

## MXG series

105°C 3000 時間 標準品  
Load Life : 105°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～+105℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |         |      |      | -25～+105℃  |        |         |      |  |                               |                                                   |         |         |     |                 |    |        |         |     |                              |                                                            |      |      |      |      |      |      |      |      |                         |                                             |  |  |  |  |  |  |  |  |
| 定格電圧範囲<br>Rated Voltage Range                                            | 10～250Vdc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |         |      |      | 315～500Vdc |        |         |      |  |                               |                                                   |         |         |     |                 |    |        |         |     |                              |                                                            |      |      |      |      |      |      |      |      |                         |                                             |  |  |  |  |  |  |  |  |
| 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>80～100</td><td>160～450</td><td>500</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><td>0.25</td></tr></table> (20℃, 120Hz)                                                                                                                                                                                                                               |         |         |      |      |            |        |         |      |  | 定格電圧 (Vdc)<br>Rated Voltage   | 10                                                | 16      | 25      | 35  | 50              | 63 | 80～100 | 160～450 | 500 | tan δ                        | 0.55                                                       | 0.50 | 0.45 | 0.40 | 0.35 | 0.30 | 0.25 | 0.20 | 0.25 |                         |                                             |  |  |  |  |  |  |  |  |
| 定格電圧 (Vdc)<br>Rated Voltage                                              | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 16      | 25      | 35   | 50   | 63         | 80～100 | 160～450 | 500  |  |                               |                                                   |         |         |     |                 |    |        |         |     |                              |                                                            |      |      |      |      |      |      |      |      |                         |                                             |  |  |  |  |  |  |  |  |
| tan δ                                                                    | 0.55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.50    | 0.45    | 0.40 | 0.35 | 0.30       | 0.25   | 0.20    | 0.25 |  |                               |                                                   |         |         |     |                 |    |        |         |     |                              |                                                            |      |      |      |      |      |      |      |      |                         |                                             |  |  |  |  |  |  |  |  |
| 耐久性<br>Endurance                                                         | 105℃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 105℃, the capacitors shall meet the following requirements. <table><tr><td>静電容量変化率<br/>Capacitance Change</td><td colspan="9">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="9">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="9">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>315～450</td><td>500</td></tr><tr><td>Z(-25℃)/Z(+20℃)</td><td>3</td><td>4</td><td>8</td><td>10</td></tr><tr><td>Z(-40℃)/Z(+20℃)</td><td>12</td><td>15</td><td>—</td><td>—</td></tr></table> (120Hz)                                                                                                                                                                                                                                                                             |         |         |      |      |            |        |         |      |  | 定格電圧 (Vdc)<br>Rated Voltage   | 10～100                                            | 160～250 | 315～450 | 500 | Z(-25℃)/Z(+20℃) | 3  | 4      | 8       | 10  | Z(-40℃)/Z(+20℃)              | 12                                                         | 15   | —    | —    |      |      |      |      |      |                         |                                             |  |  |  |  |  |  |  |  |
| 定格電圧 (Vdc)<br>Rated Voltage                                              | 10～100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 160～250 | 315～450 | 500  |      |            |        |         |      |  |                               |                                                   |         |         |     |                 |    |        |         |     |                              |                                                            |      |      |      |      |      |      |      |      |                         |                                             |  |  |  |  |  |  |  |  |
| Z(-25℃)/Z(+20℃)                                                          | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 4       | 8       | 10   |      |            |        |         |      |  |                               |                                                   |         |         |     |                 |    |        |         |     |                              |                                                            |      |      |      |      |      |      |      |      |                         |                                             |  |  |  |  |  |  |  |  |
| Z(-40℃)/Z(+20℃)                                                          | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 15      | —       | —    |      |            |        |         |      |  |                               |                                                   |         |         |     |                 |    |        |         |     |                              |                                                            |      |      |      |      |      |      |      |      |                         |                                             |  |  |  |  |  |  |  |  |

### ◆呼称方法／PART NUMBER

|                       |                 |                     |                                  |               |                       |                     |
|-----------------------|-----------------|---------------------|----------------------------------|---------------|-----------------------|---------------------|
| □□□                   | MXG             | □□□□□               | 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

