

### NW7 シリーズ

#### SERIES

両極性高さ7mm品

Bi-polar, 7mm Height

RoHS  
compliance

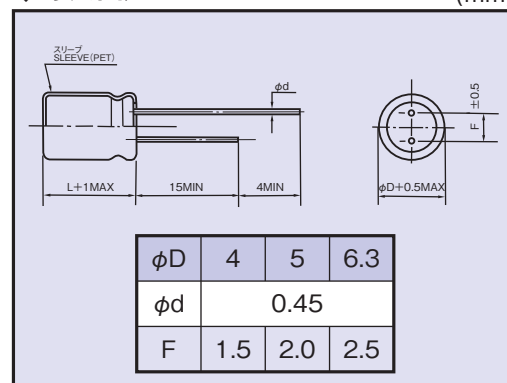


### ◆規格表 / SPECIFICATIONS

| 項 目 Items                                                               | 特 性 Characteristics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                               |                                                 |                              |                                                          |                         |                                             |    |                |      |      |      |      |      |      |                |    |   |   |   |   |   |
|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------|------------------------------|----------------------------------------------------------|-------------------------|---------------------------------------------|----|----------------|------|------|------|------|------|------|----------------|----|---|---|---|---|---|
| カテゴリ温度範囲<br>Category Temperature Range                                  | -40~+85℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                               |                                                 |                              |                                                          |                         |                                             |    |                |      |      |      |      |      |      |                |    |   |   |   |   |   |
| 定格電圧範囲<br>Rated Voltage Range                                           | 6.3~50Vdc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                               |                                                 |                              |                                                          |                         |                                             |    |                |      |      |      |      |      |      |                |    |   |   |   |   |   |
| 静電容量許容差<br>Capacitance Tolerance                                        | ±20% (20℃, 120Hz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                               |                                                 |                              |                                                          |                         |                                             |    |                |      |      |      |      |      |      |                |    |   |   |   |   |   |
| 漏れ電流<br>Leakage Current(MAX)                                            | I=0.05CV又は10μAのいずれか大なる値以下 (定格電圧印加5分後)<br>I=0.05CV or 10μA whichever is greater. (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<br>(tanδ)<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></tr><tr><td>tanδ</td><td>0.26</td><td>0.22</td><td>0.18</td><td>0.17</td><td>0.15</td><td>0.14</td></tr></table> (20℃, 120Hz)                                                                                                                                                                                                                                                                                                                                   | 定格電圧(Vdc)<br>Rated Voltage    | 6.3                                             | 10                           | 16                                                       | 25                      | 35                                          | 50 | tanδ           | 0.26 | 0.22 | 0.18 | 0.17 | 0.15 | 0.14 |                |    |   |   |   |   |   |
| 定格電圧(Vdc)<br>Rated Voltage                                              | 6.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 10                            | 16                                              | 25                           | 35                                                       | 50                      |                                             |    |                |      |      |      |      |      |      |                |    |   |   |   |   |   |
| tanδ                                                                    | 0.26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.22                          | 0.18                                            | 0.17                         | 0.15                                                     | 0.14                    |                                             |    |                |      |      |      |      |      |      |                |    |   |   |   |   |   |
| 耐久性<br>Endurance                                                        | 85℃中で500時間毎に極性を反転させ1000時間定格電圧(リップル重量)印加後、下記項目を満足すること。<br>After applying rated voltage with rated ripple current for 1000hrs at 85℃, (The polarity shall be reversed every 500hrs.), the capacitors shall meet the following requirements. <table><tr><td>静電容量変化率<br/>Capacitance Change</td><td>初期値の±25%以内<br/>Within ±25% of the initial value.</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></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></tr></table> | 静電容量変化率<br>Capacitance Change | 初期値の±25%以内<br>Within ±25% 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±25%以内<br>Within ±25% 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>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><tr><td>Z(-25℃)/Z(20℃)</td><td>4</td><td>3</td><td>3</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Z(-40℃)/Z(20℃)</td><td>10</td><td>8</td><td>6</td><td>4</td><td>4</td><td>4</td></tr></table> (120Hz)                                                                                                                                                                                                                                                   | 定格電圧(Vdc)<br>Rated Voltage    | 6.3                                             | 10                           | 16                                                       | 25                      | 35                                          | 50 | Z(-25℃)/Z(20℃) | 4    | 3    | 3    | 2    | 2    | 2    | Z(-40℃)/Z(20℃) | 10 | 8 | 6 | 4 | 4 | 4 |
| 定格電圧(Vdc)<br>Rated Voltage                                              | 6.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 10                            | 16                                              | 25                           | 35                                                       | 50                      |                                             |    |                |      |      |      |      |      |      |                |    |   |   |   |   |   |
| Z(-25℃)/Z(20℃)                                                          | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3                             | 3                                               | 2                            | 2                                                        | 2                       |                                             |    |                |      |      |      |      |      |      |                |    |   |   |   |   |   |
| Z(-40℃)/Z(20℃)                                                          | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 8                             | 6                                               | 4                            | 4                                                        | 4                       |                                             |    |                |      |      |      |      |      |      |                |    |   |   |   |   |   |

