×25 3.58 |            |            | 22×45 4.52 | 25×35 4.52 | 30×25 4.52 |            |
| 27000        |            | 22×45 4.04 | 25×35 4.04 | 30×30 3.99 |            |            | 22×50 4.98 | 25×40 4.98 | 30×30 4.98 |            |
| 33000        |            | 22×50 4.58 | 25×40 4.56 | 30×30 4.58 |            |            |            | 25×45 5.49 | 30×35 5.49 | 35×30 5.49 |
| 39000        |            |            | 25×45 5.29 | 30×35 5.21 | 35×30 5.05 |            |            | 25×50 6.11 | 30×40 6.11 | 35×35 6.11 |
| 47000        |            |            | 25×50 5.78 | 30×40 5.78 | 35×35 5.55 |            |            |            | 30×45 6.80 | 35×35 6.80 |
| 56000        |            |            |            | 30×45 6.59 | 35×35 6.40 |            |            |            | 30×50 7.62 | 35×40 7.62 |
| 68000        |            |            |            | 30×50 7.50 | 35×40 7.48 |            |            |            |            | 35×45 8.45 |
| 82000        |            |            |            |            | 35×50 8.50 |            |            |            |            | 35×50 9.14 |

| Cap.<br>(μF) | 25Vdc      |            |            |            |            | 35Vdc      |            |            |            |            |
|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|              | φ20        | φ22        | φ25        | φ30        | φ35        | φ20        | φ22        | φ25        | φ30        | φ35        |
| 3300         |            |            |            |            |            | 20×25 2.14 |            |            |            |            |
| 3900         |            |            |            |            |            | 20×30 2.28 |            |            |            |            |
| 4700         |            |            |            |            |            | 20×35 2.46 | 22×25 2.46 |            |            |            |
| 5600         | 20×25 2.33 |            |            |            |            | 20×40 2.79 | 22×30 2.79 | 25×25 2.79 |            |            |
| 6800         | 20×30 2.56 | 22×25 2.56 |            |            |            |            | 22×35 2.89 | 25×30 2.89 |            |            |
| 8200         | 20×35 2.91 | 22×30 2.91 |            |            |            |            | 22×40 3.47 | 25×30 3.47 | 30×25 3.47 |            |
| 10000        | 20×40 3.18 | 22×35 3.18 | 25×25 3.18 |            |            |            | 22×45 3.59 | 25×35 3.59 | 30×30 3.59 |            |
| 12000        |            | 22×40 3.53 | 25×30 3.53 |            |            |            | 22×50 4.51 | 25×40 4.51 | 30×30 4.51 |            |
| 15000        |            | 22×45 4.08 | 25×35 4.08 | 30×25 4.08 |            |            |            | 25×45 4.80 | 30×35 4.80 | 35×30 4.80 |
| 18000        |            | 22×50 4.68 | 25×40 4.68 | 30×30 4.68 |            |            |            |            | 30×40 5.70 | 35×35 5.70 |
| 22000        |            |            | 25×45 5.19 | 30×35 5.19 | 35×30 5.19 |            |            |            | 30×45 6.38 | 35×40 6.38 |
| 27000        |            |            | 25×50 6.02 | 30×40 6.02 | 35×35 6.02 |            |            |            |            | 35×45 6.90 |
| 33000        |            |            |            | 30×45 6.75 | 35×40 6.75 |            |            |            |            | 35×50 7.49 |
| 39000        |            |            |            | 30×50 7.56 | 35×45 7.56 |            |            |            |            |            |
| 47000        |            |            |            |            | 35×50 8.30 |            |            |            |            |            |

