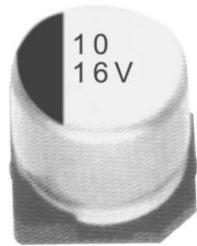


# SURFACE MOUNT LOW PROFILE 4.5mm TYPE 105°C 1000HR



ZTS Series 表面粘著型105°C 4.5mm height 超低型高度4.5mm品

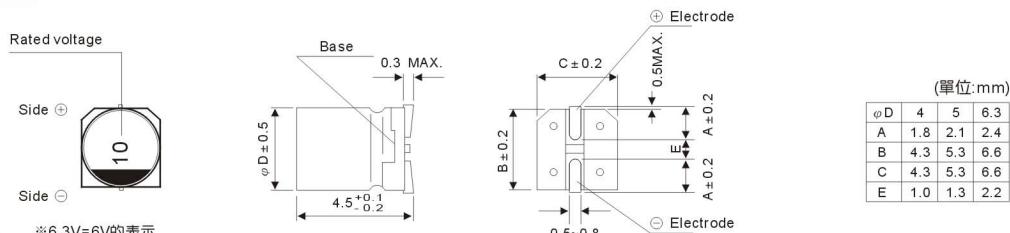


- 105°C stand, case diameter 4~6.3mm
- Reflex soldering is available
- Available for high density mounting

## SPECIFICATIONS

| No                    | Item   | Performance Characteristics   |      |      |      |      |  |                       |                     |     |    |    |    |    |          |                 |      |      |      |      |      |   |                 |    |    |   |   |   |   |
|-----------------------|--|---|------|------|------|------|--|-----------------------|---------------------|-----|----|----|----|----|----------|-----------------|------|------|------|------|------|---|-----------------|----|----|---|---|---|---|
| 1                     | 使用溫度範圍 Operating Temperature Range           | -40 to +105°C   |      |      |      |      |  |                       |                     |     |    |    |    |    |          |                 |      |      |      |      |      |   |                 |    |    |   |   |   |   |
| 2                     | 定格電壓範圍 Rated voltage Range                   | 6.3 to 50VDC  |      |      |      |      |  |                       |                     |     |    |    |    |    |          |                 |      |      |      |      |      |   |                 |    |    |   |   |   |   |
| 3                     | 靜電容量許差 Capacitance Tolerance                 | ±20% at 120Hz, 20°C   |      |      |      |      |  |                       |                     |     |    |    |    |    |          |                 |      |      |      |      |      |   |                 |    |    |   |   |   |   |
| 4                     | 靜電容量範圍 Capacitance Range                     | 0.1 μF to 100 μF  |      |      |      |      |  |                       |                     |     |    |    |    |    |          |                 |      |      |      |      |      |   |                 |    |    |   |   |   |   |
| 5                     | 漏電電流 Leakage Current(+20°C, max.)            | I ≤ 0.01 CV or 3(μA) After 2minutes, whichever is greater measured With rated working voltage applied   |      |      |      |      |  |                       |                     |     |    |    |    |    |          |                 |      |      |      |      |      |   |                 |    |    |   |   |   |   |
| 6                     | 損失角 Dissipation Factor(tan δ)                | <table border="1"> <tr> <td>Working Voltage (VDC)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>D.F. (%)</td> <td>Ø4~6.3</td> <td>0.38</td> <td>0.32</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> </tr> </table> (+20°C, at 120Hz)   |      |      |      |      |  | Working Voltage (VDC) | 6.3                 | 10  | 16 | 25 | 35 | 50 | D.F. (%) | Ø4~6.3          | 0.38 | 0.32 | 0.20 | 0.16 | 0.14 |   |                 |    |    |   |   |   |   |
| Working Voltage (VDC) | 6.3  | 10  | 16   | 25   | 35   | 50   |  |                       |                     |     |    |    |    |    |          |                 |      |      |      |      |      |   |                 |    |    |   |   |   |   |
| D.F. (%)              | Ø4~6.3                                       | 0.38  | 0.32 | 0.20 | 0.16 | 0.14 |  |                       |                     |     |    |    |    |    |          |                 |      |      |      |      |      |   |                 |    |    |   |   |   |   |
| 7                     | 溫度特性 Low Temperature Characteristics (120Hz) | <table border="1"> <tr> <td>Rated voltage (VDC)</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°C / Z+20°C</td> <td>6</td> <td>5</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> <tr> <td>Z-40°C / Z+20°C</td> <td>10</td> <td>10</td> <td>6</td> <td>6</td> <td>4</td> <td>4</td> </tr> </table> Impedance ratio max. |      |      |      |      |  |                       | Rated voltage (VDC) | 6.3 | 10 | 16 | 25 | 35 | 50       | Z-25°C / Z+20°C | 6    | 5    | 3    | 3    | 3    | 3 | Z-40°C / Z+20°C | 10 | 10 | 6 | 6 | 4 | 4 |
| Rated voltage (VDC)   | 6.3  | 10  | 16   | 25   | 35   | 50   |  |                       |                     |     |    |    |    |    |          |                 |      |      |      |      |      |   |                 |    |    |   |   |   |   |
| Z-25°C / Z+20°C       | 6  | 5   | 3    | 3    | 3    | 3    |  |                       |                     |     |    |    |    |    |          |                 |      |      |      |      |      |   |                 |    |    |   |   |   |   |
| Z-40°C / Z+20°C       | 10   | 10  | 6    | 6    | 4    | 4    |  |                       |                     |     |    |    |    |    |          |                 |      |      |      |      |      |   |                 |    |    |   |   |   |   |
| 8                     | 高溫負荷特性 Load Life                             | After 1000 hours, application of rated voltage at 105°C, capacitors meet the characteristics requirements listed as belows.   |      |      |      |      |  |                       |                     |     |    |    |    |    |          |                 |      |      |      |      |      |   |                 |    |    |   |   |   |   |
| 9                     | 高溫無負荷特性 Shelf Life                           | Test conditions Duration time :1000Hrs Ambient temperature :+105°C Applied voltage:None After test requirements at +20°C: Same limits as Load life .Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.   |      |      |      |      |  |                       |                     |     |    |    |    |    |          |                 |      |      |      |      |      |   |                 |    |    |   |   |   |   |

