

The KEMET T322 AND T323 (CX01 & CX05) Series offers a complete line of extended range molded solid tantalum capacitors designed specifically for high speed automatic insertion applications. These capacitors offer an extremely high capacitance-to-volume ratio while still maintaining excellent performance characteristics.

Supplied in six axial lead tubular case sizes, these capacitors are ideally suited for use in printed wiring boards and all applications requiring a high degree of packaging density and can be supplied in bulk packaging or lead-taped on reels.

The T322/T323 Series dimensions and tight lead wire-to-body concentricity permit installation by the same automatic insertion equipment used for diodes and resistors. Available in working voltages of

2, 4, 6, 10, 15, 20, 25, 35, and 50 volts. Operating temperature range -55°C to +85°C at full rated voltage and with  $\frac{2}{3}$  85°C rated voltage at 125°C.

The gold color epoxy utilized permits laser marking with outstanding permanency and legibility.

T323 Series capacitors are qualified under MIL-PRF-49137/1 & 5 as Military Style CX01 & CX05.

Typical applications include decoupling, blocking, bypassing and filtering in commercial computers, data processing, communications, and other electronic equipment. The low ESR/impedance at high frequencies offered by this capacitor is especially suitable for decoupling required by high speed computers.

### PERFORMANCE CHARACTERISTICS

- **CAPACITANCE/VOLTAGE RANGE:**  
0.1-330µF, 2-50 Volts.
- **CAPACITANCE TOLERANCE:** Available in standard EIA nominal values with ±20%, ±10% and ±5% tolerance.
- **DISSIPATION FACTOR:** Maximum DF limits are shown in corresponding series part number listings on pages 44-48. See Application Notes Section, page 76 for additional description.
- **DC LEAKAGE CURRENT:** Each corresponding part number table lists maximum leakage current for each capacitor on pages 44 through 48. See Application Notes Section, page 76 for additional description.
- **RATED VOLTAGE; WORKING VOLTAGE; SURGE VOLTAGE; REVERSE VOLTAGE:** See Application Notes Section, page 76 & 77 for description.
- **AC RIPPLE VOLTAGE:** Permissible AC ripple voltage is related to equivalent series resistance (ESR) and power dissipation capability. Maximum power dissipation for each case size is listed in Table below. For additional description see page 79.

| Case Size | Power Dissipation (max.) @ 25°C (watts) |
|-----------|-----------------------------------------|
| A         | .060                                    |
| B         | .070                                    |
| C         | .080                                    |
| D         | .090                                    |
| E         | .100                                    |
| F         | .110                                    |

Maximum Power Dissipation Capability @ 25°C

- **IMPEDANCE and ESR:** See Application Notes Section, pages 77 & 78 for description. Reference ESR values are shown in adjoining column, this page.
- **ENVIRONMENTAL CONSIDERATIONS:**
  - Shock Test: MIL-STD-202, Method 213.
  - Thermal Shock, MIL-STD-202, Method 107.
  - Moisture Resistance: MIL-STD-202, Method 106.
  - Solderability: MIL-STD-202, Method 208.

**T322 ESR (OHMS) at 100 kHz @ +25°C**  
**(The ESR values provided below are for reference only. No warranty, as stated on page 3 and reincorporated here, is made as to the accuracy of these values for any particular T322 Series product.)**

| Cap. µF | 6 Volt | 10 Volt | 15 Volt | 20 Volt | 25 Volt | 35 Volt | 50 Volt |
|---------|--------|---------|---------|---------|---------|---------|---------|
| 0.10    |        |         |         |         |         | 26.0    | 26.0    |
| 0.12    |        |         |         |         |         | 26.0    | 26.0    |
| 0.15    |        |         |         |         |         | 21.0    | 21.0    |
| 0.18    |        |         |         |         |         | 21.0    | 21.0    |
| 0.22    |        |         |         |         |         | 17.0    | 17.0    |
| 0.27    |        |         |         |         |         | 17.0    | 17.0    |
| 0.33    |        |         |         |         |         | 15.0    | 15.0    |
| 0.39    |        |         |         |         |         | 15.0    | 15.0    |
| 0.47    |        |         |         |         | 16.0    | 13.0    | 13.0    |
| 0.56    |        |         |         |         | 14.0    | 13.0    | 13.0    |
| 0.68    |        |         |         |         | 12.0    | 10.0    | 10.0    |
| 0.82    |        |         |         |         | 12.0    | 10.0    | 10.0    |
| 1.00    |        |         |         | 10.0    | 10.0    | 8.0     | 8.0     |
| 1.20    |        |         |         | 10.0    | 10.0    | 8.0     | 8.0     |
| 1.50    |        |         | 10.0    | 9.0     | 8.0     | 6.0     | 5.0     |
| 1.80    |        |         | 10.0    | 9.0     | 8.0     | 6.0     | 5.0     |
| 2.20    |        | 13.0    | 8.0     | 7.0     | 6.0     | 5.0     | 3.5     |
| 2.70    |        | 13.0    | 8.0     | 7.0     | 6.0     | 5.0     | 3.5     |
| 3.30    | 13.0   | 10.0    | 6.0     | 5.5     | 5.0     | 4.0     | 3.0     |
| 3.90    | 13.0   | 10.0    | 6.0     | 5.5     | 5.0     | 4.0     | 3.0     |
| 4.70    | 10.0   | 8.0     | 5.0     | 4.5     | 4.0     | 3.0     | 2.5     |
| 5.60    | 10.0   | 8.0     | 5.0     | 4.5     | 4.0     | 3.0     | 2.5     |
| 6.80    | 8.0    | 6.0     | 4.0     | 3.6     | 3.1     | 2.5     | 2.0     |
| 8.20    | 8.0    | 6.0     | 4.0     | 3.6     | 3.1     | 2.5     | 2.0     |
| 10.0    | 6.0    | 5.0     | 3.2     | 2.9     | 2.5     | 2.0     | 1.6     |
| 12.0    | 6.0    | 5.0     | 3.2     | 2.9     | 2.5     | 2.0     | 1.6     |
| 15.0    | 5.0    | 3.7     | 2.5     | 2.3     | 2.0     | 1.6     | 1.2     |
| 18.0    | 5.0    | 3.7     | 2.5     | 2.3     | 2.0     | 1.6     | 1.2     |
| 22.0    | 3.7    | 2.7     | 2.0     | 1.8     | 1.5     | 1.3     | 1.0     |
| 27.0    | 3.7    | 2.7     | 2.0     | 1.8     | 1.5     | 1.3     | 1.0     |
| 33.0    | 3.0    | 2.1     | 1.6     | 1.4     | 1.2     | 1.0     |         |
| 39.0    | 3.0    | 2.1     | 1.6     | 1.4     | 1.2     | 1.0     |         |
| 47.0    | 2.0    | 1.7     | 1.3     | 1.2     | 1.0     | 0.8     |         |
| 56.0    | 2.0    | 1.7     | 1.3     | 1.2     | 1.0     |         |         |
| 68.0    | 1.8    | 1.3     | 1.0     | 0.9     | 0.8     |         |         |
| 82.0    | 1.8    | 1.3     | 1.0     | 0.9     |         |         |         |
| 100.0   | 1.6    | 1.0     | 0.8     | 0.6     |         |         |         |
| 120.0   | 1.6    | 1.0     | 0.8     |         |         |         |         |
| 150.0   | 0.9    | 0.8     | 0.6     |         |         |         |         |
| 180.0   | 0.9    | 0.8     |         |         |         |         |         |
| 220.0   | 0.9    | 0.6     |         |         |         |         |         |
| 270.0   | 0.9    |         |         |         |         |         |         |
| 330.0   | 0.7    |         |         |         |         |         |         |

For additional Environmental Test Information see pages 80, 81 and 82.

- **LEAD MATERIAL:** Solder coated steel core with copper plating per MIL-STD-1276.
- **LEAD TAPE and REEL:** Reeling per specification RS-296. See pages 71 and 73 for additional information.

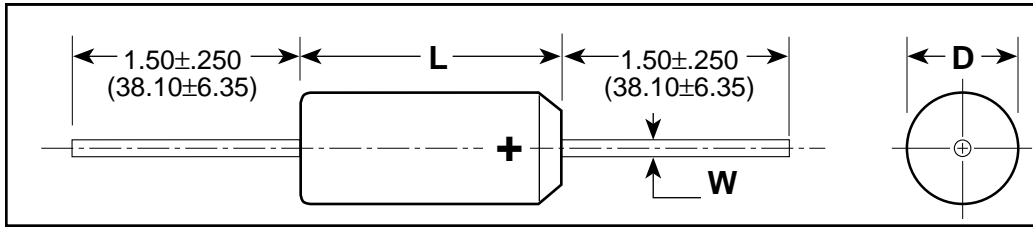
# TANTALUM MOLDED / AXIAL — MIL-PRF-49137/1 & 5

T322 & T323 (CX01 & CX05) SERIES



Effective September 30, 2005, the KEMET T322 Series is RoHS compliant.

## CAPACITOR OUTLINE DRAWINGS



## DIMENSIONS — INCHES & (MILLIMETERS)

| CASE SIZE | D (MAX)     | L (MAX)      | W          |
|-----------|-------------|--------------|------------|
| A         | .095 (2.41) | .260 (6.6)   | .020 (.51) |
| B         | .110 (2.79) | .290 (7.37)  | .020 (.51) |
| C         | .180 (4.57) | .345 (8.76)  | .020 (.51) |
| D         | .180 (4.57) | .420 (10.67) | .020 (.51) |
| E         | .280 (7.11) | .530 (13.46) | .025 (.64) |
| F         | .300 (7.62) | .710 (18.03) | .025 (.64) |

## T322 & T323 ORDERING INFORMATION

**TANTALUM** — T

**SERIES** — 32X  
Sub-Miniature, Molded, Polar, Solid Tantalum, Insert appropriate number to replace letter "X" — 322 or 323 (CX01, CX05).

**CASE SIZE** — A  
A, B, C, D, E, or F

**CAPACITANCE IN PICOFARADS** — 474  
First two digits are significant figures. Third digit is number of zeros following.

**VOLTAGE RATING** — M  
M — ±20%  
K — ±10%  
J — ±5%

**LEAD MATERIAL** — 035  
S — Standard  
T — 100% Tin

**FAILURE RATE LEVEL** — A  
A — Not Applicable

**SPECIFICATION (when necessary)** — S — Standard  
— Reeling Per EIA Specification RS-296

**CAPACITANCE TOLERANCE** — C\*  
\*M & K only tolerances available for T323 Series.

**\*Part Number Example: T322A474M035AS (14 digits – no spaces)**

## MIL-PRF-49137/5 MILITARY ORDERING INFORMATION

**TYPE** — CX  
Capacitor, Fixed, Solid Tantalum, Molded, Non-hermetically Sealed

**STYLE** — 05  
01, 05 (T323) A, B, C, and D

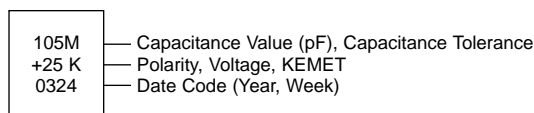
**VOLTAGE** — D

**CAPACITANCE TOLERANCE** — 225  
K — 10%  
M — 20%

| Symbol | Rated (85°C) Volts, DC | Surge (85°C) Volts, DC |
|--------|------------------------|------------------------|
| D      | 6                      | 8.0                    |
| F      | 10                     | 13.0                   |
| H      | 15                     | 20.0                   |
| J      | 20                     | 26.0                   |
| K      | 25                     | 32.0                   |
| M      | 35                     | 46.0                   |
| N      | 50                     | 65.0                   |

**CAPACITANCE TOLERANCE**  
The nominal capacitance value, expressed in picofarads (pF), is identified by a three-digit number; the first two digits represent significant figures and the last digit specifies the number of zeros to follow.