| Cap.<br>(μF) | 50Vdc      |            |            |            |            | 63Vdc      |            |            |            |            |
|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|              | φ20        | φ22        | φ25        | φ30        | φ35        | φ20        | φ22        | φ25        | φ30        | φ35        |
| 1500         |            |            |            |            |            | 20×25 1.69 |            |            |            |            |
| 1800         |            |            |            |            |            | 20×30 2.04 | 22×25 2.04 |            |            |            |
| 2200         | 20×25 2.07 |            |            |            |            | 20×35 2.40 | 22×30 2.40 |            |            |            |
| 2700         | 20×30 2.21 | 22×25 2.21 |            |            |            | 20×40 2.52 | 22×35 2.52 | 25×25 2.52 |            |            |
| 3300         | 20×35 2.41 | 22×30 2.41 |            |            |            |            | 22×40 2.69 | 25×30 2.69 |            |            |
| 3900         | 20×40 2.72 | 22×30 2.72 | 25×25 2.72 |            |            |            | 22×45 3.10 | 25×35 3.10 | 30×25 3.10 |            |
| 4700         |            | 22×35 3.01 | 25×30 3.01 |            |            |            | 22×50 3.49 | 25×40 3.49 | 30×30 3.49 |            |
| 5600         |            | 22×40 3.43 | 25×35 3.43 | 30×25 3.43 |            |            |            | 25×45 3.81 | 30×35 3.81 |            |
| 6800         |            | 22×45 3.94 | 25×35 3.94 | 30×30 3.94 |            |            |            | 25×50 4.41 | 30×40 4.41 | 35×30 4.41 |
| 8200         |            |            | 25×40 4.37 | 30×35 4.37 |            |            |            |            | 30×45 4.90 | 35×35 4.90 |
| 10000        |            |            | 25×50 5.02 | 30×40 5.02 | 35×30 5.02 |            |            |            | 30×50 5.49 | 35×40 5.49 |
| 12000        |            |            |            | 30×45 5.60 | 35×35 5.60 |            |            |            |            | 35×45 6.30 |
| 15000        |            |            |            | 30×50 6.44 | 35×40 6.44 |            |            |            |            |            |
| 18000        |            |            |            |            | 35×45 6.71 |            |            |            |            |            |

ケースサイズ Case Size φD×L(mm) →  
リプル電流 Ripple Current (A.r.m.s./120Hz,85°C) →

### ◆標準品一覧表／STANDARD SIZE

| Cap.<br>( $\mu$ F) | 80Vdc     |           |           |           |           |           |           |           |           |           | 100Vdc    |           |           |           |           |           |           |           |           |           |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    | $\phi$ 20 | $\phi$ 22 | $\phi$ 25 | $\phi$ 30 | $\phi$ 35 | $\phi$ 20 | $\phi$ 22 | $\phi$ 25 | $\phi$ 30 | $\phi$ 35 | $\phi$ 20 | $\phi$ 22 | $\phi$ 25 | $\phi$ 30 | $\phi$ 35 | $\phi$ 20 | $\phi$ 22 | $\phi$ 25 | $\phi$ 30 | $\phi$ 35 |
| 680                |           |           |           |           |           |           |           |           |           |           | 20×25     | 1.66      |           |           |           |           |           |           |           |           |
| 820                |           |           |           |           |           |           |           |           |           |           | 20×30     | 1.86      | 22×25     | 1.86      |           |           |           |           |           |           |
| 1000               | 20×25     | 1.56      |           |           |           |           |           |           |           |           | 20×30     | 2.02      | 22×30     | 2.02      |           |           |           |           |           |           |
| 1200               | 20×30     | 1.80      | 22×25     | 1.80      |           |           |           |           |           |           | 20×35     | 2.12      | 22×30     | 2.12      | 25×25     | 2.12      |           |           |           |           |
| 1500               | 20×30     | 2.10      | 22×30     | 2.10      |           |           |           |           |           |           | 20×40     | 2.45      | 22×35     | 2.45      | 25×30     | 2.45      |           |           |           |           |
| 1800               | 20×35     | 2.30      | 22×30     | 2.30      | 25×25     | 2.30      |           |           |           |           |           |           | 22×40     | 2.77      | 25×30     | 2.77      | 30×25     | 2.77      |           |           |
| 2200               | 20×40     | 2.53      | 22×35     | 2.53      | 25×30     | 2.53      |           |           |           |           |           |           | 22×45     | 3.12      | 25×35     | 3.12      | 30×30     | 3.12      |           |           |
| 2700               |           |           | 22×40     | 2.93      | 25×35     | 2.93      | 30×25     | 2.93      |           |           |           |           |           |           | 25×40     | 3.61      | 30×30     | 3.61      |           |           |
| 3300               |           |           | 22×45     | 3.25      | 25×35     | 3.25      | 30×30     | 3.25      |           |           |           |           |           |           | 25×50     | 4.06      | 30×35     | 4.06      | 35×30     | 4.06      |
| 3900               |           |           |           |           | 25×40     | 3.62      | 30×35     | 3.62      |           |           |           |           |           |           |           |           | 30×40     | 4.60      | 35×35     | 4.60      |
| 4700               |           |           |           |           | 25×45     | 4.28      | 30×40     | 4.28      | 35×30     | 4.28      |           |           |           |           |           |           | 30×45     | 5.13      | 35×40     | 5.13      |
| 5600               |           |           |           |           |           |           | 30×45     | 4.55      | 35×35     | 4.55      |           |           |           |           |           |           |           |           | 35×45     | 5.75      |
| 6800               |           |           |           |           |           |           | 30×45     | 5.83      | 35×40     | 5.83      |           |           |           |           |           |           |           |           | 35×50     | 6.01      |
| 8200               |           |           |           |           |           |           |           |           | 35×45     | 6.40      |           |           |           |           |           |           |           |           |           |           |
| 10000              |           |           |           |           |           |           |           |           | 35×50     | 7.03      |           |           |           |           |           |           |           |           |           |           |

