

TZV SERIES
105°C Low Impedance, Lead Free Reflow Soldering.
◆FEATURES

- Load Life : 105°C 2000 hours. •RoHS compliance.
- Lead free reflow soldering is available.
- Available for high density mounting.
- Prescribe Impedance value at 100 kHz.

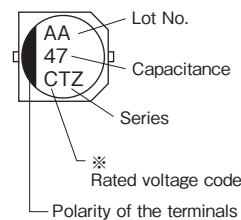

◆SPECIFICATIONS

| Items | Characteristics | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--------------------|-----------------------------------|--------------------|--|-----------------|------------------------------------|----|------------------|------|------|------|------|------|------|------------------|---|---|---|---|---|---|------------------|---|---|---|---|---|---|
| Category Temperature Range | -55~+105°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rated Voltage Range | 6.3~50V.DC | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capacitance Tolerance | ±20% (20°C, 120Hz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leakage Current(MAX) | I=0.01CV or 3μA whichever is greater.(After 2 minutes application of rated voltage) I=Leakage Current(μA) C=Capacitance(μF) V=Rated Voltage(V) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (tanδ) Dissipation Factor(MAX) | <table border="1" style="display: inline-table; margin-right: 20px;"> <tr> <td>Rated Voltage (V)</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>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> </tr> </table> (20°C, 120Hz) | Rated Voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | tanδ | 0.26 | 0.19 | 0.16 | 0.14 | 0.12 | 0.10 | | | | | | | | | | | | | | |
| Rated Voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | | | | | | | | | | | | | | | | | | | | | | | |
| tanδ | 0.26 | 0.19 | 0.16 | 0.14 | 0.12 | 0.10 | | | | | | | | | | | | | | | | | | | | | | | |
| Endurance | After applying rated voltage with rated ripple current for 2000 hours at 105°C, the capacitors shall meet the following requirements. <table border="1" style="margin-top: 10px;"> <tr> <td>Capacitance Change</td> <td>Within ±30% of the initial value.</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> </tr> </table> | Capacitance Change | Within ±30% of the initial value. | Dissipation Factor | Not more than 200% of the specified value. | Leakage Current | Not more than the specified value. | | | | | | | | | | | | | | | | | | | | | | |
| Capacitance Change | Within ±30% of the initial value. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dissipation Factor | Not more than 200% of the specified value. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leakage Current | Not more than the specified value. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low Temperature Stability Impedance Ratio(MAX) | <table border="1" style="display: inline-table; margin-right: 20px;"> <tr> <td>Rated Voltage (V)</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>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</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> </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> </tr> </table> (120Hz) | Rated Voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | 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 |
| Rated Voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | |

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency Coefficient

| Frequency (Hz) | | 120 | 1k | 10k | 100k≤ |
|----------------|------------|------|------|------|-------|
| Coefficient | 4.7μF | 0.42 | 0.60 | 0.80 | 1.00 |
| | 10~33μF | 0.45 | 0.75 | 0.90 | 1.00 |
| | 47~100μF | 0.50 | 0.80 | 0.95 | 1.00 |
| | 220~1000μF | 0.60 | 0.85 | 0.95 | 1.00 |

◆MARKING


※ Voltage Code

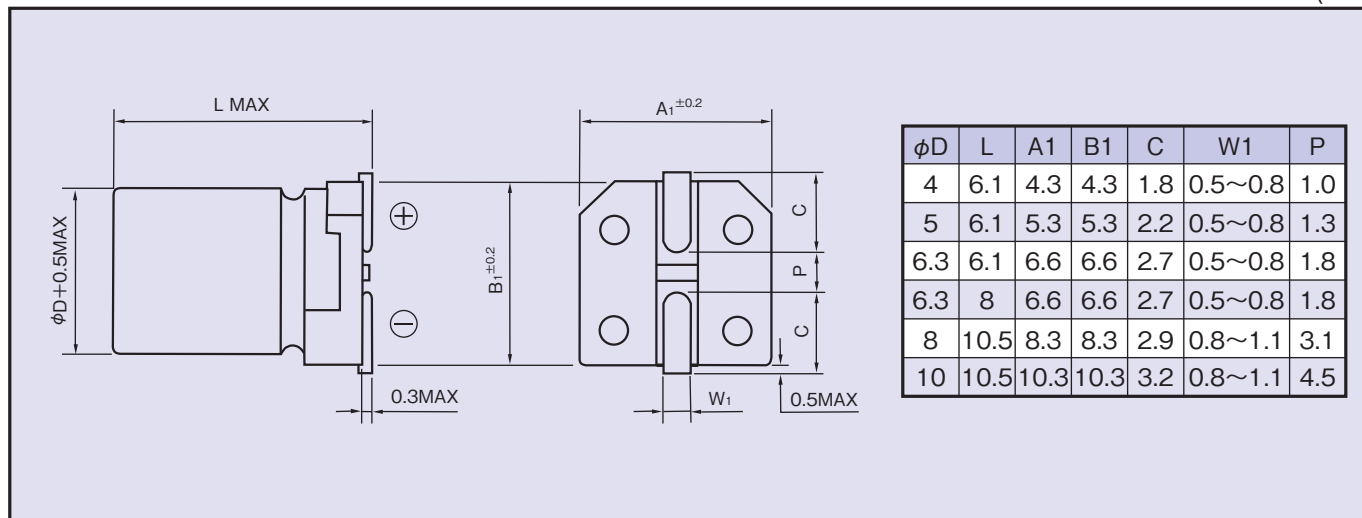
| | | | | | | |
|--------------------|-----|----|----|----|----|----|
| Rated Voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 50 |
| Rated Voltage code | j | A | C | E | V | H |

