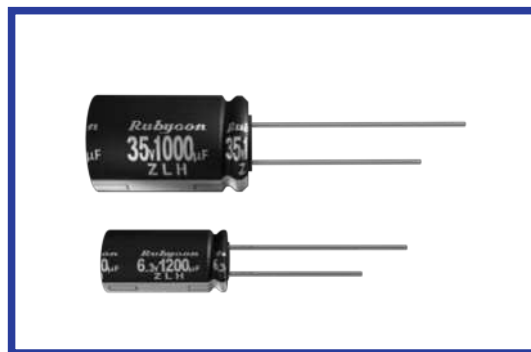


## ZLH series

105°C 6000~10000時間品 小形化 長寿命 低インピーダンス品  
105°C 6000~10000 hours, Miniaturized, Long Life, Low Impedance



### ◆規格表／SPECIFICATIONS

| 項目 Item                                                                  | 特性 Characteristics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                               |                                                                                          |                     |                      |                              |                                                            |         |      |                         |                                             |              |                 |      |      |        |       |      |      |      |      |      |  |                 |   |   |   |   |   |   |   |   |   |  |
|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------------------------------------------------------------------------------------|---------------------|----------------------|------------------------------|------------------------------------------------------------|---------|------|-------------------------|---------------------------------------------|--------------|-----------------|------|------|--------|-------|------|------|------|------|------|--|-----------------|---|---|---|---|---|---|---|---|---|--|
| カテゴリ温度範囲<br>Category Temperature Range                                   | -40～+105℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                               |                                                                                          |                     |                      |                              |                                                            |         |      |                         |                                             |              |                 |      |      |        |       |      |      |      |      |      |  |                 |   |   |   |   |   |   |   |   |   |  |
| 定格電圧範囲<br>Rated Voltage Range                                            | 6.3～100Vdc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                               |                                                                                          |                     |                      |                              |                                                            |         |      |                         |                                             |              |                 |      |      |        |       |      |      |      |      |      |  |                 |   |   |   |   |   |   |   |   |   |  |
| 静電容量許容差<br>Capacitance Tolerance                                         | ±20%(20℃, 120Hz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                               |                                                                                          |                     |                      |                              |                                                            |         |      |                         |                                             |              |                 |      |      |        |       |      |      |      |      |      |  |                 |   |   |   |   |   |   |   |   |   |  |
| 漏れ電流<br>Leakage Current (MAX)                                            | I=0.01CV又は3μAのいずれか大なる値以下(定格電圧印加2分後)<br>I=0.01CV or 3μA whichever is greater. (After 2 minutes)<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>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>80</td><td>100</td><td>(20℃, 120Hz)</td></tr><tr><td>tan δ</td><td>0.22</td><td>0.19</td><td>0.16</td><td>0.14</td><td>0.12</td><td>0.10</td><td>0.09</td><td>0.08</td><td>0.08</td><td></td></tr></table> <p>1000μFを越えるものは1000μF増す毎に上表の値に0.02を加えた値とする。<br/>When capacitance is over 1000μF, tan δ shall be added 0.02 to the listed value with increase of every 1000μF.</p>                                                                                                                                                                                                                                            | 定格電圧(Vdc)<br>Rated Voltage    | 6.3                                                                                      | 10                  | 16                   | 25                           | 35                                                         | 50      | 63   | 80                      | 100                                         | (20℃, 120Hz) | tan δ           | 0.22 | 0.19 | 0.16   | 0.14  | 0.12 | 0.10 | 0.09 | 0.08 | 0.08 |  |                 |   |   |   |   |   |   |   |   |   |  |
| 定格電圧(Vdc)<br>Rated Voltage                                               | 6.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10                            | 16                                                                                       | 25                  | 35                   | 50                           | 63                                                         | 80      | 100  | (20℃, 120Hz)            |                                             |              |                 |      |      |        |       |      |      |      |      |      |  |                 |   |   |   |   |   |   |   |   |   |  |
| tan δ                                                                    | 0.22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.19                          | 0.16                                                                                     | 0.14                | 0.12                 | 0.10                         | 0.09                                                       | 0.08    | 0.08 |                         |                                             |              |                 |      |      |        |       |      |      |      |      |      |  |                 |   |   |   |   |   |   |   |   |   |  |