## CAPACITOR MARKING



T322/T323 Tantalum Molded / Axial



# TANTALUM MOLDED / AXIAL — MIL-PRF-49137/1 & 5

## T322 & T323 (CX01 & CX05) SERIES

### RATINGS & PART NUMBER REFERENCE

| CAPACITANCE<br>µF                                       | CASE<br>SIZE | CAPACITANCE<br>TOLERANCE<br>±% | KEMET T322 SERIES       |                             |                                                    | CX01 & CX05 CAPACITORS<br>PER MIL-PRF-49137/1 & 5 |                       |
|---------------------------------------------------------|--------------|--------------------------------|-------------------------|-----------------------------|----------------------------------------------------|---------------------------------------------------|-----------------------|
|                                                         |              |                                | KEMET<br>PART NUMBER    | D. C.<br>LEAKAGE<br>µA@25°C | MAX.<br>DISSIPATION<br>FACTOR<br>%@25°C,<br>120 HZ | MILITARY<br>PART NUMBER                           | KEMET<br>PART NUMBER  |
| <b>2 VOLT RATING AT 85°C — 1.3 VOLT RATING AT 125°C</b> |              |                                |                         |                             |                                                    |                                                   |                       |
| <b>6.8</b>                                              | <b>A</b>     | <b>5,10,20</b>                 | <b>T322A685(1)002AS</b> | <b>0.5</b>                  | <b>10</b>                                          |                                                   |                       |
| 8.2                                                     | A            | 5,10,20                        | T322A825(1)002AS        | 0.5                         | 10                                                 |                                                   |                       |
| 10.0                                                    | A            | 5,10,20                        | T322A106(1)002AS        | 0.5                         | 10                                                 |                                                   |                       |
| 12.0                                                    | B            | 5,10,20                        | T322B126(1)002AS        | 0.5                         | 10                                                 |                                                   |                       |
| <b>15.0</b>                                             | <b>B</b>     | <b>5,10,20</b>                 | <b>T322B156(1)002AS</b> | <b>0.5</b>                  | <b>10</b>                                          |                                                   |                       |
| 18.0                                                    | B            | 5,10,20                        | T322B186(1)002AS        | 0.5                         | 10                                                 |                                                   |                       |
| <b>22.0</b>                                             | <b>B</b>     | <b>5,10,20</b>                 | <b>T322B226(1)002AS</b> | <b>0.5</b>                  | <b>10</b>                                          |                                                   |                       |
| 27.0                                                    | B            | 5,10,20                        | T322B276(1)002AS        | 0.5                         | 10                                                 |                                                   |                       |
| <b>33.0</b>                                             | <b>B</b>     | <b>5,10,20</b>                 | <b>T322B336(1)002AS</b> | <b>0.5</b>                  | <b>10</b>                                          |                                                   |                       |
| 39.0                                                    | C            | 5,10,20                        | T322C396(1)002AS        | 0.6                         | 10                                                 |                                                   |                       |
| <b>47.0</b>                                             | <b>C</b>     | <b>5,10,20</b>                 | <b>T322C476(1)002AS</b> | <b>0.8</b>                  | <b>10</b>                                          |                                                   |                       |
| 56.0                                                    | C            | 5,10,20                        | T322C566(1)002AS        | 0.9                         | 10                                                 |                                                   |                       |
| <b>68.0</b>                                             | <b>C</b>     | <b>5,10,20</b>                 | <b>T322C686(1)002AS</b> | <b>1.1</b>                  | <b>10</b>                                          |                                                   |                       |
| <b>4 VOLT RATING AT 85°C — 2.7 VOLT RATING AT 125°C</b> |              |                                |                         |                             |                                                    |                                                   |                       |
| <b>4.7</b>                                              | <b>A</b>     | <b>5,10,20</b>                 | <b>T322A475(1)004AS</b> | <b>0.5</b>                  | <b>8</b>                                           |                                                   |                       |
| 5.6                                                     | A            | 5,10,20                        | T322A565(1)004AS        | 0.5                         | 8                                                  |                                                   |                       |
| <b>6.8</b>                                              | <b>A</b>     | <b>5,10,20</b>                 | <b>T322A685(1)004AS</b> | <b>0.5</b>                  | <b>8</b>                                           |                                                   |                       |
| 8.2                                                     | B            | 5,10,20                        | T322B825(1)004AS        | 0.5                         | 8                                                  |                                                   |                       |
| <b>10.0</b>                                             | <b>B</b>     | <b>5,10,20</b>                 | <b>T322B106(1)004AS</b> | <b>0.5</b>                  | <b>8</b>                                           |                                                   |                       |
| 12.0                                                    | B            | 5,10,20                        | T322B126(1)004AS        | 0.5                         | 8                                                  |                                                   |                       |
| <b>15.0</b>                                             | <b>B</b>     | <b>5,10,20</b>                 | <b>T322B156(1)004AS</b> | <b>0.5</b>                  | <b>8</b>                                           |                                                   |                       |
| 18.0                                                    | B            | 5,10,20                        | T322B186(1)004AS        | 0.6                         | 8                                                  |                                                   |                       |
| <b>22.0</b>                                             | <b>B</b>     | <b>5,10,20</b>                 | <b>T322B226(1)004AS</b> | <b>0.7</b>                  | <b>8</b>                                           |                                                   |                       |
| 27.0                                                    | C            | 5,10,20                        | T322C276(1)004AS        | 0.9                         | 8                                                  |                                                   |                       |
| <b>33.0</b>                                             | <b>C</b>     | <b>5,10,20</b>                 | <b>T322C336(1)004AS</b> | <b>1.1</b>                  | <b>8</b>                                           |                                                   |                       |
| 39.0                                                    | C            | 5,10,20                        | T322C396(1)004AS        | 1.2                         | 8                                                  |                                                   |                       |
| <b>47.0</b>                                             | <b>C</b>     | <b>5,10,20</b>                 | <b>T322C476(1)004AS</b> | <b>1.5</b>                  | <b>8</b>                                           |                                                   |                       |
| 56.0                                                    | D            | 5,10,20                        | T322D566(1)004AS        | 1.8                         | 8                                                  |                                                   |                       |
| <b>68.0</b>                                             | <b>D</b>     | <b>5,10,20</b>                 | <b>T322D686(1)004AS</b> | <b>2.2</b>                  | <b>8</b>                                           |                                                   |                       |
| <b>6 VOLT RATING AT 85°C — 4 VOLT RATING AT 125°C</b>   |              |                                |                         |                             |                                                    |                                                   |                       |
| <b>3.3</b>                                              | <b>A</b>     | <b>5,10,20</b>                 | <b>T322A335(1)006AS</b> | <b>0.5</b>                  | <b>4</b>                                           |                                                   |                       |
| 3.9                                                     | A            | 5,10,20                        | T322A395(1)006AS        | 0.5                         | 4                                                  |                                                   |                       |
| <b>4.7</b>                                              | <b>A</b>     | <b>5</b>                       | <b>T322A475J006AS</b>   | <b>0.5</b>                  | <b>4</b>                                           |                                                   |                       |
| <b>4.7</b>                                              | <b>A</b>     | <b>10</b>                      | <b>T322A475K006AS</b>   | <b>0.5</b>                  | <b>4</b>                                           | <b>CX05D475K</b>                                  | <b>T323A475K006AS</b> |
| <b>4.7</b>                                              | <b>A</b>     | <b>20</b>                      | <b>T322A475M006AS</b>   | <b>0.5</b>                  | <b>4</b>                                           | <b>CX05D475M</b>                                  | <b>T323A475M006AS</b> |
| 5.6                                                     | B            | 5                              | T322B565J006AS          | 0.5                         | 4                                                  |                                                   |                       |
| 5.6                                                     | B            | 10                             | T322B565K006AS          | 0.5                         | 4                                                  | CX01D565K                                         | T323B565K 006AS       |
| 5.6                                                     | B            | 20                             | T322B565M006AS          | 0.5                         | 4                                                  | CX01D565M                                         | T323B565M006AS        |
| <b>6.8</b>                                              | <b>B</b>     | <b>5</b>                       | <b>T322B685J006AS</b>   | <b>0.5</b>                  | <b>6</b>                                           |                                                   |                       |
| <b>6.8</b>                                              | <b>B</b>     | <b>10</b>                      | <b>T322B685K006AS</b>   | <b>0.5</b>                  | <b>6</b>                                           | <b>CX01D685K</b>                                  | <b>T323B685K006AS</b> |
| <b>6.8</b>                                              | <b>B</b>     | <b>20</b>                      | <b>T322B685M006AS</b>   | <b>0.5</b>                  | <b>6</b>                                           | <b>CX01D685M</b>                                  | <b>T323B685M006AS</b> |
| 8.2                                                     | B            | 5                              | T322B825J006AS          | 0.5                         | 6                                                  |                                                   |                       |
| 8.2                                                     | B            | 10                             | T322B825K006AS          | 0.5                         | 6                                                  | CX01D825K                                         | T323B825K 006AS       |
| 8.2                                                     | B            | 20                             | T322B825M006AS          | 0.5                         | 6                                                  | CX01D825M                                         | T323B825M006AS        |
| <b>10.0</b>                                             | <b>B</b>     | <b>5</b>                       | <b>T322B106J006AS</b>   | <b>0.5</b>                  | <b>6</b>                                           |                                                   |                       |
| <b>10.0</b>                                             | <b>B</b>     | <b>10</b>                      | <b>T322B106K006AS</b>   | <b>0.5</b>                  | <b>6</b>                                           | <b>CX01D106K</b>                                  | <b>T323B106K006AS</b> |
| <b>10.0</b>                                             | <b>B</b>     | <b>20</b>                      | <b>T322B106M006AS</b>   | <b>0.5</b>                  | <b>6</b>                                           | <b>CX01D106M</b>                                  | <b>T323B106M006AS</b> |
| 12.0                                                    | B            | 5                              | T322B126J006AS          | 0.6                         | 6                                                  |                                                   |                       |
| 12.0                                                    | B            | 10                             | T322B126K006AS          | 0.6                         | 6                                                  | CX01D126K                                         | T323B126K 006AS       |
| 12.0                                                    | B            | 20                             | T322B126M006AS          | 0.6                         | 6                                                  | CX01D126M                                         | T323B126M006AS        |
| <b>15.0</b>                                             | <b>B</b>     | <b>5</b>                       | <b>T322B156J006AS</b>   | <b>0.7</b>                  | <b>6</b>                                           |                                                   |                       |
| <b>15.0</b>                                             | <b>B</b>     | <b>10</b>                      | <b>T322B156K006AS</b>   | <b>0.7</b>                  | <b>6</b>                                           | <b>CX05D156K</b>                                  | <b>T323B156K006AS</b> |
| <b>15.0</b>                                             | <b>B</b>     | <b>20</b>                      | <b>T322B156M006AS</b>   | <b>0.7</b>                  | <b>6</b>                                           | <b>CX05D156M</b>                                  | <b>T323B156M006AS</b> |
| 18.0                                                    | C            | 5,10,20                        | T322C186(1)006AS        | 0.9                         | 6                                                  |                                                   |                       |
| <b>22.0</b>                                             | <b>C</b>     | <b>5,10,20</b>                 | <b>T322C226(1)006AS</b> | <b>1.1</b>                  | <b>6</b>                                           |                                                   |                       |
| 27.0                                                    | C            | 5,10,20                        | T322C276(1)006AS        | 1.3                         | 6                                                  |                                                   |                       |
| <b>33.0</b>                                             | <b>C</b>     | <b>5</b>                       | <b>T322C336J006AS</b>   | <b>1.5</b>                  | <b>6</b>                                           |                                                   |                       |
| <b>33.0</b>                                             | <b>C</b>     | <b>10</b>                      | <b>T322C336K006AS</b>   | <b>1.5</b>                  | <b>6</b>                                           | <b>CX05D336K</b>                                  | <b>T323C336K006AS</b> |
| <b>33.0</b>                                             | <b>C</b>     | <b>20</b>                      | <b>T322C336M006AS</b>   | <b>1.5</b>                  | <b>6</b>                                           | <b>CX05D336M</b>                                  | <b>T323C336M006AS</b> |
| 39.0                                                    | D            | 5,10,20                        | T322D396(1)006AS        | 1.9                         | 6                                                  |                                                   |                       |
| <b>47.0</b>                                             | <b>D</b>     | <b>5</b>                       | <b>T322D476J006AS</b>   | <b>2.3</b>                  | <b>6</b>                                           |                                                   |                       |
| <b>47.0</b>                                             | <b>D</b>     | <b>10</b>                      | <b>T322D476K006AS</b>   | <b>2.3</b>                  | <b>6</b>                                           | <b>CX05D476K</b>                                  | <b>T323D476K006AS</b> |
| <b>47.0</b>                                             | <b>D</b>     | <b>20</b>                      | <b>T322D476M006AS</b>   | <b>2.3</b>                  | <b>6</b>                                           | <b>CX05D476M</b>                                  | <b>T323D476M006AS</b> |
| 56.0                                                    | D            | 5,10,20                        | T322D566(1)006AS        | 2.7                         | 6                                                  |                                                   |                       |
| <b>68.0</b>                                             | <b>D</b>     | <b>5,10,20</b>                 | <b>T322D686(1)006AS</b> | <b>3.3</b>                  | <b>6</b>                                           |                                                   |                       |

(1) To complete KEMET Part Number, insert Capacitance Tolerance Symbol as follows: M — ±20%, K — ±10%, J — ±5%  
**Bold Face** lines indicate preferred part types and values.