◆PART NUMBER

| | | | | | |
|---------------|--------|-------------|-----------------------|--------|-----------|
| □□□ | TZV | □□□□□ | M | □□□ | D×L |
| Rated Voltage | Series | Capacitance | Capacitance Tolerance | Option | Case Size |

◆ **DIMENSIONS**

(mm)



◆ **STANDARD SIZE**

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

| Cap(μF) \ WV (V.DC) | 6.3 (0J) | | | 10 (1A) | | | 16 (1C) | | |
|---------------------|----------|--------|-----------|---------|--------|-----------|---------|--------|-----------|
| | Size | Ripple | Impedance | Size | Ripple | Impedance | Size | Ripple | Impedance |
| 10 | | | | | | | 4×6.1 | 90 | 1.35 |
| 22 | 4×6.1 | 90 | 1.35 | | | | 4×6.1 | 90 | 1.35 |
| | | | | | | | 5×6.1 | 170 | 0.70 |
| 33 | | | | 4×6.1 | 90 | 1.35 | 5×6.1 | 170 | 0.70 |
| 47 | 4×6.1 | 90 | 1.35 | | | | 5×6.1 | 170 | 0.70 |
| | 5×6.1 | 170 | 0.70 | | | | 6.3×6.1 | 250 | 0.36 |
| 100 | 5×6.1 | 170 | 0.70 | | | | 6.3×6.1 | 250 | 0.36 |
| | 6.3×6.1 | 250 | 0.36 | | | | 6.3×8 | 300 | 0.34 |
| 220 | 6.3×6.1 | 250 | 0.36 | 6.3×8 | 300 | 0.34 | 6.3×8 | 300 | 0.34 |
| | 6.3×8 | 300 | 0.34 | | | | | | |
| 330 | 6.3×8 | 300 | 0.34 | | | | 8×10.5 | 600 | 0.16 |
| 470 | | | | 8×10.5 | 600 | 0.16 | 8×10.5 | 600 | 0.16 |
| 680 | | | | 8×10.5 | 600 | 0.16 | 10×10.5 | 850 | 0.08 |
| 1000 | 8×10.5 | 600 | 0.16 | 10×10.5 | 850 | 0.08 | | | |

| Cap(μF) \ WV (V.DC) | 25 (1E) | | | 35 (1V) | | | 50 (1H) | | |
|---------------------|---------|--------|-----------|---------|--------|-----------|---------|--------|-----------|
| | Size | Ripple | Impedance | Size | Ripple | Impedance | Size | Ripple | Impedance |
| 4.7 | | | | 4×6.1 | 90 | 1.45 | 4×6.1 | 60 | 2.90 |
| 10 | | | | 4×6.1 | 90 | 1.45 | 5×6.1 | 85 | 1.52 |
| | | | | 5×6.1 | 170 | 0.70 | 6.3×6.1 | 165 | 0.88 |
| 22 | | | | 5×6.1 | 170 | 0.70 | 6.3×6.1 | 165 | 0.88 |
| | | | | 6.3×6.1 | 250 | 0.36 | | | |
| 33 | 5×6.1 | 170 | 0.70 | 6.3×6.1 | 250 | 0.36 | 6.3×8 | 195 | 0.68 |
| | 6.3×6.1 | 250 | 0.36 | | | | | | |
| 47 | 6.3×6.1 | 250 | 0.36 | 6.3×6.1 | 250 | 0.36 | 6.3×8 | 195 | 0.68 |
| | | | | 6.3×8 | 300 | 0.34 | | | |
| | | | | 6.3×8 | 300 | 0.34 | | | |
| 100 | 6.3×8 | 300 | 0.34 | 8×10.5 | 600 | 0.16 | 8×10.5 | 350 | 0.34 |
| | | | | 8×10.5 | 600 | 0.16 | | | |
| 220 | 8×10.5 | 600 | 0.16 | 8×10.5 | 600 | 0.16 | 10×10.5 | 670 | 0.18 |
| 330 | 8×10.5 | 600 | 0.16 | 10×10.5 | 850 | 0.09 | | | |
| 470 | 10×10.5 | 850 | 0.09 | | | | | | |

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