| Cap.<br>( $\mu$ F) | 160Vdc    |           |           |           |           |           |           |           |           |           | 180Vdc    |           |           |           |           |           |           |           |           |           |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    | $\phi$ 20 | $\phi$ 22 | $\phi$ 25 | $\phi$ 30 | $\phi$ 35 | $\phi$ 20 | $\phi$ 22 | $\phi$ 25 | $\phi$ 30 | $\phi$ 35 | $\phi$ 20 | $\phi$ 22 | $\phi$ 25 | $\phi$ 30 | $\phi$ 35 | $\phi$ 20 | $\phi$ 22 | $\phi$ 25 | $\phi$ 30 | $\phi$ 35 |
| 390                | 20×25     | 1.19      |           |           |           |           |           |           |           |           | 20×25     | 1.84      |           |           |           |           |           |           |           |           |
| 470                | 20×30     | 1.76      | 22×25     | 1.76      |           |           |           |           |           |           | 20×30     | 2.08      | 22×25     | 2.08      |           |           |           |           |           |           |
| 560                | 20×30     | 2.25      | 22×25     | 2.25      |           |           |           |           |           |           | 20×35     | 2.25      | 22×30     | 2.25      |           |           |           |           |           |           |
| 680                | 20×35     | 2.50      | 22×30     | 2.50      | 25×25     | 2.50      |           |           |           |           | 20×40     | 2.50      | 22×35     | 2.50      | 25×25     | 2.50      |           |           |           |           |
| 820                | 20×40     | 2.75      | 22×35     | 2.75      | 25×30     | 2.75      |           |           |           |           | 20×45     | 2.75      | 22×40     | 2.75      | 25×30     | 2.75      |           |           |           |           |
| 1000               |           |           | 22×40     | 3.00      | 25×30     | 3.00      | 30×25     | 3.00      |           |           |           |           | 22×45     | 3.00      | 25×35     | 3.00      | 30×25     | 3.00      |           |           |
| 1200               |           |           | 22×45     | 3.25      | 25×35     | 3.25      | 30×30     | 3.25      |           |           |           |           | 22×50     | 3.31      | 25×40     | 3.31      | 30×30     | 3.31      | 35×25     | 3.31      |
| 1500               |           |           |           |           | 25×45     | 3.73      | 30×35     | 3.73      |           |           |           |           |           |           | 25×50     | 3.83      | 30×35     | 3.83      | 35×30     | 3.83      |
| 1800               |           |           |           |           | 25×50     | 4.20      | 30×35     | 4.20      | 35×30     | 4.20      |           |           |           |           |           |           | 30×40     | 4.32      | 35×35     | 4.32      |
| 2200               |           |           |           |           |           |           | 30×45     | 4.78      | 35×35     | 4.78      |           |           |           |           |           |           | 30×50     | 4.92      | 35×40     | 4.92      |
| 2700               |           |           |           |           |           |           | 30×50     | 5.45      | 35×40     | 5.45      |           |           |           |           |           |           |           |           | 35×45     | 5.52      |
| 3300               |           |           |           |           |           |           |           |           | 35×45     | 5.75      |           |           |           |           |           |           |           |           |           |           |