RATINGS & PART NUMBER REFERENCE

| CAPACITANCE<br>µF                                              | CASE<br>SIZE | CAPACITANCE<br>TOLERANCE<br>±% | KEMET T322 SERIES       |                             |                                                    | CX01 & CX05 CAPACITORS<br>PER MIL-PRF-49137/1 & 5 |                      |
|----------------------------------------------------------------|--------------|--------------------------------|-------------------------|-----------------------------|----------------------------------------------------|---------------------------------------------------|----------------------|
|                                                                |              |                                | KEMET<br>PART NUMBER    | D. C.<br>LEAKAGE<br>µA@25°C | MAX.<br>DISSIPATION<br>FACTOR<br>%@25°C,<br>120 HZ | MILITARY<br>PART NUMBER                           | KEMET<br>PART NUMBER |
| <b>6 VOLT RATING AT 85°C — 4 VOLT RATING AT 125°C (Cont'd)</b> |              |                                |                         |                             |                                                    |                                                   |                      |
| 82.0                                                           | E            | 5,10,20                        | T322E826(1)006AS        | 3.9                         | 8                                                  |                                                   |                      |
| <b>100.0</b>                                                   | <b>E</b>     | <b>5,10,20</b>                 | <b>T322E107(1)006AS</b> | <b>4.8</b>                  | <b>8</b>                                           |                                                   |                      |
| 120.0                                                          | E            | 5,10,20                        | T322E127(1)006AS        | 5.0                         | 8                                                  |                                                   |                      |
| <b>150.0</b>                                                   | <b>E</b>     | <b>5,10,20</b>                 | <b>T322E157(1)006AS</b> | <b>5.0</b>                  | <b>8</b>                                           |                                                   |                      |
| 180.0                                                          | E            | 5,10,20                        | T322E187(1)006AS        | 8.6                         | 8                                                  |                                                   |                      |
| <b>220.0</b>                                                   | <b>E</b>     | <b>5,10,20</b>                 | <b>T322E227(1)006AS</b> | <b>10.0</b>                 | <b>8</b>                                           |                                                   |                      |
| 270.0                                                          | F            | 5,10,20                        | T322F277(1)006AS        | 10.0                        | 8                                                  |                                                   |                      |
| <b>330.0</b>                                                   | <b>F</b>     | <b>5,10,20</b>                 | <b>T322F337(1)006AS</b> | <b>10.0</b>                 | <b>8</b>                                           |                                                   |                      |
| <b>10 VOLT RATING AT 85°C — 7 VOLT RATING AT 125°C</b>         |              |                                |                         |                             |                                                    |                                                   |                      |
| <b>2.2</b>                                                     | <b>A</b>     | <b>5,10,20</b>                 | <b>T322A225(1)010AS</b> | <b>0.5</b>                  | <b>4</b>                                           |                                                   |                      |
| 2.7                                                            | A            | 5,10,20                        | T322A275(1)010AS        | 0.5                         | 4                                                  |                                                   |                      |
| <b>3.3</b>                                                     | <b>A</b>     | <b>5</b>                       | <b>T322A335J010AS</b>   | <b>0.5</b>                  | <b>4</b>                                           |                                                   |                      |
| <b>3.3</b>                                                     | <b>A</b>     | <b>10</b>                      | <b>T322A335K010AS</b>   | <b>0.5</b>                  | <b>4</b>                                           | CX05F335K                                         | T323A335K010AS       |
| <b>3.3</b>                                                     | <b>A</b>     | <b>20</b>                      | <b>T322A335M010AS</b>   | <b>0.5</b>                  | <b>4</b>                                           | CX05F335M                                         | T323A335M010AS       |
| 3.9                                                            | B            | 5,10,20                        | T322B395(1)010AS        | 0.5                         | 4                                                  |                                                   |                      |
| <b>4.7</b>                                                     | <b>B</b>     | <b>5,10,20</b>                 | <b>T322B475(1)010AS</b> | <b>0.5</b>                  | <b>4</b>                                           |                                                   |                      |
| 5.6                                                            | B            | 5,10,20                        | T322B565(1)010AS        | 0.5                         | 4                                                  |                                                   |                      |
| <b>6.8</b>                                                     | <b>B</b>     | <b>5,10,20</b>                 | <b>T322B685(1)010AS</b> | <b>0.5</b>                  | <b>6</b>                                           |                                                   |                      |
| 8.2                                                            | B            | 5,10,20                        | T322B825(1)010AS        | 0.7                         | 6                                                  |                                                   |                      |
| <b>10.0</b>                                                    | <b>B</b>     | <b>5</b>                       | <b>T322B106J010AS</b>   | <b>0.8</b>                  | <b>6</b>                                           |                                                   |                      |
| <b>10.0</b>                                                    | <b>B</b>     | <b>10</b>                      | <b>T322B106K010AS</b>   | <b>0.8</b>                  | <b>6</b>                                           | CX05F106K                                         | T323B106K010AS       |
| <b>10.0</b>                                                    | <b>B</b>     | <b>20</b>                      | <b>T322B106M010AS</b>   | <b>0.8</b>                  | <b>6</b>                                           | CX05F106M                                         | T323B106M010AS       |
| 12.0                                                           | C            | 5,10,20                        | T322C126(1)010AS        | 1.0                         | 6                                                  |                                                   |                      |
| <b>15.0</b>                                                    | <b>C</b>     | <b>5,10,20</b>                 | <b>T322C156(1)010AS</b> | <b>1.2</b>                  | <b>6</b>                                           |                                                   |                      |
| 18.0                                                           | C            | 5,10,20                        | T322C186(1)010AS        | 1.4                         | 6                                                  |                                                   |                      |
| <b>22.0</b>                                                    | <b>C</b>     | <b>5</b>                       | <b>T322C226J010AS</b>   | <b>1.5</b>                  | <b>6</b>                                           |                                                   |                      |
| <b>22.0</b>                                                    | <b>C</b>     | <b>10</b>                      | <b>T322C226K010AS</b>   | <b>1.5</b>                  | <b>6</b>                                           | CX05F226K                                         | T323C226K010AS       |
| <b>22.0</b>                                                    | <b>C</b>     | <b>20</b>                      | <b>T322C226M010AS</b>   | <b>1.5</b>                  | <b>6</b>                                           | CX05F226M                                         | T323C226M010AS       |
| 27.0                                                           | D            | 5                              | T322D276J010AS          | 2.2                         | 6                                                  |                                                   |                      |
| 27.0                                                           | D            | 10                             | T322D276K010AS          | 2.2                         | 6                                                  | CX05F276K                                         | T323D276K010AS       |
| 27.0                                                           | D            | 20                             | T322D276M010AS          | 2.2                         | 6                                                  | CX05F276M                                         | T323D276M010AS       |
| <b>33.0</b>                                                    | <b>D</b>     | <b>5</b>                       | <b>T322D336J010AS</b>   | <b>2.6</b>                  | <b>6</b>                                           |                                                   |                      |
| <b>33.0</b>                                                    | <b>D</b>     | <b>10</b>                      | <b>T322D336K010AS</b>   | <b>2.6</b>                  | <b>6</b>                                           | CX05F336K                                         | T323D336K010AS       |
| <b>33.0</b>                                                    | <b>D</b>     | <b>20</b>                      | <b>T322D336M010AS</b>   | <b>2.6</b>                  | <b>6</b>                                           | CX05F336M                                         | T323D336M010AS       |
| 39.0                                                           | D            | 5                              | T322D396J010AS          | 3.1                         | 6                                                  |                                                   |                      |
| 39.0                                                           | D            | 10                             | T322D396K010AS          | 3.1                         | 6                                                  | CX05F396K                                         | T323D396K010AS       |
| 39.0                                                           | D            | 20                             | T322D396M010AS          | 3.1                         | 6                                                  | CX05F396M                                         | T323D396M010AS       |
| <b>47.0</b>                                                    | <b>D</b>     | <b>5</b>                       | <b>T322D476J010AS</b>   | <b>3.8</b>                  | <b>6</b>                                           |                                                   |                      |
| <b>47.0</b>                                                    | <b>D</b>     | <b>10</b>                      | <b>T322D476K010AS</b>   | <b>3.8</b>                  | <b>6</b>                                           | CX05F476K                                         | T323D476K010AS       |
| <b>47.0</b>                                                    | <b>D</b>     | <b>20</b>                      | <b>T322D476M010AS</b>   | <b>3.8</b>                  | <b>6</b>                                           | CX05F476M                                         | T323D476M010AS       |
| 56.0                                                           | E            | 5,10,20                        | T322E566(1)010AS        | 4.4                         | 6                                                  |                                                   |                      |
| <b>68.0</b>                                                    | <b>E</b>     | <b>5,10,20</b>                 | <b>T322E686(1)010AS</b> | <b>5.0</b>                  | <b>6</b>                                           |                                                   |                      |
| 82.0                                                           | E            | 5,10,20                        | T322E826(1)010AS        | 5.0                         | 8                                                  |                                                   |                      |
| <b>100.0</b>                                                   | <b>E</b>     | <b>5,10,20</b>                 | <b>T322E107(1)010AS</b> | <b>8.0</b>                  | <b>8</b>                                           |                                                   |                      |
| 120.0                                                          | E            | 5,10,20                        | T322E127(1)010AS        | 9.6                         | 8                                                  |                                                   |                      |
| <b>150.0</b>                                                   | <b>E</b>     | <b>5,10,20</b>                 | <b>T322E157(1)010AS</b> | <b>10.0</b>                 | <b>8</b>                                           |                                                   |                      |
| 180.0                                                          | F            | 5,10,20                        | T322F187(1)010AS        | 10.0                        | 8                                                  |                                                   |                      |
| <b>220.0</b>                                                   | <b>F</b>     | <b>5,10,20</b>                 | <b>T322F227(1)010AS</b> | <b>10.0</b>                 | <b>8</b>                                           |                                                   |                      |
| <b>15 VOLT RATING AT 85°C — 10 VOLT RATING AT 125°C</b>        |              |                                |                         |                             |                                                    |                                                   |                      |
| <b>1.5</b>                                                     | <b>A</b>     | <b>5,10,20</b>                 | <b>T322A155(1)015AS</b> | <b>0.5</b>                  | <b>4</b>                                           |                                                   |                      |
| 1.8                                                            | A            | 5,10,20                        | T322A185(1)015AS        | 0.5                         | 4                                                  |                                                   |                      |
| <b>2.2</b>                                                     | <b>A</b>     | <b>5</b>                       | <b>T322A225J015AS</b>   | <b>0.5</b>                  | <b>4</b>                                           |                                                   |                      |
| <b>2.2</b>                                                     | <b>A</b>     | <b>10</b>                      | <b>T322A225K015AS</b>   | <b>0.5</b>                  | <b>4</b>                                           | CX05H225K                                         | T323A225K015AS       |
| <b>2.2</b>                                                     | <b>A</b>     | <b>20</b>                      | <b>T322A225M015AS</b>   | <b>0.5</b>                  | <b>4</b>                                           | CX05H225M                                         | T323A225M015AS       |
| 2.7                                                            | B            | 5,10,20                        | T322B275(1)015AS        | 0.5                         | 4                                                  |                                                   |                      |
| <b>3.3</b>                                                     | <b>B</b>     | <b>5,10,20</b>                 | <b>T322B335(1)015AS</b> | <b>0.5</b>                  | <b>4</b>                                           |                                                   |                      |
| 3.9                                                            | B            | 5,10,20                        | T322B395(1)015AS        | 0.5                         | 4                                                  |                                                   |                      |
| <b>4.7</b>                                                     | <b>B</b>     | <b>5,10,20</b>                 | <b>T322B475(1)015AS</b> | <b>0.6</b>                  | <b>4</b>                                           |                                                   |                      |
| 5.6                                                            | B            | 5,10,20                        | T322B565(1)015AS        | 0.7                         | 4                                                  |                                                   |                      |
| <b>6.8</b>                                                     | <b>B</b>     | <b>5</b>                       | <b>T322B685J015AS</b>   | <b>0.8</b>                  | <b>6</b>                                           |                                                   |                      |
| <b>6.8</b>                                                     | <b>B</b>     | <b>10</b>                      | <b>T322B685K015AS</b>   | <b>0.8</b>                  | <b>6</b>                                           | CX05H685K                                         | T323B685K015AS       |
| <b>6.8</b>                                                     | <b>B</b>     | <b>20</b>                      | <b>T322B685M015AS</b>   | <b>0.8</b>                  | <b>6</b>                                           | CX05H685M                                         | T323B685M015AS       |
| 8.2                                                            | C            | 5,10,20                        | T322C825(1)015AS        | 1.0                         | 6                                                  |                                                   |                      |
| <b>10.0</b>                                                    | <b>C</b>     | <b>5,10,20</b>                 | <b>T322C106(1)015AS</b> | <b>1.2</b>                  | <b>6</b>                                           |                                                   |                      |
| 12.0                                                           | C            | 5,10,20                        | T322C126(1)015AS        | 1.4                         | 6                                                  |                                                   |                      |
| <b>15.0</b>                                                    | <b>C</b>     | <b>5</b>                       | <b>T322C156J015AS</b>   | <b>1.5</b>                  | <b>6</b>                                           |                                                   |                      |
| <b>15.0</b>                                                    | <b>C</b>     | <b>10</b>                      | <b>T322C156K015AS</b>   | <b>1.5</b>                  | <b>6</b>                                           | CX05H156K                                         | T323C156K015AS       |
| <b>15.0</b>                                                    | <b>C</b>     | <b>20</b>                      | <b>T322C156M015AS</b>   | <b>1.5</b>                  | <b>6</b>                                           | CX05H156M                                         | T323C156M015AS       |