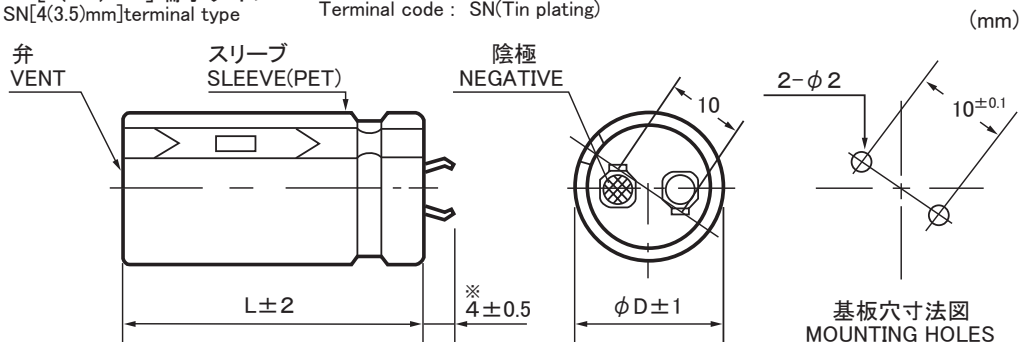
| 周波数 (Hz)<br>Frequency | 60<br>(50) | 120<br>(100) | 300  | 500  | 1k   | 10k≤ |
|-----------------------|------------|--------------|------|------|------|------|
| 10~100Vdc             | 0.90       | 1.00         | 1.03 | 1.05 | 1.10 | 1.15 |
| 160~250Vdc            | 0.80       | 1.00         | 1.15 | 1.20 | 1.30 | 1.50 |
| 315~500Vdc            | 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)



※ 但し φ 35は3.5±0.5  
For φ 35, 3.5±0.5

◆標準品一覧表／STANDARD SIZE

| Cap.<br>(μF) | 10Vdc |      |       |      |       |      |       |      |       |      | 16Vdc |      |       |      |       |      |       |      |       |      |
|--------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
|              | φ 20  | φ 22 | φ 25  | φ 30 | φ 35  | φ 20 | φ 22  | φ 25 | φ 30  | φ 35 | φ 20  | φ 22 | φ 25  | φ 30 | φ 35  | φ 20 | φ 22  | φ 25 | φ 30  | φ 35 |
| 6800         | 20×25 | 1.31 |       |      |       |      |       |      |       |      | 20×25 | 1.80 |       |      |       |      |       |      |       |      |
| 8200         | 20×30 | 1.59 |       |      |       |      |       |      |       |      | 20×30 | 2.08 | 22×25 | 2.08 |       |      |       |      |       |      |
| 10000        | 20×30 | 1.88 | 22×25 | 1.77 |       |      |       |      |       |      | 20×35 | 2.15 | 22×30 | 2.15 |       |      |       |      |       |      |
| 12000        | 20×35 | 2.18 | 22×30 | 2.10 | 25×25 | 1.94 |       |      |       |      | 20×40 | 2.31 | 22×30 | 2.31 | 25×25 | 2.31 |       |      |       |      |
| 15000        | 20×40 | 2.27 | 22×35 | 2.23 | 25×30 | 2.10 |       |      |       |      |       |      | 22×35 | 2.68 | 25×30 | 2.68 |       |      |       |      |
| 18000        |       |      | 22×40 | 2.41 | 25×30 | 2.34 | 30×25 | 2.25 |       |      |       |      | 22×40 | 3.20 | 25×30 | 3.20 | 30×25 | 3.20 |       |      |
| 22000        |       |      | 22×45 | 2.58 | 25×35 | 2.54 | 30×30 | 2.50 |       |      |       |      | 22×45 | 3.36 | 25×35 | 3.36 | 30×30 | 3.36 |       |      |
| 27000        |       |      | 22×50 | 3.17 | 25×40 | 3.07 | 30×30 | 2.95 |       |      |       |      | 22×50 | 3.85 | 25×40 | 3.85 | 30×30 | 3.85 |       |      |
| 33000        |       |      |       |      | 25×45 | 3.39 | 30×35 | 3.33 | 35×30 | 3.21 |       |      |       |      | 25×45 | 4.30 | 30×35 | 4.30 | 35×30 | 4.30 |
| 39000        |       |      |       |      |       |      | 30×40 | 3.70 | 35×35 | 3.68 |       |      |       |      | 25×50 | 4.81 | 30×40 | 4.81 | 35×35 | 4.81 |
| 47000        |       |      |       |      |       |      | 30×45 | 4.22 | 35×40 | 4.16 |       |      |       |      |       |      | 30×45 | 5.53 | 35×40 | 5.53 |
| 56000        |       |      |       |      |       |      |       |      | 35×45 | 5.00 |       |      |       |      |       |      | 30×50 | 6.00 | 35×45 | 6.00 |
| 68000        |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      | 35×50 | 6.40 |