| 耐久性<br>Endurance                                                         | <p>105℃中で右表の時間定格電圧(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 specified time at 105℃, the capacitors shall meet the following requirements.</p> <table><tr><td>静電容量変化率<br/>Capacitance Change</td><td>初期値の±25%以内(6.3Vdc, 10Vdc: ±30%)<br/>Within ±25% of the initial value(6.3Vdc, 10Vdc: ±30%)</td><td>ケースサイズ<br/>Case Size</td><td>時間(hrs)<br/>Time(hrs)</td></tr><tr><td>損失角の正接<br/>Dissipation Factor</td><td>規格値の 200% 以下<br/>Not more than 200% of the specified value.</td><td>φD≤ 6.3</td><td>6000</td></tr><tr><td>漏れ電流<br/>Leakage Current</td><td>規格値以下<br/>Not more than the specified value.</td><td>φD=8</td><td>8000</td></tr><tr><td></td><td></td><td>φD≥ 10</td><td>10000</td></tr></table> | 静電容量変化率<br>Capacitance Change | 初期値の±25%以内(6.3Vdc, 10Vdc: ±30%)<br>Within ±25% of the initial value(6.3Vdc, 10Vdc: ±30%) | ケースサイズ<br>Case Size | 時間(hrs)<br>Time(hrs) | 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. | φD≤ 6.3 | 6000 | 漏れ電流<br>Leakage Current | 規格値以下<br>Not more than the specified value. | φD=8         | 8000            |      |      | φD≥ 10 | 10000 |      |      |      |      |      |  |                 |   |   |   |   |   |   |   |   |   |  |
| 静電容量変化率<br>Capacitance Change                                            | 初期値の±25%以内(6.3Vdc, 10Vdc: ±30%)<br>Within ±25% of the initial value(6.3Vdc, 10Vdc: ±30%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ケースサイズ<br>Case Size           | 時間(hrs)<br>Time(hrs)                                                                     |                     |                      |                              |                                                            |         |      |                         |                                             |              |                 |      |      |        |       |      |      |      |      |      |  |                 |   |   |   |   |   |   |   |   |   |  |
| 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | φD≤ 6.3                       | 6000                                                                                     |                     |                      |                              |                                                            |         |      |                         |                                             |              |                 |      |      |        |       |      |      |      |      |      |  |                 |   |   |   |   |   |   |   |   |   |  |
| 漏れ電流<br>Leakage Current                                                  | 規格値以下<br>Not more than the specified value.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | φD=8                          | 8000                                                                                     |                     |                      |                              |                                                            |         |      |                         |                                             |              |                 |      |      |        |       |      |      |      |      |      |  |                 |   |   |   |   |   |   |   |   |   |  |
|                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | φD≥ 10                        | 10000                                                                                    |                     |                      |                              |                                                            |         |      |                         |                                             |              |                 |      |      |        |       |      |      |      |      |      |  |                 |   |   |   |   |   |   |   |   |   |  |
| 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>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>80</td><td>100</td><td>(120Hz)</td></tr><tr><td>Z(-25℃)/Z(+20℃)</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td></td></tr><tr><td>Z(-40℃)/Z(+20℃)</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td></td></tr></table>                                                                                                                                                                                                                                                                                                 | 定格電圧(Vdc)<br>Rated Voltage    | 6.3                                                                                      | 10                  | 16                   | 25                           | 35                                                         | 50      | 63   | 80                      | 100                                         | (120Hz)      | Z(-25℃)/Z(+20℃) | 2    | 2    | 2      | 2     | 2    | 2    | 2    | 2    | 2    |  | Z(-40℃)/Z(+20℃) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |  |
| 定格電圧(Vdc)<br>Rated Voltage                                               | 6.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10                            | 16                                                                                       | 25                  | 35                   | 50                           | 63                                                         | 80      | 100  | (120Hz)                 |                                             |              |                 |      |      |        |       |      |      |      |      |      |  |                 |   |   |   |   |   |   |   |   |   |  |
| Z(-25℃)/Z(+20℃)                                                          | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2                             | 2                                                                                        | 2                   | 2                    | 2                            | 2                                                          | 2       | 2    |                         |                                             |              |                 |      |      |        |       |      |      |      |      |      |  |                 |   |   |   |   |   |   |   |   |   |  |
| Z(-40℃)/Z(+20℃)                                                          | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3                             | 3                                                                                        | 3                   | 3                    | 3                            | 3                                                          | 3       | 3    |                         |                                             |              |                 |      |      |        |       |      |      |      |      |      |  |                 |   |   |   |   |   |   |   |   |   |  |

