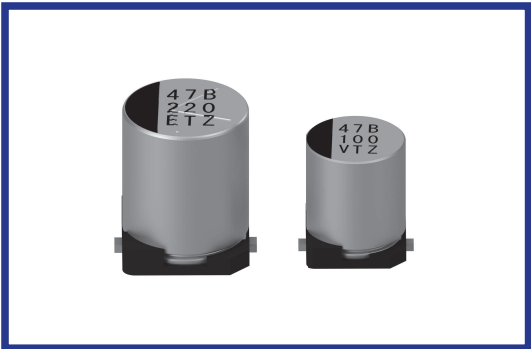


**TZV series**

105°C 2000時間 低インピーダンス品  
Load life : 105°C 2000 hours Low Impedance



AEC-Q200



◆規格表 / SPECIFICATIONS

| 項目 Item  | 特性 Characteristics  |                               |   |                              |  |                         |   |    |               |                  |      |      |      |      |      |      |  |                  |   |   |   |   |   |   |  |                  |   |   |   |   |   |   |  |
|--|---|-------------------------------|---|------------------------------|--|-------------------------|---|----|---------------|------------------|------|------|------|------|------|------|--|------------------|---|---|---|---|---|---|--|------------------|---|---|---|---|---|---|--|
| カテゴリ温度範囲<br>Category Temperature Range                                   | -55~+105°C  |                               |   |                              |  |                         |   |    |               |                  |      |      |      |      |      |      |  |                  |   |   |   |   |   |   |  |                  |   |   |   |   |   |   |  |
| 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°C, 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 border="1"> <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>(20°C, 120Hz)</td> </tr> <tr> <td>tan δ</td> <td>0.26</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td></td> </tr> </table>  | 定格電圧 (Vdc)<br>Rated Voltage   | 6.3   | 10                           | 16   | 25                      | 35  | 50 | (20°C, 120Hz) | tan δ            | 0.26 | 0.19 | 0.16 | 0.14 | 0.12 | 0.10 |  |                  |   |   |   |   |   |   |  |                  |   |   |   |   |   |   |  |
| 定格電圧 (Vdc)<br>Rated Voltage  | 6.3   | 10                            | 16  | 25                           | 35   | 50                      | (20°C, 120Hz)                               |    |               |                  |      |      |      |      |      |      |  |                  |   |   |   |   |   |   |  |                  |   |   |   |   |   |   |  |
| tan δ  | 0.26  | 0.19                          | 0.16  | 0.14                         | 0.12   | 0.10                    |   |    |               |                  |      |      |      |      |      |      |  |                  |   |   |   |   |   |   |  |                  |   |   |   |   |   |   |  |
| 耐久性<br>Endurance   | 105°C中で2000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 2000 hours at 105°C, the capacitors shall meet the following requirements. <table border="1"> <tr> <td>静電容量変化率<br/>Capacitance Change</td> <td>初期値の ±30% 以内<br/>Within ±30% 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 ±30% 以内<br>Within ±30% 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 ±30% 以内<br>Within ±30% 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 border="1"> <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>(120Hz)</td> </tr> <tr> <td>Z(-25°C)/Z(20°C)</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°C)/Z(20°C)</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td></td> </tr> <tr> <td>Z(-55°C)/Z(20°C)</td> <td>4</td> <td>4</td> <td>4</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 | (120Hz)       | Z(-25°C)/Z(20°C) | 2    | 2    | 2    | 2    | 2    | 2    |  | Z(-40°C)/Z(20°C) | 3 | 3 | 3 | 3 | 3 | 3 |  | Z(-55°C)/Z(20°C) | 4 | 4 | 4 | 3 | 3 | 3 |  |
| 定格電圧 (Vdc)<br>Rated Voltage  | 6.3   | 10                            | 16  | 25                           | 35   | 50                      | (120Hz)                                     |    |               |                  |      |      |      |      |      |      |  |                  |   |   |   |   |   |   |  |                  |   |   |   |   |   |   |  |
| Z(-25°C)/Z(20°C)   | 2   | 2                             | 2   | 2                            | 2  | 2                       |   |    |               |                  |      |      |      |      |      |      |  |                  |   |   |   |   |   |   |  |                  |   |   |   |   |   |   |  |
| Z(-40°C)/Z(20°C)   | 3   | 3                             | 3   | 3                            | 3  | 3                       |   |    |               |                  |      |      |      |      |      |      |  |                  |   |   |   |   |   |   |  |                  |   |   |   |   |   |   |  |
| Z(-55°C)/Z(20°C)   | 4   | 4                             | 4   | 3                            | 3  | 3                       |   |    |               |                  |      |      |      |      |      |      |  |                  |   |   |   |   |   |   |  |                  |   |   |   |   |   |   |  |

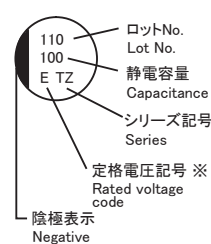
◆呼称方法 / PART NUMBER



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

| 周波数 (Hz)<br>Frequency | 120  | 1k   | 10k  | 100k ≤ |
|-----------------------|------|------|------|--------|
| 4.7 μF                | 0.30 | 0.60 | 0.80 | 1.00   |
| 10~47 μF              | 0.32 | 0.75 | 0.90 | 1.00   |
| 100 μF                | 0.50 | 0.80 | 0.95 | 1.00   |
| 220~1000 μF           | 0.60 | 0.85 | 0.95 | 1.00   |