(1) To complete KEMET Part Number, insert Capacitance Tolerance Symbol as follows: M — ±20%, K — ±10%, J — ±5%  
Bold Face lines indicate preferred part types and values.

T322/T323 Series Tantalum  
Molded / Axial



# TANTALUM MOLDED / AXIAL — MIL-PRF-49137/1 & 5

## T322 & T323 (CX01 & CX05) SERIES

### RATINGS & PART NUMBER REFERENCE

| CAPACITANCE<br>µF                                                | CASE<br>SIZE | CAPACITANCE<br>TOLERANCE<br>±% | KEMET T322 SERIES       |                             |                                                    | CX01 & CX05 CAPACITORS<br>PER MIL-PRF-49137/1 & 5 |                       |
|------------------------------------------------------------------|--------------|--------------------------------|-------------------------|-----------------------------|----------------------------------------------------|---------------------------------------------------|-----------------------|
|                                                                  |              |                                | KEMET<br>PART NUMBER    | D. C.<br>LEAKAGE<br>µA@25°C | MAX.<br>DISSIPATION<br>FACTOR<br>%@25°C,<br>120 HZ | MILITARY<br>PART NUMBER                           | KEMET<br>PART NUMBER  |
| <b>15 VOLT RATING AT 85°C — 10 VOLT RATING AT 125°C (Cont'd)</b> |              |                                |                         |                             |                                                    |                                                   |                       |
| 18.0                                                             | D            | 5,10,20                        | T322D186(1)015AS        | 2.2                         | 6                                                  |                                                   |                       |
| <b>22.0</b>                                                      | <b>D</b>     | <b>5</b>                       | <b>T322D226J015AS</b>   | <b>2.6</b>                  | <b>6</b>                                           |                                                   |                       |
| <b>22.0</b>                                                      | <b>D</b>     | <b>10</b>                      | <b>T322D226K015AS</b>   | <b>2.6</b>                  | <b>6</b>                                           | <b>CX05H226K</b>                                  | <b>T323D226K015AS</b> |
| <b>22.0</b>                                                      | <b>D</b>     | <b>20</b>                      | <b>T322D226M015AS</b>   | <b>2.6</b>                  | <b>6</b>                                           | <b>CX05H226M</b>                                  | <b>T323D226M015AS</b> |
| 27.0                                                             | D            | 5,10,20                        | T322D276(1)015AS        | 3.2                         | 6                                                  |                                                   |                       |
| <b>33.0</b>                                                      | <b>D</b>     | <b>5</b>                       | <b>T322D336J015AS</b>   | <b>4.0</b>                  | <b>6</b>                                           |                                                   |                       |
| <b>33.0</b>                                                      | <b>D</b>     | <b>10</b>                      | <b>T322D336K015AS</b>   | <b>4.0</b>                  | <b>6</b>                                           | <b>CX05H336K</b>                                  | <b>T323D336K015AS</b> |
| <b>33.0</b>                                                      | <b>D</b>     | <b>20</b>                      | <b>T322D336M015AS</b>   | <b>4.0</b>                  | <b>6</b>                                           | <b>CX05H336M</b>                                  | <b>T323E336M015AS</b> |
| 39.0                                                             | E            | 5,10,20                        | T322E396(1)015AS        | 4.7                         | 6                                                  |                                                   |                       |
| <b>47.0</b>                                                      | <b>E</b>     | <b>5,10,20</b>                 | <b>T322E476(1)015AS</b> | <b>5.0</b>                  | <b>6</b>                                           |                                                   |                       |
| <b>56.0</b>                                                      | <b>E</b>     | <b>5,10,20</b>                 | <b>T322E566(1)015AS</b> | <b>6.7</b>                  | <b>6</b>                                           |                                                   |                       |
| <b>68.0</b>                                                      | <b>E</b>     | <b>5,10,20</b>                 | <b>T322E686(1)015AS</b> | <b>8.2</b>                  | <b>6</b>                                           |                                                   |                       |
| 82.0                                                             | E            | 5,10,20                        | T322E826(1)015AS        | 9.8                         | 8                                                  |                                                   |                       |
| <b>100.0</b>                                                     | <b>E</b>     | <b>5,10,20</b>                 | <b>T322E107(1)015AS</b> | <b>10.0</b>                 | <b>8</b>                                           |                                                   |                       |
| 120.0                                                            | F            | 5,10,20                        | T322F127(1)015AS        | 10.0                        | 8                                                  |                                                   |                       |
| <b>150.0</b>                                                     | <b>F</b>     | <b>5,10,20</b>                 | <b>T322F157(1)015AS</b> | <b>10.0</b>                 | <b>8</b>                                           |                                                   |                       |
| <b>20 VOLT RATING AT 85°C — 13 VOLT RATING AT 125°C</b>          |              |                                |                         |                             |                                                    |                                                   |                       |
| <b>1.0</b>                                                       | <b>A</b>     | <b>5,10,20</b>                 | <b>T322A105(1)020AS</b> | <b>0.5</b>                  | <b>4</b>                                           |                                                   |                       |
| 1.2                                                              | A            | 5,10,20                        | T322A125(1)020AS        | 0.5                         | 4                                                  |                                                   |                       |
| <b>1.5</b>                                                       | <b>A</b>     | <b>5</b>                       | <b>T322A155J020AS</b>   | <b>0.5</b>                  | <b>4</b>                                           |                                                   |                       |
| <b>1.5</b>                                                       | <b>A</b>     | <b>10</b>                      | <b>T322A155K020AS</b>   | <b>0.5</b>                  | <b>4</b>                                           | <b>CX05J155K</b>                                  | <b>T323A155K020AS</b> |
| <b>1.5</b>                                                       | <b>A</b>     | <b>20</b>                      | <b>T322A155M020AS</b>   | <b>0.5</b>                  | <b>4</b>                                           | <b>CX05J155M</b>                                  | <b>T323A155M020AS</b> |
| 1.8                                                              | B            | 5,10,20                        | T322B185(1)020AS        | 0.5                         | 4                                                  |                                                   |                       |
| <b>2.2</b>                                                       | <b>B</b>     | <b>5,10,20</b>                 | <b>T322B225(1)020AS</b> | <b>0.5</b>                  | <b>4</b>                                           |                                                   |                       |
| 2.7                                                              | B            | 5,10,20                        | T322B275(1)020AS        | 0.5                         | 4                                                  |                                                   |                       |
| <b>3.3</b>                                                       | <b>B</b>     | <b>5,10,20</b>                 | <b>T322B335(1)020AS</b> | <b>0.5</b>                  | <b>4</b>                                           |                                                   |                       |
| 3.9                                                              | B            | 5,10,20                        | T322B395(1)020AS        | 0.6                         | 4                                                  |                                                   |                       |
| <b>4.7</b>                                                       | <b>B</b>     | <b>5</b>                       | <b>T322B475J020AS</b>   | <b>0.8</b>                  | <b>4</b>                                           |                                                   |                       |
| <b>4.7</b>                                                       | <b>B</b>     | <b>10</b>                      | <b>T322B475K020AS</b>   | <b>0.8</b>                  | <b>4</b>                                           | <b>CX05J475K</b>                                  | <b>T323B475K020AS</b> |
| <b>4.7</b>                                                       | <b>B</b>     | <b>20</b>                      | <b>T322B475M020AS</b>   | <b>0.8</b>                  | <b>4</b>                                           | <b>CX05J475M</b>                                  | <b>T323B475M020AS</b> |
| 5.6                                                              | C            | 5,10,20                        | T322C565(1)020AS        | 0.9                         | 4                                                  |                                                   |                       |
| 6.8                                                              | C            | 5,10,20                        | T322C685(1)020AS        | 1.1                         | 6                                                  |                                                   |                       |
| 8.2                                                              | C            | 5,10,20                        | T322C825(1)020AS        | 1.3                         | 6                                                  |                                                   |                       |
| <b>10.0</b>                                                      | <b>C</b>     | <b>5,10,20</b>                 | <b>T322C106(1)020AS</b> | <b>1.6</b>                  | <b>6</b>                                           |                                                   |                       |
| 12.0                                                             | D            | 5                              | T322D126J020AS          | 1.9                         | 6                                                  |                                                   |                       |
| 12.0                                                             | D            | 10                             | T322D126K020AS          | 1.9                         | 6                                                  | <b>CX05J126K</b>                                  | <b>T323D126K020AS</b> |
| 12.0                                                             | D            | 20                             | T322D126M020AS          | 1.9                         | 6                                                  | <b>CX05J126M</b>                                  | <b>T323D126M020AS</b> |
| <b>15.0</b>                                                      | <b>D</b>     | <b>5</b>                       | <b>T322D156J020AS</b>   | <b>2.4</b>                  | <b>6</b>                                           |                                                   |                       |
| <b>15.0</b>                                                      | <b>D</b>     | <b>10</b>                      | <b>T322D156K020AS</b>   | <b>2.4</b>                  | <b>6</b>                                           | <b>CX05J156K</b>                                  | <b>T323D156K020AS</b> |
| <b>15.0</b>                                                      | <b>D</b>     | <b>20</b>                      | <b>T322D156M020AS</b>   | <b>2.4</b>                  | <b>6</b>                                           | <b>CX05J156M</b>                                  | <b>T323D156M020AS</b> |
| 18.0                                                             | D            | 5,10,20                        | T322D186(1)020AS        | 2.9                         | 6                                                  |                                                   |                       |
| <b>22.0</b>                                                      | <b>D</b>     | <b>5,10,20</b>                 | <b>T322D226(1)020AS</b> | <b>3.5</b>                  | <b>6</b>                                           |                                                   |                       |
| 27.0                                                             | E            | 5,10,20                        | T322E276(1)020AS        | 4.3                         | 6                                                  |                                                   |                       |
| <b>33.0</b>                                                      | <b>E</b>     | <b>5,10,20</b>                 | <b>T322E336(1)020AS</b> | <b>5.0</b>                  | <b>6</b>                                           |                                                   |                       |
| 39.0                                                             | E            | 5,10,20                        | T322E396(1)020AS        | 6.2                         | 6                                                  |                                                   |                       |
| <b>47.0</b>                                                      | <b>E</b>     | <b>5,10,20</b>                 | <b>T322E476(1)020AS</b> | <b>7.5</b>                  | <b>6</b>                                           |                                                   |                       |
| 56.0                                                             | E            | 5,10,20                        | T322E566(1)020AS        | 8.9                         | 6                                                  |                                                   |                       |
| <b>68.0</b>                                                      | <b>E</b>     | <b>5,10,20</b>                 | <b>T322E686(1)020AS</b> | <b>10.0</b>                 | <b>6</b>                                           |                                                   |                       |
| 82.0                                                             | F            | 5,10,20                        | T322F826(1)020AS        | 10.0                        | 8                                                  |                                                   |                       |
| <b>100.0</b>                                                     | <b>F</b>     | <b>5,10,20</b>                 | <b>T322F107(1)020AS</b> | <b>10.0</b>                 | <b>8</b>                                           |                                                   |                       |
| <b>25 VOLT RATING AT 85°C — 17 VOLT RATING AT 125°C</b>          |              |                                |                         |                             |                                                    |                                                   |                       |
| <b>0.47</b>                                                      | <b>A</b>     | <b>5,10,20</b>                 | <b>T322A474(1)025AS</b> | <b>0.5</b>                  | <b>3</b>                                           |                                                   |                       |
| 0.56                                                             | A            | 5,10,20                        | T322A564(1)025AS        | 0.5                         | 3                                                  |                                                   |                       |
| <b>0.68</b>                                                      | <b>A</b>     | <b>5,10,20</b>                 | <b>T322A684(1)025AS</b> | <b>0.5</b>                  | <b>3</b>                                           |                                                   |                       |
| 0.82                                                             | A            | 5,10,20                        | T322A824(1)025AS        | 0.5                         | 3                                                  |                                                   |                       |
| <b>1.0</b>                                                       | <b>A</b>     | <b>5</b>                       | <b>T322A105J025AS</b>   | <b>0.5</b>                  | <b>3</b>                                           |                                                   |                       |
| <b>1.0</b>                                                       | <b>A</b>     | <b>10</b>                      | <b>T322A105K025AS</b>   | <b>0.5</b>                  | <b>3</b>                                           | <b>CX05K105K</b>                                  | <b>T323A105K025AS</b> |
| <b>1.0</b>                                                       | <b>A</b>     | <b>20</b>                      | <b>T322A105M025AS</b>   | <b>0.5</b>                  | <b>3</b>                                           | <b>CX05K105M</b>                                  | <b>T323A105M025AS</b> |
| 1.2                                                              | B            | 5,10,20                        | T322B125(1)025AS        | 0.5                         | 3                                                  |                                                   |                       |
| <b>1.5</b>                                                       | <b>B</b>     | <b>5</b>                       | <b>T322B155J025AS</b>   | <b>0.5</b>                  | <b>3</b>                                           |                                                   |                       |
| <b>1.5</b>                                                       | <b>B</b>     | <b>10</b>                      | <b>T322B155K025AS</b>   | <b>0.5</b>                  | <b>3</b>                                           | <b>CX01K155K</b>                                  | <b>T323B155K025AS</b> |
| <b>1.5</b>                                                       | <b>B</b>     | <b>20</b>                      | <b>T322B155M025AS</b>   | <b>0.5</b>                  | <b>3</b>                                           | <b>CX01K155M</b>                                  | <b>T323B155M020AS</b> |
| 1.8                                                              | B            | 5                              | T322B185J025AS          | 0.5                         | 3                                                  |                                                   |                       |
| 1.8                                                              | B            | 10                             | T322B185K025AS          | 0.5                         | 3                                                  | <b>CX01K185K</b>                                  | <b>T323B185K025AS</b> |
| 1.8                                                              | B            | 20                             | T322B185M025AS          | 0.5                         | 3                                                  | <b>CX01K185M</b>                                  | <b>T323B185M025AS</b> |
| <b>2.2</b>                                                       | <b>B</b>     | <b>5</b>                       | <b>T322B225J025AS</b>   | <b>0.5</b>                  | <b>3</b>                                           |                                                   |                       |
| <b>2.2</b>                                                       | <b>B</b>     | <b>10</b>                      | <b>T322B225K025AS</b>   | <b>0.5</b>                  | <b>3</b>                                           | <b>CX05K225K</b>                                  | <b>T323B225K025AS</b> |