### ◆呼称方法／PART NUMBER

|                       |                 |                     |                                  |               |                         |                     |
|-----------------------|-----------------|---------------------|----------------------------------|---------------|-------------------------|---------------------|
| □□□                   | ZLH             | □□□□□               | M                                | □□□           | □□                      | 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 | リード加工記号<br>Lead Forming | ケースサイズ<br>Case Size |

### ◆リップル電流補正係数／

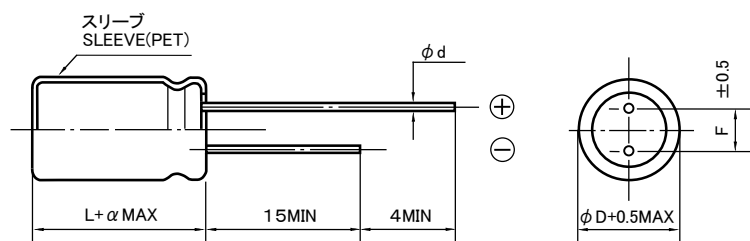
#### MULTIPLIER FOR RIPPLE CURRENT

| 周波数 (Hz)<br>Frequency |              | 120  | 1k   | 10k  | 100k≤ |
|-----------------------|--------------|------|------|------|-------|
| 係数<br>Coefficient     | 8.2~33 μF    | 0.42 | 0.70 | 0.90 | 1.00  |
|                       | 47~270 μF    | 0.50 | 0.73 | 0.92 | 1.00  |
|                       | 330~680 μF   | 0.55 | 0.77 | 0.94 | 1.00  |
|                       | 820~1800 μF  | 0.60 | 0.80 | 0.96 | 1.00  |
|                       | 2200~8200 μF | 0.70 | 0.85 | 0.98 | 1.00  |

### ◆副記号／OPTION

EFC : PETスリーブ PET Sleeve

◆寸法図／DIMENSIONS



(mm)

|          |                                                           |     |     |     |      |     |    |
|----------|-----------------------------------------------------------|-----|-----|-----|------|-----|----|
| $\phi D$ | 5                                                         | 6.3 | 8   | 10  | 12.5 | 16  | 18 |
| $\phi d$ | 0.5                                                       |     | 0.6 |     |      | 0.8 |    |
| F        | 2.0                                                       | 2.5 | 3.5 | 5.0 |      | 7.5 |    |
| $\alpha$ | $L \leq 16 : \alpha = 1.5 \quad L \geq 20 : \alpha = 2.0$ |     |     |     |      |     |    |

◆標準品一覧表／STANDARD SIZE

Rated Ripple Current (mA r.m.s./105°C, 100kHz)