| Cap.<br>( $\mu$ F) | 200Vdc    |           |           |           |           |           |           |           |           |           | 220Vdc    |           |           |           |           |           |           |           |           |           |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    | $\phi$ 20 | $\phi$ 22 | $\phi$ 25 | $\phi$ 30 | $\phi$ 35 | $\phi$ 20 | $\phi$ 22 | $\phi$ 25 | $\phi$ 30 | $\phi$ 35 | $\phi$ 20 | $\phi$ 22 | $\phi$ 25 | $\phi$ 30 | $\phi$ 35 | $\phi$ 20 | $\phi$ 22 | $\phi$ 25 | $\phi$ 30 | $\phi$ 35 |
| 270                |           |           |           |           |           |           |           |           |           |           | 20×25     | 1.42      |           |           |           |           |           |           |           |           |
| 330                | 20×25     | 1.44      |           |           |           |           |           |           |           |           | 20×30     | 1.58      | 22×25     | 1.58      |           |           |           |           |           |           |
| 390                | 20×30     | 1.68      | 22×25     | 1.68      |           |           |           |           |           |           | 20×35     | 1.75      | 22×30     | 1.75      |           |           |           |           |           |           |
| 470                | 20×35     | 1.93      | 22×30     | 1.93      | 25×25     | 1.93      |           |           |           |           | 20×35     | 1.99      | 22×30     | 1.99      | 25×25     | 1.99      |           |           |           |           |
| 560                | 20×35     | 2.43      | 22×30     | 2.43      | 25×25     | 2.43      |           |           |           |           | 20×40     | 2.28      | 22×35     | 2.28      | 25×30     | 2.28      |           |           |           |           |
| 680                | 20×40     | 2.68      | 22×35     | 2.68      | 25×30     | 2.68      | 30×25     | 2.68      |           |           |           |           | 22×40     | 2.46      | 25×30     | 2.46      | 30×25     | 2.46      |           |           |
| 820                |           |           | 22×40     | 2.93      | 25×30     | 2.93      | 30×25     | 2.93      |           |           |           |           | 22×45     | 2.81      | 25×35     | 2.81      | 30×30     | 2.81      |           |           |
| 1000               |           |           | 22×45     | 3.25      | 25×35     | 3.25      | 30×30     | 3.25      | 35×25     | 3.25      |           |           |           |           | 25×45     | 3.29      | 30×30     | 3.29      |           |           |
| 1200               |           |           |           |           | 25×45     | 3.50      | 30×35     | 3.50      | 35×30     | 3.50      |           |           |           |           | 25×50     | 3.60      | 30×35     | 3.60      | 35×30     | 3.60      |
| 1500               |           |           |           |           | 25×50     | 3.87      | 30×40     | 3.87      | 35×30     | 3.87      |           |           |           |           |           |           | 30×45     | 3.92      | 35×35     | 3.92      |
| 1800               |           |           |           |           |           |           | 30×45     | 4.32      | 35×35     | 4.32      |           |           |           |           |           |           | 30×50     | 4.30      | 35×40     | 4.30      |
| 2200               |           |           |           |           |           |           | 30×50     | 4.92      | 35×40     | 4.92      |           |           |           |           |           |           |           |           | 35×50     | 4.95      |
| 2700               |           |           |           |           |           |           |           |           | 35×50     | 5.45      |           |           |           |           |           |           |           |           |           |           |