| Cap.<br>(μF) | 25Vdc |      |       |      |       |      |       |      |       |      | 35Vdc |      |       |       |       |       |       |       |       |      |
|--------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|------|
|              | φ 20  | φ 22 | φ 25  | φ 30 | φ 35  | φ 20 | φ 22  | φ 25 | φ 30  | φ 35 | φ 20  | φ 22 | φ 25  | φ 30  | φ 35  | φ 20  | φ 22  | φ 25  | φ 30  | φ 35 |
| 2700         |       |      |       |      |       |      |       |      |       |      | 20×25 | 1.29 |       |       |       |       |       |       |       |      |
| 3300         |       |      |       |      |       |      |       |      |       |      | 20×30 | 1.57 |       |       |       |       |       |       |       |      |
| 3900         |       |      |       |      |       |      |       |      |       |      | 20×30 | 1.78 | 22×25 | 1.78  |       |       |       |       |       |      |
| 4700         | 20×25 | 1.65 |       |      |       |      |       |      |       |      | 20×35 | 2.02 | 22×30 | 2.02  |       |       |       |       |       |      |
| 5600         | 20×30 | 1.85 | 22×25 | 1.85 |       |      |       |      |       |      | 20×40 | 2.13 | 22×35 | 2.13  | 25×25 | 2.13  |       |       |       |      |
| 6800         | 20×35 | 2.11 | 22×30 | 2.11 |       |      |       |      |       |      |       |      | 22×40 | 2.41  | 25×30 | 2.41  |       |       |       |      |
| 8200         | 20×40 | 2.34 | 22×30 | 2.34 | 25×25 | 2.34 |       |      |       |      |       |      | 22×45 | 2.85  | 25×35 | 2.85  | 30×25 | 2.85  |       |      |
| 10000        |       |      | 22×35 | 2.65 | 25×30 | 2.65 |       |      |       |      |       |      | 22×50 | 3.05  | 25×40 | 3.05  | 30×30 | 3.05  |       |      |
| 12000        |       |      | 22×40 | 2.81 | 25×30 | 2.81 | 30×25 | 2.81 |       |      |       |      |       | 25×45 | 3.37  | 30×35 | 3.37  | 35×30 | 3.37  |      |
| 15000        |       |      | 22×45 | 3.13 | 25×35 | 3.13 | 30×30 | 3.13 |       |      |       |      |       | 25×50 | 3.72  | 30×40 | 3.72  | 35×35 | 3.72  |      |
| 18000        |       |      |       |      | 25×40 | 3.56 | 30×30 | 3.56 |       |      |       |      |       |       |       |       | 30×45 | 4.37  | 35×35 | 4.37 |
| 22000        |       |      |       |      | 25×50 | 4.04 | 30×35 | 4.04 | 35×30 | 4.04 |       |      |       |       |       |       | 30×50 | 4.92  | 35×40 | 4.92 |
| 27000        |       |      |       |      |       |      | 30×40 | 4.74 | 35×35 | 4.74 |       |      |       |       |       |       |       |       | 35×50 | 5.30 |
| 33000        |       |      |       |      |       |      | 30×50 | 5.50 | 35×40 | 5.50 |       |      |       |       |       |       |       |       |       |      |
| 39000        |       |      |       |      |       |      |       |      | 35×45 | 5.80 |       |      |       |       |       |       |       |       |       |      |
| 47000        |       |      |       |      |       |      |       |      | 35×50 | 6.30 |       |      |       |       |       |       |       |       |       |      |

| Cap.<br>(μF) | 50Vdc |      |       |      |       |      |       |      |       |      | 63Vdc |      |       |      |       |      |       |       |       |      |
|--------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|-------|-------|------|
|              | φ 20  | φ 22 | φ 25  | φ 30 | φ 35  | φ 20 | φ 22  | φ 25 | φ 30  | φ 35 | φ 20  | φ 22 | φ 25  | φ 30 | φ 35  | φ 20 | φ 22  | φ 25  | φ 30  | φ 35 |
| 1500         |       |      |       |      |       |      |       |      |       |      | 20×25 | 1.47 |       |      |       |      |       |       |       |      |
| 1800         |       |      |       |      |       |      |       |      |       |      | 20×30 | 1.58 |       |      |       |      |       |       |       |      |
| 2200         | 20×25 | 1.60 |       |      |       |      |       |      |       |      | 20×35 | 1.82 |       |      |       |      |       |       |       |      |
| 2700         | 20×30 | 1.73 | 22×25 | 1.73 |       |      |       |      |       |      |       |      | 22×30 | 2.11 | 25×25 | 2.11 |       |       |       |      |
| 3300         | 20×35 | 1.97 | 22×30 | 1.97 |       |      |       |      |       |      |       |      | 22×35 | 2.33 | 25×30 | 2.33 |       |       |       |      |
| 3900         | 20×40 | 2.22 | 22×35 | 2.22 | 25×25 | 2.22 |       |      |       |      |       |      | 22×40 | 2.55 | 25×30 | 2.55 | 30×25 | 2.55  |       |      |
| 4700         | 20×45 | 2.43 | 22×40 | 2.43 | 25×30 | 2.43 |       |      |       |      |       |      | 22×45 | 2.97 | 25×35 | 2.97 | 30×30 | 2.97  |       |      |
| 5600         |       |      | 22×45 | 2.75 | 25×35 | 2.75 | 30×25 | 2.75 |       |      |       |      |       |      | 25×40 | 3.22 | 30×30 | 3.22  | 35×25 | 3.22 |
| 6800         |       |      | 22×50 | 3.30 | 25×40 | 3.30 | 30×30 | 3.30 | 35×25 | 3.30 |       |      |       |      | 25×45 | 3.65 | 30×35 | 3.65  | 35×30 | 3.65 |
| 8200         |       |      |       |      | 25×45 | 3.60 | 30×35 | 3.60 | 35×30 | 3.60 |       |      |       |      |       |      | 30×40 | 4.04  | 35×35 | 4.04 |
| 10000        |       |      |       |      | 25×50 | 4.05 | 30×40 | 4.05 | 35×30 | 4.05 |       |      |       |      |       |      | 30×45 | 4.48  | 35×40 | 4.48 |
| 12000        |       |      |       |      |       |      | 30×45 | 4.56 | 35×35 | 4.56 |       |      |       |      |       |      |       | 35×45 | 4.75  |      |
| 15000        |       |      |       |      |       |      | 30×50 | 4.77 | 35×40 | 4.77 |       |      |       |      |       |      |       |       | 35×50 | 5.25 |