| 定格電圧<br>Rated Voltage<br>(Vdc) | 静電容量<br>Capacitance<br>(μF) | 外形寸法<br>Size<br>φD × L (mm) | 定格リプル<br>電流<br>Rated Ripple<br>Current | インピーダンス<br>(Ω MAX)<br>Impedance |               |
|--------------------------------|-----------------------------|-----------------------------|----------------------------------------|---------------------------------|---------------|
|                                |                             |                             |                                        | 20°C, 100kHz                    | -10°C, 100kHz |
| 6.3                            | 220                         | 5×11                        | 345                                    | 0.22                            | 0.80          |
|                                | 470                         | 6.3×11                      | 540                                    | 0.094                           | 0.35          |
|                                | 820                         | 8×11.5                      | 945                                    | 0.056                           | 0.19          |
|                                | 1200                        | 8×16                        | 1250                                   | 0.045                           | 0.15          |
|                                | 1200                        | 10×12.5                     | 1330                                   | 0.039                           | 0.14          |
|                                | 1500                        | 8×20                        | 1500                                   | 0.029                           | 0.11          |
|                                | 1800                        | 10×16                       | 1760                                   | 0.028                           | 0.10          |
|                                | 2200                        | 10×20                       | 1960                                   | 0.020                           | 0.060         |
|                                | 2700                        | 10×23                       | 2250                                   | 0.018                           | 0.054         |
|                                | 3900                        | 12.5×20                     | 2480                                   | 0.017                           | 0.043         |
|                                | 4700                        | 12.5×25                     | 2900                                   | 0.015                           | 0.038         |
|                                | 5600                        | 12.5×30                     | 3450                                   | 0.013                           | 0.033         |
|                                | 6800                        | 16×20                       | 3250                                   | 0.015                           | 0.038         |
|                                | 6800                        | 12.5×35                     | 3570                                   | 0.012                           | 0.031         |
| 10                             | 8200                        | 16×25                       | 3630                                   | 0.013                           | 0.035         |
|                                | 150                         | 5×11                        | 345                                    | 0.22                            | 0.80          |
|                                | 330                         | 6.3×11                      | 540                                    | 0.094                           | 0.35          |
|                                | 680                         | 8×11.5                      | 945                                    | 0.056                           | 0.19          |
|                                | 1000                        | 8×16                        | 1250                                   | 0.045                           | 0.15          |
|                                | 1000                        | 10×12.5                     | 1330                                   | 0.039                           | 0.14          |
|                                | 1500                        | 8×20                        | 1500                                   | 0.029                           | 0.11          |
|                                | 1500                        | 10×16                       | 1760                                   | 0.028                           | 0.10          |
|                                | 1800                        | 10×20                       | 1960                                   | 0.020                           | 0.060         |
|                                | 2200                        | 10×23                       | 2250                                   | 0.018                           | 0.054         |
|                                | 3300                        | 12.5×20                     | 2480                                   | 0.017                           | 0.043         |
|                                | 3900                        | 12.5×25                     | 2900                                   | 0.015                           | 0.038         |
|                                | 4700                        | 12.5×30                     | 3450                                   | 0.013                           | 0.033         |
|                                | 4700                        | 16×20                       | 3250                                   | 0.015                           | 0.038         |
| 16                             | 5600                        | 12.5×35                     | 3570                                   | 0.012                           | 0.031         |
|                                | 6800                        | 16×25                       | 3630                                   | 0.013                           | 0.035         |
|                                | 100                         | 5×11                        | 345                                    | 0.22                            | 0.80          |
|                                | 220                         | 6.3×11                      | 540                                    | 0.094                           | 0.35          |
|                                | 470                         | 8×11.5                      | 945                                    | 0.056                           | 0.19          |
|                                | 680                         | 8×16                        | 1250                                   | 0.045                           | 0.15          |
|                                | 680                         | 10×12.5                     | 1330                                   | 0.039                           | 0.14          |
|                                | 1000                        | 8×20                        | 1500                                   | 0.029                           | 0.11          |
|                                | 1000                        | 10×16                       | 1760                                   | 0.028                           | 0.10          |
|                                | 1500                        | 10×20                       | 1960                                   | 0.020                           | 0.06          |
|                                | 1800                        | 10×23                       | 2250                                   | 0.018                           | 0.054         |
|                                | 2200                        | 12.5×20                     | 2480                                   | 0.017                           | 0.043         |
|                                | 2700                        | 12.5×25                     | 2900                                   | 0.015                           | 0.038         |
|                                | 3300                        | 12.5×30                     | 3450                                   | 0.013                           | 0.033         |
|                                | 3300                        | 16×20                       | 3250                                   | 0.015                           | 0.038         |
|                                | 3900                        | 12.5×35                     | 3570                                   | 0.012                           | 0.031         |
|                                | 4700                        | 16×25                       | 3630                                   | 0.013                           | 0.035         |