ケースサイズ Case Size  $\phi D \times L$ (mm)  $\longrightarrow$  ↑  
 リプル電流 Ripple Current (A.r.m.s./120Hz,85°C)  $\longrightarrow$  ↑

◆標準品一覧表／STANDARD SIZE

| Cap.<br>( $\mu$ F) | 250Vdc    |      |           |      |           |      |           |      |           |      | 400Vdc    |      |           |      |           |      |           |      |           |      |
|--------------------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|
|                    | $\phi$ 20 |      | $\phi$ 22 |      | $\phi$ 25 |      | $\phi$ 30 |      | $\phi$ 35 |      | $\phi$ 20 |      | $\phi$ 22 |      | $\phi$ 25 |      | $\phi$ 30 |      | $\phi$ 35 |      |
| 82                 |           |      |           |      |           |      |           |      |           |      | 20×25     | 0.80 |           |      |           |      |           |      |           |      |
| 100                |           |      |           |      |           |      |           |      |           |      | 20×30     | 0.94 | 22×25     | 0.94 |           |      |           |      |           |      |
| 120                |           |      |           |      |           |      |           |      |           |      | 20×30     | 1.08 | 22×25     | 1.08 |           |      |           |      |           |      |
| 150                |           |      |           |      |           |      |           |      |           |      | 20×35     | 1.21 | 22×30     | 1.21 | 25×25     | 1.21 |           |      |           |      |
| 180                |           |      |           |      |           |      |           |      |           |      | 20×40     | 1.45 | 22×35     | 1.45 | 25×25     | 1.45 |           |      |           |      |
| 220                | 20×25     | 1.23 |           |      |           |      |           |      |           |      |           |      | 22×40     | 1.58 | 25×30     | 1.58 | 30×25     | 1.58 |           |      |
| 270                | 20×30     | 1.31 | 22×25     | 1.31 |           |      |           |      |           |      |           |      | 22×45     | 1.67 | 25×35     | 1.67 | 30×25     | 1.67 |           |      |
| 330                | 20×30     | 1.75 | 22×25     | 1.75 |           |      |           |      |           |      |           |      | 22×50     | 1.90 | 25×40     | 1.90 | 30×30     | 1.90 | 35×25     | 1.90 |
| 390                | 20×35     | 1.91 | 22×30     | 1.91 | 25×25     | 1.91 |           |      |           |      |           |      |           |      | 25×45     | 2.13 | 30×35     | 2.13 | 35×30     | 2.13 |
| 470                | 20×40     | 2.11 | 22×35     | 2.11 | 25×25     | 2.11 |           |      |           |      |           |      |           |      | 25×50     | 2.39 | 30×40     | 2.39 | 35×30     | 2.39 |
| 560                |           |      | 22×40     | 2.25 | 25×30     | 2.25 | 30×25     | 2.25 |           |      |           |      |           |      |           |      | 30×45     | 2.69 | 35×35     | 2.69 |
| 680                |           |      | 22×45     | 2.50 | 25×35     | 2.50 | 30×30     | 2.50 |           |      |           |      |           |      |           |      |           |      | 35×40     | 2.96 |
| 820                |           |      |           |      | 25×40     | 2.77 | 30×30     | 2.77 | 35×25     | 2.77 |           |      |           |      |           |      |           |      | 35×50     | 3.25 |
| 1000               |           |      |           |      | 25×45     | 3.32 | 30×35     | 3.32 | 35×30     | 3.32 |           |      |           |      |           |      |           |      |           |      |
| 1200               |           |      |           |      |           |      | 30×40     | 3.84 | 35×35     | 3.84 |           |      |           |      |           |      |           |      |           |      |
| 1500               |           |      |           |      |           |      | 30×50     | 4.25 | 35×40     | 4.25 |           |      |           |      |           |      |           |      |           |      |
| 1800               |           |      |           |      |           |      |           |      | 35×45     | 4.55 |           |      |           |      |           |      |           |      |           |      |