ケースサイズ Case Size φ D × L(mm) ↑  
リプル電流 Ripple Current (A.r.m.s./120Hz,105°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     | 1.15      |           |           |           |           |           |           |           |           |
| 820                |           |           |           |           |           |           |           |           |           |           | 20×30     | 1.32      | 22×25     | 1.32      |           |           |           |           |           |           |
| 1000               | 20×25     | 1.24      |           |           |           |           |           |           |           |           | 20×30     | 1.47      | 22×30     | 1.47      |           |           |           |           |           |           |
| 1200               | 20×30     | 1.44      | 22×25     | 1.44      |           |           |           |           |           |           | 20×35     | 1.69      | 22×30     | 1.69      | 25×25     | 1.69      |           |           |           |           |
| 1500               | 20×30     | 1.59      | 22×30     | 1.59      |           |           |           |           |           |           |           | 22×35     | 1.98      | 25×30     | 1.98      |           |           |           |           |           |
| 1800               | 20×35     | 1.79      | 22×30     | 1.79      | 25×25     | 1.79      |           |           |           |           |           | 22×40     | 2.23      | 25×35     | 2.23      | 30×25     | 2.23      |           |           |           |
| 2200               | 20×40     | 2.03      | 22×35     | 2.03      | 25×30     | 2.03      |           |           |           |           |           |           |           | 25×40     | 2.55      | 30×30     | 2.55      | 35×25     | 2.55      |           |
| 2700               |           |           | 22×40     | 2.39      | 25×35     | 2.39      | 30×25     | 2.39      |           |           |           |           |           | 25×45     | 2.89      | 30×35     | 2.89      | 35×30     | 2.89      |           |
| 3300               |           |           | 22×50     | 2.64      | 25×40     | 2.64      | 30×30     | 2.64      | 35×25     | 2.64      |           |           |           | 25×50     | 3.30      | 30×40     | 3.30      | 35×35     | 3.30      |           |
| 3900               |           |           |           |           | 25×45     | 2.97      | 30×30     | 2.97      | 35×30     | 2.97      |           |           |           |           |           | 30×45     | 3.67      | 35×35     | 3.67      |           |
| 4700               |           |           |           |           | 25×50     | 3.38      | 30×35     | 3.38      | 35×30     | 3.38      |           |           |           |           |           | 30×50     | 3.80      | 35×40     | 3.80      |           |
| 5600               |           |           |           |           |           |           | 30×40     | 3.80      | 35×35     | 3.80      |           |           |           |           |           |           |           | 35×45     | 4.05      |           |
| 6800               |           |           |           |           |           |           | 30×50     | 4.10      | 35×40     | 4.10      |           |           |           |           |           |           |           |           |           |           |
| 8200               |           |           |           |           |           |           |           |           | 35×45     | 4.30      |           |           |           |           |           |           |           |           |           |           |