| 定格電圧<br>Rated Voltage<br>(Vdc) | 静電容量<br>Capacitance<br>(μF) | 外形寸法<br>Size<br>φD × L (mm) | 定格リプル<br>電流<br>Rated Ripple<br>Current | インピーダンス<br>(Ω MAX)<br>Impedance |               |
|--------------------------------|-----------------------------|-----------------------------|----------------------------------------|---------------------------------|---------------|
|                                |                             |                             |                                        | 20°C, 100kHz                    | -10°C, 100kHz |
| 25                             | 68                          | 5×11                        | 345                                    | 0.220                           | 0.80          |
|                                | 150                         | 6.3×11                      | 540                                    | 0.094                           | 0.35          |
|                                | 330                         | 8×11.5                      | 945                                    | 0.056                           | 0.19          |
|                                | 390                         | 8×16                        | 1250                                   | 0.045                           | 0.15          |
|                                | 470                         | 10×12.5                     | 1330                                   | 0.039                           | 0.14          |
|                                | 560                         | 8×20                        | 1500                                   | 0.029                           | 0.11          |
|                                | 680                         | 10×16                       | 1760                                   | 0.028                           | 0.10          |
|                                | 820                         | 10×20                       | 1960                                   | 0.020                           | 0.060         |
|                                | 1000                        | 10×23                       | 2250                                   | 0.018                           | 0.054         |
|                                | 1500                        | 12.5×20                     | 2480                                   | 0.017                           | 0.043         |
|                                | 1800                        | 12.5×25                     | 2900                                   | 0.015                           | 0.038         |
|                                | 2200                        | 12.5×30                     | 3450                                   | 0.013                           | 0.033         |
|                                | 2200                        | 16×20                       | 3250                                   | 0.015                           | 0.038         |
|                                | 2700                        | 12.5×35                     | 3570                                   | 0.012                           | 0.031         |
| 35                             | 3300                        | 16×25                       | 3630                                   | 0.013                           | 0.035         |
|                                | 47                          | 5×11                        | 345                                    | 0.220                           | 0.80          |
|                                | 100                         | 6.3×11                      | 540                                    | 0.094                           | 0.35          |
|                                | 220                         | 8×11.5                      | 945                                    | 0.056                           | 0.19          |
|                                | 270                         | 8×16                        | 1250                                   | 0.045                           | 0.15          |
|                                | 330                         | 10×12.5                     | 1330                                   | 0.039                           | 0.14          |
|                                | 390                         | 8×20                        | 1500                                   | 0.029                           | 0.11          |
|                                | 470                         | 10×16                       | 1760                                   | 0.028                           | 0.10          |
|                                | 560                         | 10×20                       | 1960                                   | 0.020                           | 0.060         |
|                                | 680                         | 10×23                       | 2250                                   | 0.018                           | 0.054         |
|                                | 1000                        | 12.5×20                     | 2480                                   | 0.017                           | 0.043         |
|                                | 1200                        | 12.5×25                     | 2900                                   | 0.015                           | 0.038         |
|                                | 1500                        | 12.5×30                     | 3450                                   | 0.013                           | 0.033         |
|                                | 1500                        | 16×20                       | 3250                                   | 0.015                           | 0.038         |
| 50                             | 1800                        | 12.5×35                     | 3570                                   | 0.012                           | 0.031         |
|                                | 2200                        | 16×25                       | 3630                                   | 0.013                           | 0.035         |
|                                | 27                          | 5×11                        | 238                                    | 0.34                            | 1.18          |
|                                | 56                          | 6.3×11                      | 385                                    | 0.14                            | 0.50          |
|                                | 100                         | 8×11.5                      | 724                                    | 0.074                           | 0.22          |
|                                | 120                         | 8×16                        | 950                                    | 0.061                           | 0.18          |
|                                | 150                         | 10×12.5                     | 979                                    | 0.061                           | 0.18          |
|                                | 180                         | 8×20                        | 1190                                   | 0.046                           | 0.14          |
|                                | 220                         | 10×16                       | 1370                                   | 0.042                           | 0.12          |
|                                | 270                         | 10×20                       | 1580                                   | 0.030                           | 0.09          |
|                                | 330                         | 10×23                       | 1870                                   | 0.028                           | 0.085         |
|                                | 470                         | 12.5×20                     | 2050                                   | 0.027                           | 0.068         |
|                                | 560                         | 12.5×25                     | 2410                                   | 0.023                           | 0.059         |
|                                | 680                         | 12.5×30                     | 2860                                   | 0.021                           | 0.052         |
|                                | 820                         | 12.5×35                     | 2960                                   | 0.019                           | 0.051         |
|                                | 820                         | 16×20                       | 2730                                   | 0.023                           | 0.059         |
|                                | 1000                        | 16×25                       | 3010                                   | 0.021                           | 0.056         |

### ◆標準品一覧表／STANDARD SIZE

Rated Ripple Current (mA r.m.s./105°C, 100kHz)

