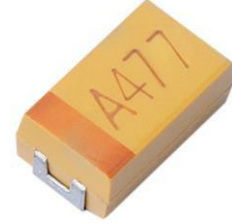
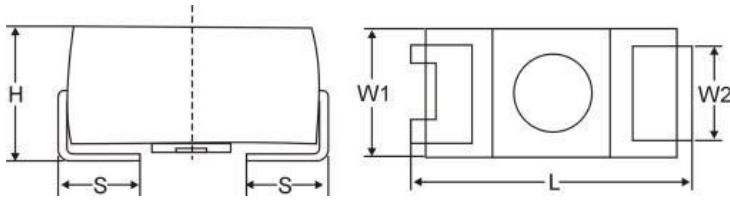


**FEATURES**

- Compatible with all popular "High Volume" automatic pick and equipment
- Molded case available in six case codes
- Optical character recognition qualified



**DRAWING (mm)**



| DIMENSIONS – MILLIMETERS (Unit: mm) |             |        |        |         |     |         |
|-------------------------------------|-------------|--------|--------|---------|-----|---------|
| Case Size                           | L ± 0.4     | W1±0.4 | H ±0.4 | S ± 0.3 | W2  |         |
| <b>P</b>                            | <b>2012</b> | 2.0    | 1.2    | 1.2     | 0.5 | 1.0±0.2 |
| <b>A</b>                            | <b>3216</b> | 3.2    | 1.6    | 1.6     | 0.8 | 1.2±0.2 |
| <b>B</b>                            | <b>3528</b> | 3.5    | 2.8    | 1.9     | 0.8 | 2.2±0.2 |
| <b>C</b>                            | <b>6032</b> | 6.0    | 3.2    | 2.5     | 1.3 | 2.2±0.2 |
| <b>D</b>                            | <b>7343</b> | 7.3    | 4.3    | 2.8     | 1.3 | 2.4±0.2 |
| <b>E</b>                            | <b>7343</b> | 7.3    | 4.3    | 4.1     | 1.3 | 2.4±0.5 |

**SPECIFICATIONS**

|                                     |   |
|-------------------------------------|---|
| <b>Operating Temperature Range:</b> | -55°C to +125°C (>85°C with rated voltage derating.)  |
| <b>Capacitance Range:</b>           | 0.1µF to 470µF  |
| <b>Rated Voltage:</b>               | D.C. 4V ~ 50V   |
| <b>Capacitance Tolerance:</b>       | ±20%, ±10%, ±5% (for special order)   |
| <b>DC Leakage Current:</b>          | $I_o \leq 0.01 \text{ CRVR}$ or 0.5µA (whichever is greater)  |
| <b>Load Life:</b>                   | 85 °C, After applying rated voltage for 2000 hours at 85 °C Capacitance change: within ±10% of the initial value<br>Dissipation factor: Not more than 150% of the specified value |

**TEMPERATURE CHARACTERISTICS**

| Capacitance (µF) | Capacitance Change (%) |       |        | Dissipation Factor Max. (%) |       |       |        | DCL Max. (µA)      |                    |
|------------------|------------------------|-------|--------|-----------------------------|-------|-------|--------|--------------------|--------------------|
|                  | -55°C                  | +85°C | +125°C | -55°C                       | +25°C | +85°C | +125°C | +85°C              | +125°C             |
| ≤1.0             | ±10                    | ±10   | ±12    | 6                           | 4     | 6     | 6      | +10 I <sub>o</sub> | +12 I <sub>o</sub> |
| 1.5 ~ 68         |                        |       |        | 10                          | 6     | 10    | 10     |                    |                    |
| 100 ~ 470        |                        |       |        | 14                          | 12    | 14    | 14     |                    |                    |

**LOAD VOLTAGE**

| Product model | Main materials of cathode | Load requirements after derating | Explain                                |
|---------------|---------------------------|----------------------------------|--|
| WTB           | MnO <sub>2</sub>          | ≤50%U <sub>R</sub>               | General application                    |
|               |                           | ≤30%U <sub>R</sub>               | Power circuit or low impedance circuit |

Note: U<sub>R</sub> is the rated voltage under the condition of temperature ≤ 85 °C, When the temperature is higher than 85 °C, temperature derating should be considered.