| 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 |
| 330                | 20×25     | 1.32      |           |           |           |           |           |           |           |           | 20×25     | 1.32      |           |           |           |           |           |           |           |           |
| 390                | 20×25     | 1.39      |           |           |           |           |           |           |           |           | 20×30     | 1.53      | 22×25     | 1.43      |           |           |           |           |           |           |
| 470                | 20×30     | 1.62      | 22×25     | 1.51      |           |           |           |           |           |           | 20×35     | 1.75      | 22×30     | 1.67      |           |           |           |           |           |           |
| 560                | 20×35     | 1.85      | 22×30     | 1.75      |           |           |           |           |           |           | 20×40     | 1.98      | 22×30     | 1.75      | 25×25     | 1.59      |           |           |           |           |
| 680                | 20×40     | 2.09      | 22×30     | 1.83      | 25×25     | 1.70      |           |           |           |           | 20×45     | 2.22      | 22×35     | 2.01      | 25×30     | 1.86      |           |           |           |           |
| 820                | 20×50     | 2.47      | 22×35     | 2.10      | 25×30     | 2.00      |           |           |           |           |           | 22×40     | 2.27      | 25×35     | 2.14      | 30×25     | 2.00      |           |           |           |
| 1000               |           |           | 22×40     | 2.37      | 25×35     | 2.20      | 30×25     | 2.20      |           |           |           | 22×50     | 2.68      | 25×40     | 2.40      | 30×30     | 2.20      | 35×25     | 2.20      |           |
| 1200               |           |           | 22×55     | 2.98      | 25×40     | 2.50      | 30×30     | 2.30      | 35×25     | 2.30      |           | 22×60     | 3.09      | 25×45     | 2.67      | 30×35     | 2.30      | 35×30     | 2.30      |           |
| 1500               |           |           |           |           | 25×45     | 2.80      | 30×35     | 2.50      | 35×30     | 2.50      |           |           |           | 25×50     | 2.99      | 30×40     | 2.54      | 35×30     | 2.50      |           |
| 1800               |           |           |           |           | 25×60     | 3.43      | 30×40     | 2.70      | 35×35     | 2.70      |           |           |           |           |           | 30×45     | 2.79      | 35×35     | 2.70      |           |
| 2200               |           |           |           |           |           |           | 30×45     | 2.90      | 35×40     | 2.90      |           |           |           |           |           | 30×50     | 3.12      | 35×40     | 2.90      |           |
| 2700               |           |           |           |           |           |           | 30×60     | 3.58      | 35×45     | 3.10      |           |           |           |           |           |           |           | 35×50     | 3.10      |           |
| 3300               |           |           |           |           |           |           |           |           | 35×55     | 3.24      |           |           |           |           |           |           |           |           | 35×60     | 3.44      |

| 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 |
| 220                |           |           |           |           |           |           |           |           |           |           | 20×25     | 1.17      |           |           |           |           |           |           |           |           |
| 270                | 20×25     | 1.25      |           |           |           |           |           |           |           |           | 20×30     | 1.36      | 22×25     | 1.29      |           |           |           |           |           |           |
| 330                | 20×30     | 1.46      | 22×25     | 1.37      |           |           |           |           |           |           | 20×30     | 1.46      | 22×25     | 1.37      |           |           |           |           |           |           |
| 390                | 20×30     | 1.54      | 22×25     | 1.44      |           |           |           |           |           |           | 20×35     | 1.66      | 22×30     | 1.58      | 25×25     | 1.46      |           |           |           |           |
| 470                | 20×35     | 1.76      | 22×30     | 1.67      | 25×25     | 1.53      |           |           |           |           | 20×40     | 1.87      | 22×35     | 1.81      | 25×25     | 1.53      |           |           |           |           |
| 560                | 20×40     | 1.98      | 22×35     | 1.90      | 25×25     | 1.60      |           |           |           |           | 20×45     | 2.09      | 22×40     | 2.04      | 25×30     | 1.79      | 30×25     | 1.61      |           |           |
| 680                | 20×50     | 2.34      | 22×40     | 2.15      | 25×30     | 1.85      | 30×25     | 1.75      |           |           |           | 22×45     | 2.29      | 25×35     | 2.05      | 30×25     | 1.78      |           |           |           |
| 820                |           |           | 22×45     | 2.41      | 25×35     | 2.12      | 30×25     | 2.04      |           |           |           | 22×50     | 2.54      | 25×40     | 2.31      | 30×30     | 1.93      | 35×25     | 1.93      |           |
| 1000               |           |           | 22×55     | 2.84      | 25×45     | 2.58      | 30×30     | 2.30      |           |           |           |           |           | 25×50     | 2.72      | 30×35     | 2.33      | 35×30     | 2.33      |           |
| 1200               |           |           |           |           | 25×50     | 2.84      | 30×35     | 2.65      | 35×30     | 2.65      |           |           |           | 25×55     | 2.96      | 30×40     | 2.50      | 35×35     | 2.50      |           |
| 1500               |           |           |           |           | 25×60     | 3.28      | 30×45     | 2.80      | 35×35     | 2.80      |           |           |           |           |           | 30×50     | 2.92      | 35×40     | 2.76      |           |
| 1800               |           |           |           |           |           |           | 30×50     | 3.08      | 35×40     | 3.08      |           |           |           |           |           | 30×60     | 3.38      | 35×45     | 3.11      |           |
| 2200               |           |           |           |           |           |           | 30×60     | 3.45      | 35×45     | 3.48      |           |           |           |           |           |           |           | 35×55     | 3.67      |           |
| 2700               |           |           |           |           |           |           |           |           | 35×55     | 4.05      |           |           |           |           |           |           |           |           |           |           |