| 定格電圧<br>Rated Voltage<br>(Vdc) | 静電容量<br>Capacitance<br>( $\mu$ F) | 外形寸法<br>Size<br>$\phi$ D $\times$ L (mm) | 定格リプル電流<br>Rated Ripple Current | インピーダンス<br>( $\Omega$ MAX)<br>Impedance |               |
|--------------------------------|-----------------------------------|------------------------------------------|---------------------------------|-----------------------------------------|---------------|
|                                |                                   |                                          |                                 | 20°C, 100kHz                            | -10°C, 100kHz |
| 63                             | 18                                | 5 $\times$ 11                            | 173                             | 0.88                                    | 3.5           |
|                                | 47                                | 6.3 $\times$ 11                          | 278                             | 0.35                                    | 1.4           |
|                                | 82                                | 8 $\times$ 11.5                          | 525                             | 0.22                                    | 0.88          |
|                                | 100                               | 8 $\times$ 16                            | 688                             | 0.16                                    | 0.64          |
|                                | 120                               | 10 $\times$ 12.5                         | 725                             | 0.15                                    | 0.6           |
|                                | 150                               | 8 $\times$ 20                            | 861                             | 0.12                                    | 0.48          |
|                                | 180                               | 10 $\times$ 16                           | 998                             | 0.11                                    | 0.44          |
|                                | 270                               | 10 $\times$ 20                           | 1200                            | 0.078                                   | 0.31          |
|                                | 270                               | 12.5 $\times$ 16                         | 1200                            | 0.082                                   | 0.27          |
|                                | 330                               | 10 $\times$ 23                           | 1410                            | 0.069                                   | 0.28          |
|                                | 390                               | 12.5 $\times$ 20                         | 1570                            | 0.060                                   | 0.19          |
|                                | 470                               | 12.5 $\times$ 25                         | 1990                            | 0.043                                   | 0.14          |
|                                | 560                               | 12.5 $\times$ 30                         | 2410                            | 0.035                                   | 0.13          |
|                                | 560                               | 16 $\times$ 20                           | 2100                            | 0.043                                   | 0.14          |
|                                | 680                               | 12.5 $\times$ 35                         | 2620                            | 0.033                                   | 0.11          |
|                                | 820                               | 12.5 $\times$ 40                         | 2940                            | 0.027                                   | 0.09          |
|                                | 820                               | 16 $\times$ 25                           | 2730                            | 0.032                                   | 0.096         |
|                                | 820                               | 18 $\times$ 20                           | 2500                            | 0.038                                   | 0.100         |
|                                | 1200                              | 16 $\times$ 31.5                         | 2990                            | 0.024                                   | 0.068         |
|                                | 1200                              | 18 $\times$ 25                           | 2800                            | 0.031                                   | 0.084         |
|                                | 1500                              | 16 $\times$ 35.5                         | 3040                            | 0.021                                   | 0.057         |
|                                | 1500                              | 18 $\times$ 31.5                         | 3300                            | 0.025                                   | 0.068         |
|                                | 1800                              | 16 $\times$ 40                           | 3570                            | 0.019                                   | 0.057         |
|                                | 1800                              | 18 $\times$ 35.5                         | 3570                            | 0.020                                   | 0.054         |
|                                | 2200                              | 18 $\times$ 40                           | 3670                            | 0.018                                   | 0.049         |
| 80                             | 12                                | 5 $\times$ 11                            | 163                             | 1.4                                     | 5.6           |
|                                | 33                                | 6.3 $\times$ 11                          | 267                             | 0.57                                    | 2.3           |
|                                | 56                                | 8 $\times$ 11.5                          | 462                             | 0.36                                    | 1.4           |
|                                | 68                                | 8 $\times$ 16                            | 585                             | 0.25                                    | 1.0           |
|                                | 82                                | 10 $\times$ 12.5                         | 624                             | 0.23                                    | 0.96          |
|                                | 100                               | 8 $\times$ 20                            | 735                             | 0.19                                    | 0.76          |
|                                | 120                               | 10 $\times$ 16                           | 780                             | 0.17                                    | 0.72          |
|                                | 180                               | 10 $\times$ 20                           | 1040                            | 0.12                                    | 0.52          |
|                                | 180                               | 12.5 $\times$ 16                         | 975                             | 0.13                                    | 0.43          |
|                                | 220                               | 10 $\times$ 23                           | 1170                            | 0.11                                    | 0.47          |
|                                | 270                               | 12.5 $\times$ 20                         | 1430                            | 0.085                                   | 0.31          |
|                                | 330                               | 12.5 $\times$ 25                         | 1620                            | 0.060                                   | 0.23          |
|                                | 390                               | 12.5 $\times$ 30                         | 1950                            | 0.051                                   | 0.21          |
|                                | 390                               | 16 $\times$ 20                           | 1750                            | 0.058                                   | 0.21          |
|                                | 470                               | 12.5 $\times$ 35                         | 2140                            | 0.043                                   | 0.17          |
|                                | 560                               | 12.5 $\times$ 40                         | 2340                            | 0.036                                   | 0.15          |
|                                | 560                               | 16 $\times$ 25                           | 2210                            | 0.044                                   | 0.16          |
|                                | 560                               | 18 $\times$ 20                           | 1950                            | 0.054                                   | 0.18          |
|                                | 680                               | 16 $\times$ 31.5                         | 2400                            | 0.033                                   | 0.12          |
|                                | 820                               | 16 $\times$ 35.5                         | 2600                            | 0.029                                   | 0.10          |
|                                | 820                               | 18 $\times$ 25                           | 2270                            | 0.038                                   | 0.13          |
|                                | 1000                              | 16 $\times$ 40                           | 2860                            | 0.027                                   | 0.09          |
|                                | 1000                              | 18 $\times$ 31.5                         | 2470                            | 0.031                                   | 0.11          |
|                                | 1200                              | 18 $\times$ 35.5                         | 2860                            | 0.027                                   | 0.084         |
|                                | 1500                              | 18 $\times$ 40                           | 3510                            | 0.026                                   | 0.076         |