(1) To complete KEMET Part Number, insert Capacitance Tolerance Symbol as follows: M — ±20%, K — ±10%, J — ±5%  
**Bold Face** lines indicate preferred part types and values.

TANTALUM MOLDED / AXIAL — MIL-PRF-49137/1 & 5  
T322 & T323 (CX01 & CX05) SERIES



RATINGS & PART NUMBER REFERENCE

| CAPACITANCE<br>µF                                                | CASE<br>SIZE | CAPACITANCE<br>TOLERANCE<br>±% | KEMET T322 SERIES       |                             |                                                    | CX01 & CX05 CAPACITORS<br>PER MIL-PRF-49137/1 & 5 |                                                |
|------------------------------------------------------------------|--------------|--------------------------------|-------------------------|-----------------------------|----------------------------------------------------|---------------------------------------------------|------------------------------------------------|
|                                                                  |              |                                | KEMET<br>PART NUMBER    | D. C.<br>LEAKAGE<br>µA@25°C | MAX.<br>DISSIPATION<br>FACTOR<br>%@25°C,<br>120 HZ | MILITARY<br>PART NUMBER                           | KEMET<br>PART NUMBER                           |
| <b>25 VOLT RATING AT 85°C — 17 VOLT RATING AT 125°C (Cont'd)</b> |              |                                |                         |                             |                                                    |                                                   |                                                |
| <b>2.2</b>                                                       | <b>B</b>     | <b>20</b>                      | <b>T322B225M025AS</b>   | <b>0.5</b>                  | <b>3</b>                                           | <b>CX01/5K225M</b>                                | <b>T323B225M025AS</b>                          |
| 2.7                                                              | B            | 5,10,20                        | T322B275(1)025AS        | 0.5                         | 3                                                  |                                                   |                                                |
| <b>3.3</b>                                                       | <b>B</b>     | <b>5</b>                       | <b>T322B335J025AS</b>   | <b>0.7</b>                  | <b>3</b>                                           |                                                   |                                                |
| <b>3.3</b>                                                       | <b>B</b>     | <b>10</b>                      | <b>T322B335K025AS</b>   | <b>0.7</b>                  | <b>3</b>                                           |                                                   |                                                |
| <b>3.3</b>                                                       | <b>B</b>     | <b>20</b>                      | <b>T322B335M025AS</b>   | <b>0.7</b>                  | <b>3</b>                                           |                                                   |                                                |
|                                                                  |              |                                |                         |                             |                                                    | <b>CX05K335M</b>                                  | <b>T323B335M025AS</b>                          |
| 3.9                                                              | C            | 5,10,20                        | T322C395(1)025AS        | 0.8                         | 3                                                  | <b>CX05K685K</b><br><b>CX05K685M</b>              | <b>T323C685K025AS</b><br><b>T323C685M025AS</b> |
| <b>4.7</b>                                                       | <b>C</b>     | <b>5,10,20</b>                 | <b>T322C475(1)025AS</b> | <b>0.9</b>                  | <b>4</b>                                           |                                                   |                                                |
| 5.6                                                              | C            | 5,10,20                        | T322C565(1)025AS        | 1.1                         | 4                                                  |                                                   |                                                |
| <b>6.8</b>                                                       | <b>C</b>     | <b>5</b>                       | <b>T322C685J025AS</b>   | <b>1.4</b>                  | <b>4</b>                                           |                                                   |                                                |
| <b>6.8</b>                                                       | <b>C</b>     | <b>10</b>                      | <b>T322C685K025AS</b>   | <b>1.4</b>                  | <b>4</b>                                           |                                                   |                                                |
| <b>6.8</b>                                                       | <b>C</b>     | <b>20</b>                      | <b>T322C685M025AS</b>   | <b>1.4</b>                  | <b>4</b>                                           |                                                   |                                                |
| 8.2                                                              | C            | 5,10,20                        | T322C825(1)025AS        | 1.5                         | 4                                                  |                                                   |                                                |
| 10.0                                                             | C            | 5                              | T322C106J025AS          | 1.5                         | 4                                                  |                                                   |                                                |
| 10.0                                                             | C            | 10                             | T322C106K025AS          | 1.5                         | 4                                                  |                                                   |                                                |
| 10.0                                                             | C            | 20                             | T322C106M025AS          | 1.5                         | 4                                                  |                                                   |                                                |
|                                                                  |              |                                |                         |                             |                                                    | <b>CX05K106M</b>                                  | <b>T323C106M025AS</b>                          |
| 12.0                                                             | D            | 5,10,20                        | T322D126(1)025AS        | 2.4                         | 4                                                  |                                                   |                                                |
| <b>15.0</b>                                                      | <b>D</b>     | <b>5,10,20</b>                 | <b>T322D156(1)025AS</b> | <b>3.0</b>                  | <b>4</b>                                           |                                                   |                                                |
| 18.0                                                             | E            | 5,10,20                        | T322E186(1)025AS        | 3.6                         | 6                                                  |                                                   |                                                |
| <b>22.0</b>                                                      | <b>E</b>     | <b>5,10,20</b>                 | <b>T322E226(1)025AS</b> | <b>4.4</b>                  | <b>6</b>                                           |                                                   |                                                |
| 27.0                                                             | E            | 5,10,20                        | T322E276(1)025AS        | 5.4                         | 6                                                  |                                                   |                                                |
| <b>33.0</b>                                                      | <b>E</b>     | <b>5,10,20</b>                 | <b>T322E336(1)025AS</b> | <b>6.6</b>                  | <b>6</b>                                           |                                                   |                                                |
| 39.0                                                             | E            | 5,10,20                        | T322E396(1)025AS        | 7.8                         | 6                                                  |                                                   |                                                |
| <b>47.0</b>                                                      | <b>E</b>     | <b>5,10,20</b>                 | <b>T322E476(1)025AS</b> | <b>9.4</b>                  | <b>6</b>                                           |                                                   |                                                |
| 56.0                                                             | F            | 5,10,20                        | T322F566(1)025AS        | 10.0                        | 6                                                  |                                                   |                                                |
| <b>68.0</b>                                                      | <b>F</b>     | <b>5,10,20</b>                 | <b>T322F686(1)025AS</b> | <b>10.0</b>                 | <b>6</b>                                           |                                                   |                                                |
| <b>35 VOLT RATING AT 85°C — 23 VOLT RATING AT 125°C</b>          |              |                                |                         |                             |                                                    |                                                   |                                                |
| <b>0.1</b>                                                       | <b>A</b>     | <b>5,10,20</b>                 | <b>T322A104(1)035AS</b> | <b>0.5</b>                  | <b>3</b>                                           | <b>CX05M334K</b><br><b>CX05M334M</b>              | <b>T323A334K035AS</b><br><b>T323A334M035AS</b> |
| 0.12                                                             | A            | 5,10,20                        | T322A124(1)035AS        | 0.5                         | 3                                                  |                                                   |                                                |
| <b>0.15</b>                                                      | <b>A</b>     | <b>5,10,20</b>                 | <b>T322A154(1)035AS</b> | <b>0.5</b>                  | <b>3</b>                                           |                                                   |                                                |
| 0.18                                                             | A            | 5,10,20                        | T322A184(1)035AS        | 0.5                         | 3                                                  |                                                   |                                                |
| <b>0.22</b>                                                      | <b>A</b>     | <b>5,10,20</b>                 | <b>T322A224(1)035AS</b> | <b>0.5</b>                  | <b>3</b>                                           |                                                   |                                                |
| 0.27                                                             | A            | 5,10,20                        | T322A274(1)035AS        | 0.5                         | 3                                                  |                                                   |                                                |
| <b>0.33</b>                                                      | <b>A</b>     | <b>5</b>                       | <b>T322A334J035AS</b>   | <b>0.5</b>                  | <b>3</b>                                           |                                                   |                                                |
| <b>0.33</b>                                                      | <b>A</b>     | <b>10</b>                      | <b>T322A334K035AS</b>   | <b>0.5</b>                  | <b>3</b>                                           |                                                   |                                                |
| <b>0.33</b>                                                      | <b>A</b>     | <b>20</b>                      | <b>T322A334M035AS</b>   | <b>0.5</b>                  | <b>3</b>                                           |                                                   |                                                |
| 0.39                                                             | A            | 5,10,20                        | T322A394(1)035AS        | 0.5                         | 3                                                  |                                                   |                                                |
| <b>0.47</b>                                                      | <b>A</b>     | <b>5</b>                       | <b>T322A474J035AS</b>   | <b>0.5</b>                  | <b>3</b>                                           |                                                   |                                                |
| <b>0.47</b>                                                      | <b>A</b>     | <b>10</b>                      | <b>T322A474K035AS</b>   | <b>0.5</b>                  | <b>3</b>                                           |                                                   |                                                |
| <b>0.47</b>                                                      | <b>A</b>     | <b>20</b>                      | <b>T322A474M035AS</b>   | <b>0.5</b>                  | <b>3</b>                                           |                                                   |                                                |
| 0.56                                                             | B            | 5                              | T322B564J035AS          | 0.5                         | 3                                                  |                                                   |                                                |
| 0.56                                                             | B            | 10                             | T322B564K035AS          | 0.5                         | 3                                                  |                                                   |                                                |
| 0.56                                                             | B            | 20                             | T322B564M035AS          | 0.5                         | 3                                                  | <b>CX01M564M</b>                                  | <b>T323B564M035AS</b>                          |
| <b>0.68</b>                                                      | <b>B</b>     | <b>5</b>                       | <b>T322B684J035AS</b>   | <b>0.5</b>                  | <b>3</b>                                           | <b>CX01M684K</b><br><b>CX01M684M</b>              | <b>T323B684K035AS</b><br><b>T323B684M035AS</b> |
| <b>0.68</b>                                                      | <b>B</b>     | <b>10</b>                      | <b>T322B684K035AS</b>   | <b>0.5</b>                  | <b>3</b>                                           |                                                   |                                                |
| <b>0.68</b>                                                      | <b>B</b>     | <b>20</b>                      | <b>T322B684M035AS</b>   | <b>0.5</b>                  | <b>3</b>                                           |                                                   |                                                |
| 0.82                                                             | B            | 5                              | T322B824J035AS          | 0.5                         | 3                                                  | <b>CX01M824K</b><br><b>CX01M824M</b>              | <b>T323B824K035AS</b><br><b>T323B824M035AS</b> |
| 0.82                                                             | B            | 10                             | T322B824K035AS          | 0.5                         | 3                                                  |                                                   |                                                |
| 0.82                                                             | B            | 20                             | T322B824M035AS          | 0.5                         | 3                                                  |                                                   |                                                |
| <b>1.0</b>                                                       | <b>B</b>     | <b>5</b>                       | <b>T322B105J035AS</b>   | <b>0.5</b>                  | <b>3</b>                                           | <b>CX01M105K</b><br><b>CX01M105M</b>              | <b>T323B105K035AS</b><br><b>T323B105M035AS</b> |
| <b>1.0</b>                                                       | <b>B</b>     | <b>10</b>                      | <b>T322B105K035AS</b>   | <b>0.5</b>                  | <b>3</b>                                           |                                                   |                                                |
| <b>1.0</b>                                                       | <b>B</b>     | <b>20</b>                      | <b>T322B105M035AS</b>   | <b>0.5</b>                  | <b>3</b>                                           |                                                   |                                                |
| 1.2                                                              | B            | 5                              | T322B125J035AS          | 0.5                         | 3                                                  | <b>CX01M125K</b><br><b>CX01M125M</b>              | <b>T323B125K035AS</b><br><b>T323B125M035AS</b> |
| 1.2                                                              | B            | 10                             | T322B125K035AS          | 0.5                         | 3                                                  |                                                   |                                                |
| 1.2                                                              | B            | 20                             | T322B125M035AS          | 0.5                         | 3                                                  |                                                   |                                                |
| <b>1.5</b>                                                       | <b>B</b>     | <b>5</b>                       | <b>T322B155J035AS</b>   | <b>0.5</b>                  | <b>3</b>                                           | <b>CX05M155K</b><br><b>CX05M155M</b>              | <b>T323B155K035AS</b><br><b>T323B155M035AS</b> |
| <b>1.5</b>                                                       | <b>B</b>     | <b>10</b>                      | <b>T322B155K035AS</b>   | <b>0.5</b>                  | <b>3</b>                                           |                                                   |                                                |
| <b>1.5</b>                                                       | <b>B</b>     | <b>20</b>                      | <b>T322B155M035AS</b>   | <b>0.5</b>                  | <b>3</b>                                           |                                                   |                                                |
| 1.8                                                              | C            | 5,10,20                        | T322C185(1)035AS        | 0.5                         | 3                                                  | <b>CX05M335K</b><br><b>CX05M335M</b>              | <b>T323C335K035AS</b><br><b>T323C335M035AS</b> |
| <b>2.2</b>                                                       | <b>C</b>     | <b>5,10,20</b>                 | <b>T322C225(1)035AS</b> | <b>0.6</b>                  | <b>3</b>                                           |                                                   |                                                |
| 2.7                                                              | C            | 5,10,20                        | T322C275(1)035AS        | 0.8                         | 3                                                  |                                                   |                                                |
| <b>3.3</b>                                                       | <b>C</b>     | <b>5</b>                       | <b>T322C335J035AS</b>   | <b>0.9</b>                  | <b>4</b>                                           |                                                   |                                                |
| <b>3.3</b>                                                       | <b>C</b>     | <b>10</b>                      | <b>T322C335K035AS</b>   | <b>0.9</b>                  | <b>4</b>                                           |                                                   |                                                |
| <b>3.3</b>                                                       | <b>C</b>     | <b>20</b>                      | <b>T322C335M035AS</b>   | <b>0.9</b>                  | <b>4</b>                                           |                                                   |                                                |
| 3.9                                                              | C            | 5                              | T322C395J035AS          | 1.1                         | 4                                                  |                                                   |                                                |
| 3.9                                                              | C            | 10                             | T322C395K035AS          | 1.1                         | 4                                                  |                                                   |                                                |
| 3.9                                                              | C            | 20                             | T322C395M035AS          | 1.1                         | 4                                                  |                                                   |                                                |
| <b>4.7</b>                                                       | <b>C</b>     | <b>5</b>                       | <b>T322C475J035AS</b>   | <b>1.3</b>                  | <b>4</b>                                           |                                                   |                                                |
| <b>4.7</b>                                                       | <b>C</b>     | <b>10</b>                      | <b>T322C475K035AS</b>   | <b>1.3</b>                  | <b>4</b>                                           |                                                   |                                                |
| <b>4.7</b>                                                       | <b>C</b>     | <b>20</b>                      | <b>T322C475M035AS</b>   | <b>1.3</b>                  | <b>4</b>                                           |                                                   |                                                |

(1) To complete KEMET Part Number, insert Capacitance Tolerance Symbol as follows: M — ±20%, K — ±10%, J — ±5%  
Bold Face lines indicate preferred part types and values.