| Cap.<br>( $\mu$ F) | 250Vdc    |           |           |           |           |           |           |           |           |           | 315Vdc    |           |           |           |           |           |           |           |           |           |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    | $\phi$ 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 |
| 120                |           |           |           |           |           |           |           |           |           |           | 20×25     | 0.86      |           |           |           |           |           |           |           |           |
| 150                |           |           |           |           |           |           |           |           |           |           | 20×30     | 1.00      | 22×25     | 0.98      |           |           |           |           |           |           |
| 180                |           |           |           |           |           |           |           |           |           |           | 20×35     | 1.14      | 22×30     | 1.13      |           |           |           |           |           |           |
| 220                | 20×25     | 1.17      |           |           |           |           |           |           |           |           | 20×40     | 1.30      | 22×30     | 1.22      | 25×25     | 1.17      |           |           |           |           |
| 270                | 20×30     | 1.36      | 22×25     | 1.30      |           |           |           |           |           |           | 20×45     | 1.48      | 22×35     | 1.40      | 25×30     | 1.37      |           |           |           |           |
| 330                | 20×35     | 1.57      | 22×30     | 1.51      | 25×25     | 1.41      |           |           |           |           | 20×50     | 1.67      | 22×40     | 1.59      | 25×35     | 1.56      | 30×25     | 1.38      |           |           |
| 390                | 20×40     | 1.76      | 22×35     | 1.71      | 25×25     | 1.47      |           |           |           |           |           |           | 22×50     | 1.84      | 25×35     | 1.65      | 30×30     | 1.60      | 35×25     | 1.44      |
| 470                | 20×45     | 1.98      | 22×40     | 1.94      | 25×30     | 1.71      | 30×25     | 1.57      |           |           |           |           | 22×55     | 2.05      | 25×45     | 1.96      | 30×35     | 1.83      | 35×30     | 1.71      |
| 560                |           |           | 22×45     | 2.16      | 25×35     | 1.95      | 30×25     | 1.60      |           |           |           |           |           |           | 25×50     | 2.17      | 30×35     | 1.89      | 35×30     | 1.72      |
| 680                |           |           | 22×50     | 2.40      | 25×40     | 2.20      | 30×30     | 1.87      | 35×25     | 1.70      |           |           |           |           | 25×55     | 2.41      | 30×40     | 2.12      | 35×35     | 1.98      |
| 820                |           |           | 22×60     | 2.77      | 25×45     | 2.45      | 30×35     | 2.14      | 35×30     | 2.00      |           |           |           |           |           | 30×50     | 2.51      | 35×40     | 2.22      |           |
| 1000               |           |           |           |           | 25×55     | 2.87      | 30×40     | 2.40      | 35×35     | 2.20      |           |           |           |           |           | 30×55     | 2.75      | 35×45     | 2.45      |           |
| 1200               |           |           |           |           |           |           | 30×45     | 2.65      | 35×35     | 2.30      |           |           |           |           |           |           |           | 35×50     | 2.67      |           |
| 1500               |           |           |           |           |           |           | 30×55     | 3.12      | 35×45     | 2.67      |           |           |           |           |           |           |           |           | 35×60     | 3.08      |
| 1800               |           |           |           |           |           |           |           |           | 35×50     | 2.89      |           |           |           |           |           |           |           |           |           |           |
| 2200               |           |           |           |           |           |           |           |           | 35×60     | 3.32      |           |           |           |           |           |           |           |           |           |           |

ケースサイズ Case Size  $\phi$  D × L(mm)  $\nearrow$   
 リプル電流 Ripple Current (A.r.m.s./120Hz, 105°C)  $\nearrow$