| 定格電圧<br>Rated Voltage<br>(Vdc) | 静電容量<br>Capacitance<br>( $\mu$ F) | 外形寸法<br>Size<br>$\phi$ D $\times$ L (mm) | 定格リプル電流<br>Rated Ripple Current | インピーダンス<br>( $\Omega$ MAX)<br>Impedance |               |
|--------------------------------|-----------------------------------|------------------------------------------|---------------------------------|-----------------------------------------|---------------|
|                                |                                   |                                          |                                 | 20°C, 100kHz                            | -10°C, 100kHz |
| 100                            | 8.2                               | 5 $\times$ 11                            | 163                             | 1.4                                     | 5.6           |
|                                | 18                                | 6.3 $\times$ 11                          | 267                             | 0.57                                    | 2.3           |
|                                | 33                                | 8 $\times$ 11.5                          | 462                             | 0.36                                    | 1.4           |
|                                | 47                                | 8 $\times$ 16                            | 585                             | 0.25                                    | 1.0           |
|                                | 56                                | 10 $\times$ 12.5                         | 624                             | 0.23                                    | 0.96          |
|                                | 68                                | 8 $\times$ 20                            | 735                             | 0.19                                    | 0.76          |
|                                | 82                                | 10 $\times$ 16                           | 780                             | 0.17                                    | 0.72          |
|                                | 100                               | 10 $\times$ 20                           | 1040                            | 0.12                                    | 0.52          |
|                                | 100                               | 12.5 $\times$ 16                         | 975                             | 0.13                                    | 0.43          |
|                                | 120                               | 10 $\times$ 23                           | 1170                            | 0.11                                    | 0.47          |
|                                | 150                               | 12.5 $\times$ 20                         | 1430                            | 0.085                                   | 0.31          |
|                                | 220                               | 12.5 $\times$ 25                         | 1620                            | 0.060                                   | 0.23          |
|                                | 270                               | 12.5 $\times$ 30                         | 1950                            | 0.051                                   | 0.21          |
|                                | 270                               | 16 $\times$ 20                           | 1750                            | 0.058                                   | 0.21          |
|                                | 330                               | 12.5 $\times$ 35                         | 2140                            | 0.043                                   | 0.17          |
|                                | 390                               | 12.5 $\times$ 40                         | 2340                            | 0.036                                   | 0.15          |
|                                | 390                               | 16 $\times$ 25                           | 2210                            | 0.044                                   | 0.16          |
|                                | 390                               | 18 $\times$ 20                           | 1950                            | 0.054                                   | 0.18          |
|                                | 470                               | 16 $\times$ 31.5                         | 2400                            | 0.033                                   | 0.12          |
|                                | 470                               | 18 $\times$ 25                           | 2270                            | 0.038                                   | 0.13          |
|                                | 560                               | 16 $\times$ 35.5                         | 2600                            | 0.029                                   | 0.10          |
|                                | 560                               | 18 $\times$ 31.5                         | 2470                            | 0.031                                   | 0.11          |
|                                | 680                               | 16 $\times$ 40                           | 2860                            | 0.027                                   | 0.09          |
|                                | 680                               | 18 $\times$ 35.5                         | 2860                            | 0.027                                   | 0.084         |
|                                | 820                               | 18 $\times$ 40                           | 3510                            | 0.026                                   | 0.076         |