# TANTALUM MOLDED / AXIAL — MIL-PRF-49137/1 & 5

## T322 & T323 (CX01 & CX05) SERIES

### RATINGS & PART NUMBER REFERENCE

| CAPACITANCE<br>µF                                       | CASE<br>SIZE | CAPACITANCE<br>TOLERANCE<br>±% | KEMET T322 SERIES       |                             |                                                    | CX01 & CX05 CAPACITORS<br>PER MIL-PRF-49137/1 & 5 |                       |
|---------------------------------------------------------|--------------|--------------------------------|-------------------------|-----------------------------|----------------------------------------------------|---------------------------------------------------|-----------------------|
|                                                         |              |                                | KEMET<br>PART NUMBER    | D. C.<br>LEAKAGE<br>µA@25°C | MAX.<br>DISSIPATION<br>FACTOR<br>%@25°C,<br>120 HZ | MILITARY<br>PART NUMBER                           | KEMET<br>PART NUMBER  |
| <b>35 VOLT RATING AT 85°C — 23 VOLT RATING AT 125°C</b> |              |                                |                         |                             |                                                    |                                                   |                       |
| 5.6                                                     | D            | 5,10,20                        | T322D565(1)035AS        | 1.6                         | 4                                                  |                                                   |                       |
| <b>6.8</b>                                              | <b>D</b>     | <b>5</b>                       | <b>T322D685J035AS</b>   | <b>1.9</b>                  | <b>4</b>                                           |                                                   |                       |
| <b>6.8</b>                                              | <b>D</b>     | <b>10</b>                      | <b>T322D685K035AS</b>   | <b>1.9</b>                  | <b>4</b>                                           | <b>CX05M685K</b>                                  | <b>T323D685K035AS</b> |
| <b>6.8</b>                                              | <b>D</b>     | <b>20</b>                      | <b>T322D685M035AS</b>   | <b>1.9</b>                  | <b>4</b>                                           | <b>CX05M685M</b>                                  | <b>T323D685M035AS</b> |
| 8.2                                                     | D            | 5,10,20                        | T322D825(1)035AS        | 2.3                         | 4                                                  |                                                   |                       |
| <b>10.0</b>                                             | <b>D</b>     | <b>5</b>                       | <b>T322D106J035AS</b>   | <b>2.8</b>                  | <b>4</b>                                           |                                                   |                       |
| <b>10.0</b>                                             | <b>D</b>     | <b>10</b>                      | <b>T322D106K035AS</b>   | <b>2.8</b>                  | <b>4</b>                                           | <b>CX05M106K</b>                                  | <b>T323D106K035AS</b> |
| <b>10.0</b>                                             | <b>D</b>     | <b>20</b>                      | <b>T322D106M035AS</b>   | <b>2.8</b>                  | <b>4</b>                                           | <b>CX05M106M</b>                                  | <b>T323D106M035AS</b> |
| 12.0                                                    | E            | 5,10,20                        | T322E126(1)035AS        | 3.3                         | 4                                                  |                                                   |                       |
| <b>15.0</b>                                             | <b>E</b>     | <b>5,10,20</b>                 | <b>T322E156(1)035AS</b> | <b>4.2</b>                  | <b>6</b>                                           |                                                   |                       |
| 18.0                                                    | E            | 5,10,20                        | T322E186(1)035AS        | 5.0                         | 6                                                  |                                                   |                       |
| <b>22.0</b>                                             | <b>E</b>     | <b>5,10,20</b>                 | <b>T322E226(1)035AS</b> | <b>6.2</b>                  | <b>6</b>                                           |                                                   |                       |
| 27.0                                                    | E            | 5,10,20                        | T322E276(1)035AS        | 7.5                         | 6                                                  |                                                   |                       |
| <b>33.0</b>                                             | <b>E</b>     | <b>5,10,20</b>                 | <b>T322E336(1)035AS</b> | <b>9.2</b>                  | <b>6</b>                                           |                                                   |                       |
| 39.0                                                    | F            | 5,10,20                        | T322F396(1)035AS        | 10.0                        | 6                                                  |                                                   |                       |
| <b>47.0</b>                                             | <b>F</b>     | <b>5,10,20</b>                 | <b>T322F476(1)035AS</b> | <b>10.0</b>                 | <b>6</b>                                           |                                                   |                       |
| <b>50 VOLT RATING AT 85°C — 33 VOLT RATING AT 125°C</b> |              |                                |                         |                             |                                                    |                                                   |                       |
| <b>0.1</b>                                              | <b>A</b>     | <b>5</b>                       | <b>T322A104J050AS</b>   | <b>0.5</b>                  | <b>3</b>                                           |                                                   |                       |
| <b>0.1</b>                                              | <b>A</b>     | <b>10</b>                      | <b>T322A104K050AS</b>   | <b>0.5</b>                  | <b>3</b>                                           | <b>CX05N104K</b>                                  | <b>T323A104K050AS</b> |
| <b>0.1</b>                                              | <b>A</b>     | <b>20</b>                      | <b>T322A104M050AS</b>   | <b>0.5</b>                  | <b>3</b>                                           | <b>CX05N104M</b>                                  | <b>T323A104M050AS</b> |
| 0.12                                                    | A            | 5,10,20                        | T322A124(1)050AS        | 0.5                         | 3                                                  |                                                   |                       |
| <b>0.15</b>                                             | <b>A</b>     | <b>5</b>                       | <b>T322A154J050AS</b>   | <b>0.5</b>                  | <b>3</b>                                           |                                                   |                       |
| <b>0.15</b>                                             | <b>A</b>     | <b>10</b>                      | <b>T322A154K050AS</b>   | <b>0.5</b>                  | <b>3</b>                                           | <b>CX05N154K</b>                                  | <b>T323A154K050AS</b> |
| <b>0.15</b>                                             | <b>A</b>     | <b>20</b>                      | <b>T322A154M050AS</b>   | <b>0.5</b>                  | <b>3</b>                                           | <b>CX05N154M</b>                                  | <b>T323A154M050AS</b> |
| 0.18                                                    | A            | 5,10,20                        | T322A184(1)050AS        | 0.5                         | 3                                                  |                                                   |                       |
| <b>0.22</b>                                             | <b>A</b>     | <b>5</b>                       | <b>T322A224J050AS</b>   | <b>0.5</b>                  | <b>3</b>                                           |                                                   |                       |
| <b>0.22</b>                                             | <b>A</b>     | <b>10</b>                      | <b>T322A224K050AS</b>   | <b>0.5</b>                  | <b>3</b>                                           | <b>CX05N224K</b>                                  | <b>T323A224K050AS</b> |
| <b>0.22</b>                                             | <b>A</b>     | <b>20</b>                      | <b>T322A224M050AS</b>   | <b>0.5</b>                  | <b>3</b>                                           | <b>CX05N224M</b>                                  | <b>T323A224M050AS</b> |
| 0.27                                                    | A            | 5,10,20                        | T322A274(1)050AS        | 0.5                         | 3                                                  |                                                   |                       |
| <b>0.33</b>                                             | <b>B</b>     | <b>5</b>                       | <b>T322B334J050AS</b>   | <b>0.5</b>                  | <b>3</b>                                           |                                                   |                       |
| <b>0.33</b>                                             | <b>B</b>     | <b>10</b>                      | <b>T322B334K050AS</b>   | <b>0.5</b>                  | <b>3</b>                                           | <b>CX05N334K</b>                                  | <b>T323B334K050AS</b> |
| <b>0.33</b>                                             | <b>B</b>     | <b>20</b>                      | <b>T322B334M050AS</b>   | <b>0.5</b>                  | <b>3</b>                                           | <b>CX05N334M</b>                                  | <b>T323B334M050AS</b> |
| 0.39                                                    | B            | 5                              | T322B394J050AS          | 0.5                         | 3                                                  |                                                   |                       |
| 0.39                                                    | B            | 10                             | T322B394K050AS          | 0.5                         | 3                                                  | CX05N394K                                         | T323B394K050AS        |