## 外型圖 OUTLINE DRAWING



## 尺寸 DIMENSIONS

| (μF)   | V       | 6.3    | 10     | 16                    | 25             | 35     | 50               |
|--------|---------|--------|--------|-----------------------|----------------|--------|------------------|
| 額定靜電容量 | 品號編碼    | 0J     | 1A     | 1C                    | 1E             | 1V     | 1H               |
| 0.1    | 0R1     |        |        |                       |                |        | 4 0.9            |
| 0.22   | R22     |        |        |                       |                |        | 4 2.2            |
| 0.33   | R33     |        |        |                       |                |        | 4 2.8            |
| 0.47   | R47     |        |        |                       |                |        | 4 3.3            |
| 1      | 010     |        |        |                       |                |        | 4 5.4            |
| 2.2    | 2R2     |        |        |                       |                |        | 4 9.6            |
| 3.3    | 3R3     |        |        |                       |                |        | 4 12             |
| 4.7    | 4R7     |        |        |                       | 4 11 4 13 5 16 |        |                  |
| 10     | 100     |        |        | 4 16 5 20 5 22 6.3 26 |                |        |                  |
| 22     | 220 4   | 19 5   | 24 5   | 26 6.3                | 33 35 42       | 6.3 42 |                  |
| 33     | 330 5   | 26 5   | 30 6.3 | 35 44                 |                |        |                  |
| 47     | 470 5   | 32 6.3 | 40 6.3 | 44 44                 |                |        |                  |
| 100    | 101 6.3 | 52     |        |                       |                |        | 鋁殼 ØD (mm) mArms |

105°C 120Hz 時的額定紋波電流 (mA rms)

## Multiplier for Ripple Current

| Frequency  | Frequency(Hz) | 60(50) | 120 | 500  | 1K   | 10K≤ |
|------------|---------------|--------|-----|------|------|------|
| Multiplier | 0.1~100 μF    | 0.8    | 1.0 | 1.20 | 1.30 | 1.50 |

| Temperature | Temperature°C | 85  | 70  | 50K≤ |
|-------------|---------------|-----|-----|------|
| Multiplier  |               | 1.0 | 1.6 | 2.0  |