### ◆寸法図 / DIMENSIONS

(mm)



### ◆リプル電流補正係数 /

#### MULTIPLIER FOR RIPPLE CURRENT

周波数係数 Frequency coefficient

| 周波数 (Hz)<br>Frequency |           | 60(50) | 120  | 500  | 1k   | 10k≤ |
|-----------------------|-----------|--------|------|------|------|------|
| 係数<br>Coefficient     | 0.33~1μF  | 0.50   | 1.00 | 1.20 | 1.30 | 1.50 |
|                       | 2.2~4.7μF | 0.65   | 1.00 | 1.20 | 1.30 | 1.50 |
|                       | 10~47μF   | 0.80   | 1.00 | 1.20 | 1.30 | 1.50 |

### ◆副記号 / OPTION

| 副記号 Code           |
|--------------------|
| PETスリーブ PET Sleeve |
| EFC                |

### ◆標準品一覧表 / STANDARD SIZE

Size φD×L(mm), Rated Ripple Current (mA r.m.s./85°C, 120Hz)

| Vdc | Cap (μF) | Size (φD×L) | Rated Ripple Current |
|-----|----------|-------------|----------------------|
| 6.3 | 22       | 5×7         | 32                   |
|     | 33       | 5×7         | 40                   |
|     | 47       | 6.3×7       | 56                   |
| 10  | 10       | 4×7         | 23                   |
|     | 22       | 5×7         | 35                   |
|     | 33       | 6.3×7       | 45                   |
|     | 47       | 6.3×7       | 65                   |

| Vdc | Cap (μF) | Size (φD×L) | Rated Ripple Current |
|-----|----------|-------------|----------------------|
| 16  | 4.7      | 4×7         | 18                   |
|     | 10       | 4×7         | 25                   |
|     | 22       | 6.3×7       | 45                   |
|     | 33       | 6.3×7       | 60                   |
|     | 47       | 6.3×7       | 65                   |
| 25  | 3.3      | 4×7         | 15                   |
|     | 4.7      | 4×7         | 18                   |
|     | 10       | 6.3×7       | 35                   |
|     | 22       | 6.3×7       | 50                   |

| Vdc | Cap<br>(μF) | Size<br>(φDxL) | Rated Ripple<br>Current |
|-----|-------------|----------------|-------------------------|
| 35  | 2.2         | 4×7            | 13                      |
|     | 3.3         | 5×7            | 19                      |
|     | 4.7         | 5×7            | 22                      |
|     | 10          | 6.3×7          | 37                      |
| 50  | 0.33        | 4×7            | 3                       |
|     | 0.47        | 4×7            | 5                       |
|     | 1           | 4×7            | 10                      |
|     | 2.2         | 5×7            | 15                      |
|     | 3.3         | 5×7            | 19                      |
|     | 4.7         | 6.3×7          | 26                      |

### ◆呼称方法 / PART NUMBER

|                       |                 |                     |                                  |               |                         |                     |
|-----------------------|-----------------|---------------------|----------------------------------|---------------|-------------------------|---------------------|
| □□□                   | NW7             | □□□□□               | M                                | □□□           | □□                      | D×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 |