### ◆標準品一覧表／STANDARD SIZE

| Cap.<br>( $\mu$ F) | 350Vdc    |           |           |           |           |           |           |           |           |           | 385Vdc    |           |           |           |           |           |           |           |           |           |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    | $\phi$ 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 |
| 100                | 20×25     | 0.81      |           |           |           |           |           |           |           |           | 20×25     | 0.81      |           |           |           |           |           |           |           |           |
| 120                | 20×30     | 0.93      | 22×25     | 0.91      |           |           |           |           |           |           | 20×30     | 0.94      | 22×25     | 0.91      |           |           |           |           |           |           |
| 150                | 20×35     | 1.08      | 22×30     | 1.06      |           |           |           |           |           |           | 20×35     | 1.08      | 22×30     | 1.07      |           |           |           |           |           |           |
| 180                | 20×40     | 1.22      | 22×30     | 1.14      | 25×25     | 1.10      |           |           |           |           | 20×40     | 1.22      | 22×35     | 1.21      | 25×25     | 1.11      |           |           |           |           |
| 220                | 20×45     | 1.38      | 22×35     | 1.31      | 25×30     | 1.28      |           |           |           |           | 20×45     | 1.39      | 22×40     | 1.38      | 25×30     | 1.29      | 30×25     | 1.25      |           |           |
| 270                | 20×50     | 1.56      | 22×45     | 1.55      | 25×35     | 1.47      | 30×25     | 1.31      |           |           |           |           | 22×45     | 1.56      | 25×35     | 1.47      | 30×30     | 1.46      |           |           |
| 330                |           |           | 22×50     | 1.75      | 25×40     | 1.67      | 30×30     | 1.53      | 35×25     | 1.39      |           |           | 22×55     | 1.81      | 25×40     | 1.67      | 30×30     | 1.53      | 35×25     | 1.37      |
| 390                |           |           | 22×55     | 1.93      | 25×45     | 1.86      | 30×35     | 1.74      | 35×30     | 1.63      |           |           | 22×60     | 2.00      | 25×50     | 1.94      | 30×35     | 1.73      | 35×30     | 1.62      |
| 470                |           |           |           |           | 25×50     | 2.06      | 30×40     | 1.96      | 35×30     | 1.66      |           |           |           |           | 25×55     | 2.15      | 30×40     | 1.94      | 35×35     | 1.84      |
| 560                |           |           |           |           | 25×55     | 2.27      | 30×45     | 2.17      | 35×35     | 1.90      |           |           |           |           |           |           | 30×45     | 2.15      | 35×40     | 2.07      |
| 680                |           |           |           |           |           |           | 30×50     | 2.40      | 35×40     | 2.13      |           |           |           |           |           |           | 30×55     | 2.51      | 35×45     | 2.29      |
| 820                |           |           |           |           |           |           | 30×55     | 2.62      | 35×45     | 2.36      |           |           |           |           |           |           |           |           | 35×50     | 2.50      |
| 1000               |           |           |           |           |           |           |           |           | 35×55     | 2.77      |           |           |           |           |           |           |           |           | 35×60     | 2.89      |
| 1200               |           |           |           |           |           |           |           |           | 35×60     | 2.97      |           |           |           |           |           |           |           |           |           |           |

| Cap.<br>( $\mu$ F) | 400Vdc    |           |           |           |           |           |           |           |           |           | 420Vdc    |           |           |           |           |           |           |           |           |           |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    | $\phi$ 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 |
| 68                 | 20×25     | 0.69      |           |           |           |           |           |           |           |           | 20×25     | 0.69      |           |           |           |           |           |           |           |           |
| 82                 | 20×25     | 0.75      | 22×25     | 0.78      |           |           |           |           |           |           | 20×25     | 0.75      | 22×25     | 0.78      |           |           |           |           |           |           |
| 100                | 20×30     | 0.87      | 22×25     | 0.85      |           |           |           |           |           |           | 20×30     | 0.86      | 22×25     | 0.85      | 25×25     | 0.88      |           |           |           |           |
| 120                | 20×35     | 0.99      | 22×30     | 0.97      | 25×25     | 0.96      |           |           |           |           | 20×35     | 0.98      | 22×30     | 0.97      | 25×25     | 0.95      |           |           |           |           |
| 150                | 20×40     | 1.13      | 22×35     | 1.13      | 25×25     | 1.04      |           |           |           |           | 20×40     | 1.13      | 22×35     | 1.12      | 25×30     | 1.11      | 30×25     | 1.10      |           |           |
| 180                | 20×40     | 1.23      | 22×35     | 1.22      | 25×30     | 1.20      | 30×25     | 1.18      |           |           | 20×45     | 1.27      | 22×40     | 1.27      | 25×30     | 1.19      | 30×25     | 1.16      |           |           |
| 220                | 20×50     | 1.44      | 22×45     | 1.44      | 25×35     | 1.37      | 30×25     | 1.25      |           |           |           |           | 22×45     | 1.43      | 25×35     | 1.36      | 30×30     | 1.35      | 35×25     | 1.27      |
| 270                |           |           | 22×50     | 1.62      | 25×40     | 1.56      | 30×30     | 1.45      | 35×25     | 1.34      |           |           | 22×50     | 1.62      | 25×40     | 1.55      | 30×30     | 1.43      | 35×25     | 1.30      |
| 330                |           |           | 22×55     | 1.82      | 25×45     | 1.76      | 30×35     | 1.66      | 35×30     | 1.57      |           |           | 22×60     | 1.86      | 25×50     | 1.74      | 30×35     | 1.64      | 35×30     | 1.54      |
| 390                |           |           |           |           | 25×50     | 1.94      | 30×40     | 1.86      | 35×30     | 1.60      |           |           |           |           | 25×55     | 2.00      | 30×40     | 1.83      | 35×35     | 1.75      |
| 470                |           |           |           |           | 25×55     | 2.15      | 30×45     | 2.07      | 35×35     | 1.83      |           |           |           |           | 25×60     | 2.21      | 30×45     | 2.04      | 35×40     | 1.97      |
| 560                |           |           |           |           |           |           | 30×50     | 2.28      | 35×40     | 2.05      |           |           |           |           |           |           | 30×55     | 2.35      | 35×45     | 2.18      |
| 680                |           |           |           |           |           |           | 30×55     | 2.50      | 35×45     | 2.27      |           |           |           |           |           |           | 30×60     | 2.57      | 35×50     | 2.39      |
| 820                |           |           |           |           |           |           |           |           | 35×55     | 2.65      |           |           |           |           |           |           |           |           | 35×55     | 2.59      |