| 0.39                                                    | B            | 20                             | T322B394M050AS          | 0.5                         | 3                                                  | CX05N394M                                         | T323B394M050AS        |
| <b>0.47</b>                                             | <b>B</b>     | <b>5</b>                       | <b>T322B474J050AS</b>   | <b>0.5</b>                  | <b>3</b>                                           |                                                   |                       |
| <b>0.47</b>                                             | <b>B</b>     | <b>10</b>                      | <b>T322B474K050AS</b>   | <b>0.5</b>                  | <b>3</b>                                           | <b>CX05N474K</b>                                  | <b>T323B474K050AS</b> |
| <b>0.47</b>                                             | <b>B</b>     | <b>20</b>                      | <b>T322B474M050AS</b>   | <b>0.5</b>                  | <b>3</b>                                           | <b>CX05N474M</b>                                  | <b>T323B474M050AS</b> |
| 0.56                                                    | B            | 5,10,20                        | T322B564(1)050AS        | 0.5                         | 3                                                  |                                                   |                       |
| <b>0.68</b>                                             | <b>B</b>     | <b>5</b>                       | <b>T322B684J050AS</b>   | <b>0.5</b>                  | <b>3</b>                                           |                                                   |                       |
| <b>0.68</b>                                             | <b>B</b>     | <b>10</b>                      | <b>T322B684K050AS</b>   | <b>0.5</b>                  | <b>3</b>                                           | <b>CX05N684K</b>                                  | <b>T323B684K050AS</b> |
| <b>0.68</b>                                             | <b>B</b>     | <b>20</b>                      | <b>T322B684M050AS</b>   | <b>0.5</b>                  | <b>3</b>                                           | <b>CX05N684M</b>                                  | <b>T323B684M050AS</b> |
| 0.82                                                    | B            | 5,10,20                        | T322B824(1)050AS        | 0.5                         | 3                                                  |                                                   |                       |
| <b>1.0</b>                                              | <b>B</b>     | <b>5</b>                       | <b>T322B105J050AS</b>   | <b>0.5</b>                  | <b>3</b>                                           |                                                   |                       |
| <b>1.0</b>                                              | <b>B</b>     | <b>10</b>                      | <b>T322B105K050AS</b>   | <b>0.5</b>                  | <b>3</b>                                           | <b>CX05N105K</b>                                  | <b>T323B105K050AS</b> |
| <b>1.0</b>                                              | <b>B</b>     | <b>20</b>                      | <b>T322B105M050AS</b>   | <b>0.5</b>                  | <b>3</b>                                           | <b>CX05N105M</b>                                  | <b>T323B105M050AS</b> |
| 1.2                                                     | C            | 5,10,20                        | T322C125(1)050AS        | 0.5                         | 3                                                  |                                                   |                       |
| <b>1.5</b>                                              | <b>C</b>     | <b>5</b>                       | <b>T322C155J050AS</b>   | <b>0.6</b>                  | <b>4</b>                                           |                                                   |                       |
| <b>1.5</b>                                              | <b>C</b>     | <b>10</b>                      | <b>T322C155K050AS</b>   | <b>0.6</b>                  | <b>4</b>                                           | <b>CX05N155K</b>                                  | <b>T323C155K050AS</b> |
| <b>1.5</b>                                              | <b>C</b>     | <b>20</b>                      | <b>T322C155M050AS</b>   | <b>0.6</b>                  | <b>4</b>                                           | <b>CX05N155M</b>                                  | <b>T323C155M050AS</b> |
| 1.8                                                     | C            | 5,10,20                        | T322C185(1)050AS        | 0.7                         | 4                                                  |                                                   |                       |
| <b>2.2</b>                                              | <b>C</b>     | <b>5</b>                       | <b>T322C225J050AS</b>   | <b>0.9</b>                  | <b>4</b>                                           |                                                   |                       |
| <b>2.2</b>                                              | <b>C</b>     | <b>10</b>                      | <b>T322C225K050AS</b>   | <b>0.9</b>                  | <b>4</b>                                           | <b>CX05N225K</b>                                  | <b>T323C225K050AS</b> |
| <b>2.2</b>                                              | <b>C</b>     | <b>20</b>                      | <b>T322C225M050AS</b>   | <b>0.9</b>                  | <b>4</b>                                           | <b>CX05N225M</b>                                  | <b>T323C225M050AS</b> |
| 2.7                                                     | D            | 5,10,20                        | T322D275(1)050AS        | 1.1                         | 4                                                  |                                                   |                       |
| <b>3.3</b>                                              | <b>D</b>     | <b>5</b>                       | <b>T322D335J050AS</b>   | <b>1.3</b>                  | <b>4</b>                                           |                                                   |                       |
| <b>3.3</b>                                              | <b>D</b>     | <b>10</b>                      | <b>T322D335K050AS</b>   | <b>1.3</b>                  | <b>4</b>                                           | <b>CX05N335K</b>                                  | <b>T323D335K050AS</b> |
| <b>3.3</b>                                              | <b>D</b>     | <b>20</b>                      | <b>T322D335M050AS</b>   | <b>1.3</b>                  | <b>4</b>                                           | <b>CX05N335M</b>                                  | <b>T323D335M050AS</b> |
| 3.9                                                     | D            | 5,10,20                        | T322D395(1)050AS        | 1.6                         | 4                                                  |                                                   |                       |
| <b>4.7</b>                                              | <b>D</b>     | <b>5</b>                       | <b>T322D475J050AS</b>   | <b>1.9</b>                  | <b>4</b>                                           |                                                   |                       |
| <b>4.7</b>                                              | <b>D</b>     | <b>10</b>                      | <b>T322D475K050AS</b>   | <b>1.9</b>                  | <b>4</b>                                           | <b>CX05N475K</b>                                  | <b>T323D475K050AS</b> |
| <b>4.7</b>                                              | <b>D</b>     | <b>20</b>                      | <b>T322D475M050AS</b>   | <b>1.9</b>                  | <b>4</b>                                           | <b>CX05N475M</b>                                  | <b>T323D475M050AS</b> |
| 5.6                                                     | E            | 5,10,20                        | T322E565(1)050AS        | 2.2                         | 4                                                  |                                                   |                       |
| <b>6.8</b>                                              | <b>E</b>     | <b>5,10,20</b>                 | <b>T322E685(1)050AS</b> | <b>2.7</b>                  | <b>4</b>                                           |                                                   |                       |
| 8.2                                                     | E            | 5,10,20                        | T322E825(1)050AS        | 3.2                         | 4                                                  |                                                   |                       |
| <b>10.0</b>                                             | <b>E</b>     | <b>5,10,20</b>                 | <b>T322E106(1)050AS</b> | <b>4.0</b>                  | <b>6</b>                                           |                                                   |                       |
| 12.0                                                    | F            | 5,10,20                        | T322F126(1)050AS        | 4.8                         | 6                                                  |                                                   |                       |
| <b>15.0</b>                                             | <b>F</b>     | <b>5,10,20</b>                 | <b>T322F156(1)050AS</b> | <b>6.0</b>                  | <b>6</b>                                           |                                                   |                       |
| 18.0                                                    | F            | 5,10,20                        | T322F186(1)050AS        | 7.2                         | 6                                                  |                                                   |                       |
| <b>22.0</b>                                             | <b>F</b>     | <b>5,10,20</b>                 | <b>T322F226(1)050AS</b> | <b>8.8</b>                  | <b>6</b>                                           |                                                   |                       |

(1) To complete KEMET Part Number, insert Capacitance Tolerance Symbol as follows: M — ±20%, K — ±10%, J — ±5%  
**Bold Face** lines indicate preferred part types and values.

**T330 Series**

KEMET T330 Series, polar-type, radial lead rectangular Precision Molded Tantalum (PMT) capacitors are primarily designed for applications that demand full use of the premium space available in printed circuitry and high density packaging. Compact, space saving T330 Series capacitors provide superior packing factor and space utilization compared with tubular units of the same microcoulomb (CV) rating.