| Cap.<br>( $\mu$ F) | 420Vdc    |           |           |           |           |      |       |      |       |      | 450Vdc    |           |           |           |           |      |       |      |       |      |
|--------------------|-----------|-----------|-----------|-----------|-----------|------|-------|------|-------|------|-----------|-----------|-----------|-----------|-----------|------|-------|------|-------|------|
|                    | $\phi$ 20 | $\phi$ 22 | $\phi$ 25 | $\phi$ 30 | $\phi$ 35 |      |       |      |       |      | $\phi$ 20 | $\phi$ 22 | $\phi$ 25 | $\phi$ 30 | $\phi$ 35 |      |       |      |       |      |
| 68                 |           |           |           |           |           |      |       |      |       |      | 20×25     | 0.66      |           |           |           |      |       |      |       |      |
| 82                 | 20×25     | 0.83      |           |           |           |      |       |      |       |      | 20×25     | 0.83      |           |           |           |      |       |      |       |      |
| 100                | 20×30     | 0.97      | 22×25     | 0.97      |           |      |       |      |       |      | 20×30     | 0.93      | 22×25     | 0.93      |           |      |       |      |       |      |
| 120                | 20×30     | 1.08      | 22×25     | 1.08      |           |      |       |      |       |      | 20×35     | 1.04      | 22×30     | 1.04      | 25×25     | 1.04 |       |      |       |      |
| 150                | 20×35     | 1.30      | 22×30     | 1.30      | 25×25     | 1.30 |       |      |       |      | 20×40     | 1.29      | 22×35     | 1.29      | 25×25     | 1.29 |       |      |       |      |
| 180                | 20×40     | 1.48      | 22×35     | 1.48      | 25×30     | 1.48 |       |      |       |      |           |           | 22×40     | 1.40      | 25×30     | 1.40 | 30×25 | 1.40 |       |      |
| 220                |           |           | 22×40     | 1.65      | 25×35     | 1.65 | 30×25 | 1.65 |       |      |           |           | 22×45     | 1.66      | 25×35     | 1.66 | 30×25 | 1.66 |       |      |
| 270                |           |           | 22×50     | 1.94      | 25×35     | 1.94 | 30×30 | 1.94 |       |      |           |           | 22×50     | 1.81      | 25×40     | 1.81 | 30×30 | 1.81 | 35×25 | 1.81 |
| 330                |           |           |           |           | 25×45     | 2.17 | 30×35 | 2.17 | 35×30 | 2.17 |           |           |           |           | 25×45     | 2.10 | 30×35 | 2.10 | 35×30 | 2.10 |
| 390                |           |           |           |           | 25×50     | 2.27 | 30×35 | 2.27 | 35×30 | 2.27 |           |           |           |           |           |      | 30×40 | 2.32 | 35×35 | 2.32 |
| 470                |           |           |           |           |           |      | 30×40 | 2.61 | 35×35 | 2.61 |           |           |           |           |           |      | 30×45 | 2.66 | 35×40 | 2.66 |
| 560                |           |           |           |           |           |      | 30×50 | 2.82 | 35×40 | 2.82 |           |           |           |           |           |      |       |      | 35×40 | 2.82 |
| 680                |           |           |           |           |           |      |       |      | 35×45 | 3.11 |           |           |           |           |           |      |       |      | 35×50 | 3.00 |

ケースサイズ Case Size  $\phi$  D × L(mm)   
リプル電流 Ripple Current (A.r.m.s./120Hz,85°C) 