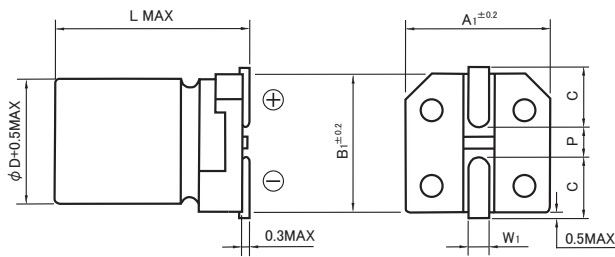
◆表示 / MARKING



※電圧記号 Voltage code

|                             |     |    |    |    |    |    |
|-----------------------------|-----|----|----|----|----|----|
| 定格電圧 (Vdc)<br>Rated Voltage | 6.3 | 10 | 16 | 25 | 35 | 50 |
| 電圧記号<br>Voltage code        | j   | A  | C  | E  | V  | H  |

◆寸法図／DIMENSIONS



| φD  | L    | A1   | B1   | C   | W1      | P   |
|-----|------|------|------|-----|---------|-----|
| 4   | 6.1  | 4.3  | 4.3  | 1.8 | 0.5~0.8 | 1.0 |
| 5   | 6.1  | 5.3  | 5.3  | 2.2 | 0.5~0.8 | 1.3 |
| 6.3 | 6.1  | 6.6  | 6.6  | 2.7 | 0.5~0.8 | 1.8 |
| 6.3 | 8    | 6.6  | 6.6  | 2.7 | 0.5~0.8 | 1.8 |
| 8   | 10.5 | 8.3  | 8.3  | 2.9 | 0.8~1.1 | 3.1 |
| 10  | 10.5 | 10.3 | 10.3 | 3.2 | 0.8~1.1 | 4.5 |

◆標準品一覧表／STANDARD SIZE

Size φD×L(mm), Rated Ripple Current (mA r.m.s./105°C, 100kHz), Impedance(Ω MAX/20°C, 100kHz)

| Vdc  | Cap (μF) | Size (φDXL) | Ripple | Impedance |
|------|----------|-------------|--------|-----------|
| 6.3  | 22       | 4×6.1       | 90     | 1.35      |
|      | 47       | 4×6.1       | 90     | 1.35      |
|      |          | 5×6.1       | 170    | 0.70      |
|      | 100      | 5×6.1       | 170    | 0.70      |
|      |          | 6.3×6.1     | 250    | 0.36      |
|      | 220      | 6.3×6.1     | 250    | 0.36      |
|      |          | 6.3×8       | 300    | 0.34      |
|      | 330      | 6.3×8       | 300    | 0.34      |
| 1000 | 8×10.5   | 600         | 0.16   |           |
| 10   | 33       | 4×6.1       | 90     | 1.35      |
|      | 220      | 6.3×8       | 300    | 0.34      |
|      | 470      | 8×10.5      | 600    | 0.16      |
|      | 680      | 8×10.5      | 600    | 0.16      |
|      | 1000     | 10×10.5     | 850    | 0.08      |
| 16   | 10       | 4×6.1       | 90     | 1.35      |
|      | 22       | 4×6.1       | 90     | 1.35      |
|      |          | 5×6.1       | 170    | 0.70      |
|      | 33       | 5×6.1       | 170    | 0.70      |
|      | 47       | 5×6.1       | 170    | 0.70      |
|      |          | 6.3×6.1     | 250    | 0.36      |
|      | 100      | 6.3×6.1     | 250    | 0.36      |
|      |          | 6.3×8       | 300    | 0.34      |
|      | 220      | 6.3×8       | 300    | 0.34      |
|      | 330      | 8×10.5      | 600    | 0.16      |
| 470  | 8×10.5   | 600         | 0.16   |           |
| 680  | 10×10.5  | 850         | 0.08   |           |

| Vdc | Cap (μF) | Size (φDXL) | Ripple | Impedance |
|-----|----------|-------------|--------|-----------|
| 25  | 33       | 5×6.1       | 170    | 0.70      |
|     |          | 6.3×6.1     | 250    | 0.36      |
|     | 47       | 6.3×6.1     | 250    | 0.36      |
|     | 100      | 6.3×8       | 300    | 0.34      |
|     | 220      | 8×10.5      | 600    | 0.16      |
|     | 330      | 8×10.5      | 600    | 0.16      |
|     | 470      | 10×10.5     | 850    | 0.09      |
|     | 35       | 4.7         | 4×6.1  | 90        |
| 10  |          | 4×6.1       | 90     | 1.45      |
|     |          | 5×6.1       | 170    | 0.70      |
| 22  |          | 5×6.1       | 170    | 0.70      |
|     |          | 6.3×6.1     | 250    | 0.36      |
| 33  |          | 6.3×6.1     | 250    | 0.36      |
| 47  |          | 6.3×6.1     | 250    | 0.36      |
|     |          | 6.3×8       | 300    | 0.34      |
| 100 |          | 6.3×8       | 300    | 0.34      |
|     |          | 8×10.5      | 600    | 0.16      |
| 220 | 8×10.5   | 600         | 0.16   |           |
| 330 | 10×10.5  | 850         | 0.09   |           |
| 50  | 4.7      | 4×6.1       | 60     | 2.90      |
|     | 10       | 5×6.1       | 85     | 1.52      |
|     |          | 6.3×6.1     | 165    | 0.88      |
|     | 22       | 6.3×6.1     | 165    | 0.88      |
|     | 33       | 6.3×8       | 195    | 0.68      |
|     | 47       | 6.3×8       | 195    | 0.68      |
|     | 100      | 8×10.5      | 350    | 0.34      |
|     | 220      | 10×10.5     | 670    | 0.18      |

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