| Cap.<br>( $\mu$ F) | 450Vdc    |           |           |           |           |           |           |           |           |           | 500Vdc    |           |           |           |           |           |           |           |           |           |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    | $\phi$ 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 |
| 39                 |           |           |           |           |           |           |           |           |           |           | 20×25     | 0.51      |           |           |           |           |           |           |           |           |
| 47                 |           |           |           |           |           |           |           |           |           |           | 20×30     | 0.59      | 22×25     | 0.58      |           |           |           |           |           |           |
| 56                 | 20×25     | 0.63      |           |           |           |           |           |           |           |           | 20×35     | 0.67      | 22×30     | 0.66      |           |           |           |           |           |           |
| 68                 | 20×25     | 0.69      | 22×25     | 0.72      |           |           |           |           |           |           | 20×40     | 0.76      | 22×30     | 0.73      | 25×25     | 0.72      |           |           |           |           |
| 82                 | 20×30     | 0.80      | 22×25     | 0.78      |           |           |           |           |           |           | 20×45     | 0.85      | 22×35     | 0.83      | 25×30     | 0.83      | 30×25     | 0.83      |           |           |
| 100                | 20×35     | 0.91      | 22×30     | 0.90      | 25×25     | 0.89      |           |           |           |           |           |           | 22×40     | 0.94      | 25×35     | 0.94      | 30×25     | 0.91      |           |           |
| 120                | 20×35     | 0.99      | 22×30     | 0.98      | 25×25     | 0.95      |           |           |           |           |           |           | 22×50     | 1.08      | 25×35     | 1.02      | 30×30     | 1.04      | 35×25     | 1.01      |
| 150                | 20×45     | 1.18      | 22×35     | 1.13      | 25×30     | 1.11      | 30×25     | 1.10      |           |           |           |           | 22×55     | 1.24      | 25×45     | 1.21      | 30×35     | 1.19      | 35×30     | 1.18      |
| 180                |           |           | 22×40     | 1.27      | 25×35     | 1.27      | 30×25     | 1.16      |           |           |           |           | 22×60     | 1.38      | 25×50     | 1.36      | 30×40     | 1.34      | 35×30     | 1.25      |
| 220                |           |           | 22×50     | 1.49      | 25×40     | 1.44      | 30×30     | 1.35      | 35×25     | 1.26      |           |           |           |           | 25×55     | 1.52      | 30×45     | 1.51      | 35×40     | 1.51      |
| 270                |           |           | 22×55     | 1.68      | 25×45     | 1.62      | 30×35     | 1.55      | 35×30     | 1.48      |           |           |           |           |           |           | 30×50     | 1.69      | 35×40     | 1.62      |
| 330                |           |           |           |           | 25×50     | 1.82      | 30×40     | 1.75      | 35×30     | 1.52      |           |           |           |           |           |           | 30×55     | 1.89      | 35×45     | 1.81      |
| 390                |           |           |           |           | 25×60     | 2.07      | 30×45     | 1.93      | 35×35     | 1.74      |           |           |           |           |           |           |           |           | 35×55     | 2.08      |
| 470                |           |           |           |           |           |           | 30×50     | 2.14      | 35×40     | 1.95      |           |           |           |           |           |           |           |           | 35×60     | 2.28      |
| 560                |           |           |           |           |           |           | 30×55     | 2.34      | 35×45     | 2.16      |           |           |           |           |           |           |           |           |           |           |
| 680                |           |           |           |           |           |           |           |           | 35×55     | 2.51      |           |           |           |           |           |           |           |           |           |           |
| 820                |           |           |           |           |           |           |           |           | 35×60     | 2.71      |           |           |           |           |           |           |           |           |           |           |

ケースサイズ Case Size  $\phi$  D × L(mm)  $\longrightarrow$   
 リプル電流 Ripple Current (A.r.m.s./120Hz, 105°C)  $\longrightarrow$