**TEMPERATURE DERATING**

| Temperature range | Derating calculation formula        | Explain        |  |
|-------------------|-------------------------------------|----------------|--|
| 85°C ~ 125°C      | $U_T = (U_R - U_C) * (T - 85) / 40$ | U <sub>R</sub> | It is the rated voltage under the condition of temperature ≤ 85 °C |
|                   |                                     | U <sub>C</sub> | It is the rated voltage at 125 °C                                  |
|                   |                                     | U <sub>T</sub> | It is the voltage to be reduced between 85 °C and 125 °C           |



| Rated Voltage, Nominal Capacitance and Case Sizes |                     |  |       |       |       |       |       |       |     |
|---|---------------------|--|-------|-------|-------|-------|-------|-------|-----|
| U <sub>R</sub>                                    | V <sub>≤+85°C</sub> | 4  | 6.3   | 10    | 16    | 20    | 25    | 35    | 50  |
| Rated Voltage Marking                             |                     | G  | J     | A     | C     | D     | E     | V     | T   |
| Voltage Derating (V <sub>c</sub> ) ≤+125°C        |                     | 2.7  | 4     | 6.3   | 10    | 15    | 17    | 23    | 33  |
| Surge Voltage ≤ +85°C (V <sub>s</sub> )           |                     | 5.2  | 8     | 13    | 20    | 26    | 32    | 46    | 65  |
| Surge Voltage ≤ +125°C (V <sub>s</sub> )          |                     | 3.4  | 5     | 8     | 13    | 16    | 20    | 28    | 40  |
| Capacitance (μF)                                  | Marking             | Case Size (standard / miniature / Super miniature) |       |       |       |       |       |       |     |
| 0.1   | 104                 |  |       |       |       |       |       | A     | A/B |
| 0.15  | 154                 |  |       |       |       |       |       | A     | A/B |
| 0.22  | 224                 |  |       |       |       |       |       | A     | A/B |
| 0.33  | 334                 |  |       |       |       |       | A     | A     | A/B |
| 0.47  | 474                 |  |       |       | P     | P     | A     | A/B   | A/C |
| 0.68  | 684                 |  |       | P     | A/P   | A/P   | A     | A/B   | A/C |
| 1.0   | 105                 | A  | A     | A/P   | A/P   | A     | A     | A/B   | C   |
| 1.5   | 155                 | A/P  | A     | A/P   | A     | A/B   | A/B   | A/B/C | D   |
| 2.2   | 225                 | A/P  | A     | A/P   | A/B   | A/B   | A/B   | B/C   | C/D |
| 3.3   | 335                 | A/P  | A     | A/P   | A/B   | A/B   | B/C   | C/D   | D   |
| 4.7   | 475                 | A/P  | A     | A/B/P | A/B   | A/B/C | B/C   | C/D   | D   |
| 6.8   | 685                 | A/P  | A     | A/B   | A/B   | B/C   | B/C   | C/D   | D   |
| 10  | 106                 | A/P  | A/B   | A/B   | A/B/C | B/C/D | B/C/D | C/D   |     |
| 15  | 156                 | A/B  | A     | A/B/C | B/C   | C     | C/D   | D/E   |     |
| 22  | 226                 | A/B  | A/B/C | A/B/C | B/C/D | C/D   | D     |       |     |
| 33  | 336                 | B/C  | A/B   | B/C/D | C/D   | C/D   | D/E   |       |     |
| 47  | 476                 | B/C  | B/C   | B/C/D | C/D   | D/E   | D/E   |       |     |
| 68  | 686                 | B/C  | B/C/D | C/D   | D     | D/E   |       |       |     |
| 100   | 107                 | B/C  | B/C   | C/D   | D/E   |       |       |       |     |
| 150   | 157                 | C/D/<br>E  | C/D   | D/E   | E     |       |       |       |     |
| 220   | 227                 | C/D/<br>E  | C/D   | D     |       |       |       |       |     |
| 330   | 337                 | E  | D     |       |       |       |       |       |     |



**PN Structure:**

10uF 25V +/-10% B case Tape/Reel RoHS

Body Mark: E100

| WTB    | 250      | K         | 100         | B        | T        | R        | 000          |
|--------|----------|-----------|-------------|----------|----------|----------|--------------|
| Series | Voltage  | Tolerance | Capacitance | Case     | Packing  | Pb       | ESR Standard |
|        | <u>1</u> | <u>2</u>  | <u>3</u>    | <u>4</u> | <u>5</u> | <u>6</u> | <u>7</u>     |

**1. Voltage & Mark**

|     |      |   |
|-----|------|---|
| 040 | 4V   | G |
| 060 | 6.3V | J |
| 100 | 10V  | A |
| 160 | 16V  | C |
| 200 | 20V  | D |
| 250 | 25V  | E |
| 350 | 35V  | V |
| 500 | 50V  | T |

**2. Tolerance**

|   |       |
|---|-------|
| J | ±5.0% |
| K | ±10%  |
| M | ±20%  |

**3. Capacitance**

|     |        |
|-----|--------|
| 0R1 | 0.1uF  |
| R22 | 0.22uF |
| 010 | 1uF    |
| 2R2 | 2.2uF  |
| 100 | 10uF   |
| 221 | 220uF  |

**4. Case**

|   |   |   |   |
|---|---|---|---|
| A | B | C | D |
|---|---|---|---|

**5. Packing**

|   |           |
|---|-----------|
| T | Tape/Reel |
|---|-----------|

**6. Pb**

|   |      |
|---|------|
| R | RoHS |
|---|------|



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