T330 Series capacitors employ a rectangular sintered, dry tantalum anode, transfer molded in precision dies with a high impact resistant plastic having excellent electrical, physical, and moisture resistant properties. All cases utilize gold color plastic which permits laser marking with outstanding permanency and legibility. The polarity is indicated by a + sign permanently marked on the case. The radius on the two vertical edges at the positive end of B, C, and D Cases can be used as a sensing dimension for automatic insertion processes.

**T340 Series**

The compact space saving T340 Series is transfer molded in precision dies with a high impact resistant plastic having excellent electrical, physical, and moisture resistant properties. The gold color plastic case utilized permits laser marking with outstanding permanency and legibility.

Marking is provided on the top of the case to allow visual inspection for proper polarity and placement after insertion. In addition, positive polarity identification is achieved by an easily recognized molded radius on the positive end of the case. This physical polarity identification is readily observed after capacitor placement as a further aid to the top marking in prevention of possible reverse insertion.

The location of the standoffs may serve a similar sensing function for the A Case. These standoffs, located in the base of all case sizes, provide vents for air circulation and also allow easy removal of flux residues from leadwire and circuit board solder joints.

T330 Series capacitors are highly reliable and exhibit performance characteristics typical of military test standards. They are available in capacitance values ranging from 0.1 to 220 microfarads in  $\pm 20$ ,  $\pm 10$ ,  $\pm 5\%$  tolerance levels, and in working voltages from 6 to 50 volts. At 85°C the capacitors will operate continuously at full rated voltage. They are rated to 125°C when operated at 2/3 of nameplate voltage. In addition, they feature exceptionally low DC leakage and Dissipation Factor characteristics.

They are ideal for bypass, coupling, and timing applications in computers, military ordinance, industrial, entertainment, and consumer electronic equipment.

Standoffs, located in the base of all case sizes, provide vents for air circulation and also allow easy removal of flux residues from leadwire and circuit board solder joints. With very low impedance and ESR values, the T340 Series features exceptionally low DC leakage and DF characteristics. The T340 Series is available in standard  $\pm 20\%$ ;  $\pm 10\%$ ;  $\pm 5\%$  (special order) capacitance tolerance.

T340 Series capacitors are highly reliable and exhibit performance characteristics typical of military test standards.

**PERFORMANCE CHARACTERISTICS**

- **CAPACITANCE/VOLTAGE RANGE:**  
 T330: 0.1-220 $\mu$ F, 6-50 Volts.  
 T340: 0.1-330 $\mu$ F, 6-50 Volts.
- **CAPACITANCE TOLERANCE:** Available in standard EIA nominal values with  $\pm 20\%$  tolerance standard,  $\pm 10\%$  and  $\pm 5\%$  available on special order.
- **DISSIPATION FACTOR:** Maximum DF limits are shown in corresponding series part number listing. See Application Notes Section, page 78.
- **DC LEAKAGE CURRENT:** Maximum leakage values at 25°C are shown in part number listings, pages 51, 52, 55, 56 and 57. See Application Notes Section, page 76.
- **RATED VOLTAGE; WORKING VOLTAGE; SURGE VOLTAGE; REVERSE VOLTAGE:** See Application Notes Section, pages 76 & 77 for description.
- **IMPEDANCE and ESR:** See Application Notes Section, page 77 & 78 for additional information. Reference ESR values are shown in table below.
- **AC RIPPLE VOLTAGE:** Permissible AC ripple voltage is related to ESR of the capacitor and the power dissipation capabilities of a particular case size. Thermal capacities for the various case sizes have been determined and are listed in Table below. For additional description see page 78.

**T330/T340 ESR (OHMS) at 100 kHz @ +25°C**

(The ESR values provided below are for reference only.  
 No warranty, as stated on page 3 and reincorporated here, is made as to the accuracy of these values for any particular T330/T340 Series product.)

| Cap. $\mu$ F | 6 Volt | 10 Volt | 15 Volt | 20 Volt | 25 Volt | 35 Volt | 50 Volt |
|--------------|--------|---------|---------|---------|---------|---------|---------|
| 0.10         |        |         |         |         |         | 26.0    | 26.0    |
| 0.15         |        |         |         |         |         | 21.0    | 21.0    |
| 0.22         |        |         |         |         |         | 17.0    | 17.0    |
| 0.33         |        |         |         |         |         | 15.0    | 15.0    |
| 0.47         |        |         |         |         |         | 13.0    | 13.0    |
| 0.68         |        |         |         |         |         | 10.0    | 10.0    |
| 1.00         |        |         |         |         |         | 8.0     | 8.0     |
| 1.50         |        |         |         |         | 8.0     | 6.0     | 5.0     |
| 2.20         |        |         |         |         | 6.0     | 5.0     | 3.5     |
| 3.30         |        |         | 6.0     | 5.5     | 5.0     | 4.0     | 3.0     |
| 4.70         |        | 8.0     | 5.0     | 4.5     | 4.0     | 3.0     | 2.5     |
| 6.80         | 8.0    | 6.0     | 4.0     | 3.6     | 3.1     | 2.5     | 2.0     |
| 10.0         | 6.0    | 5.0     | 3.2     | 2.9     | 2.5     | 2.0     | 1.6     |
| 15.0         | 5.0    | 3.7     | 2.5     | 2.3     | 2.0     | 1.6     | 1.2     |
| 22.0         | 3.7    | 2.7     | 2.0     | 1.8     | 1.5     | 1.3     | 1.0     |
| 33.0         | 3.0    | 2.1     | 1.6     | 1.4     | 1.2     | 1.0     |         |
| 47.0         | 2.0    | 1.7     | 1.3     | 1.2     | 1.0     | 0.8     |         |
| 68.0         | 1.8    | 1.3     | 1.0     | 0.9     | 0.8     |         |         |
| 100.0        | 1.6    | 1.0     | 0.8     | 0.6     |         |         |         |
| 150.0        | 0.9    | 0.8     | 0.6     |         |         |         |         |
| 220.0        | 0.9    | 0.6     |         |         |         |         |         |
| 330.0        | 0.7    |         |         |         |         |         |         |

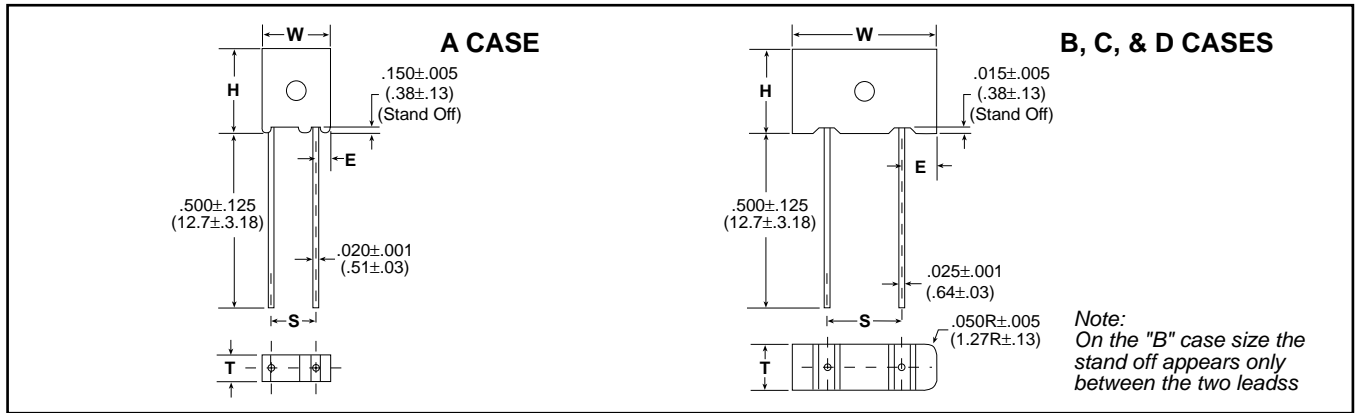
| Series    | Case Size | Watts |
|-----------|-----------|-------|
| T330/T340 | A         | .09   |
|           | B         | .09   |
|           | C         | .100  |
| T330      | D         | .125  |
| T340 only | D/F       | .125  |
|           | E         | .180  |

**Maximum Power Dissipation: 25°C Ambient**

- **ENVIRONMENTAL CONSIDERATIONS:**
  - A. Shock Test: MIL-STD-202, Method 213.
  - B. Thermal Shock, MIL-STD-202, Method 107.
  - C. Moisture Resistance: MIL-STD-202, Method 106.
  - D. Solderability: MIL-STD-202, Method 208.
 For additional Environmental Test Information see pages 80, 81 and 82.
- **LEAD MATERIAL:** Solder coated steel core with copper ply per MIL-STD-1276.
- **LEAD TAPE and REEL:** Reeling per specification RS-468. See pages 71 and 73 for additional information.



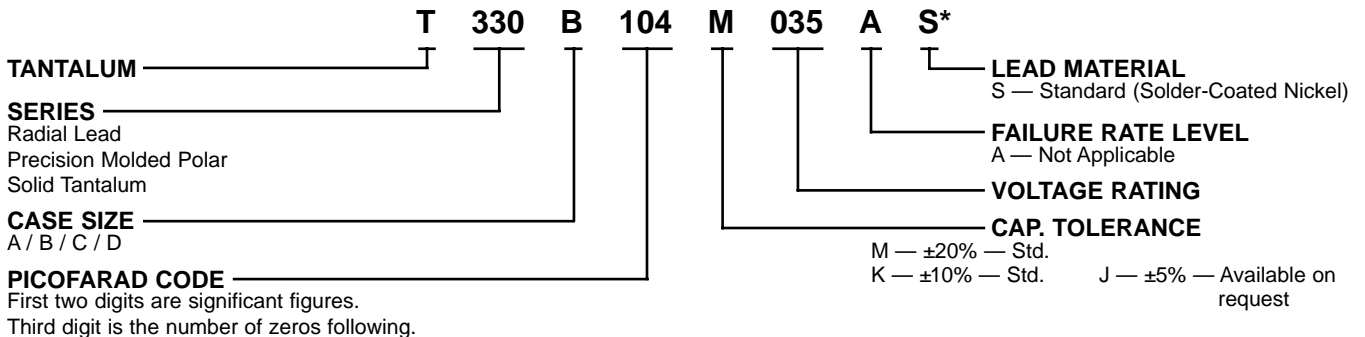
### CAPACITOR OUTLINE DRAWINGS



### DIMENSIONS — INCHES & (MILLIMETERS)

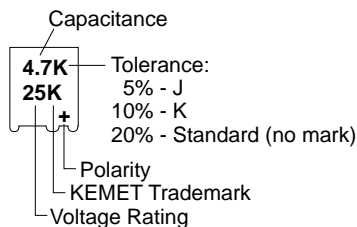
| CASE SIZE | H CASE HEIGHT                | W CASE WIDTH                  | T CASE THICKNESS             | E CASE TO WIRE               | S LEAD SPACING               |
|-----------|------------------------------|-------------------------------|------------------------------|------------------------------|------------------------------|
| A         | .345 ± .008<br>(8.76 ± .203) | .230 ± .005<br>(5.84 ± .127)  | .105 ± .005<br>(2.67 ± .127) | .050 ± .010<br>(1.27 ± .25)  | .125 ± .005<br>(3.18 ± .127) |
| B         | .225 ± .015<br>(5.71 ± 0.38) | .285 ± .015<br>(7.24 ± 0.38)  | .170 ± .015<br>(4.32 ± 0.38) | .042 ± .010<br>(1.07 ± .25)  | .200 ± .005<br>(5.08 ± .127) |
| C         | .325 ± .015<br>(8.26 ± 0.38) | .325 ± .015<br>(8.26 ± 0.38)  | .170 ± .015<br>(4.32 ± 0.38) | .062 ± .010<br>(1.57 ± 0.25) | .200 ± .005<br>(5.08 ± .127) |
| D         | .375 ± .015<br>(9.53 ± 0.38) | .600 ± .015<br>(15.24 ± 0.38) | .195 ± .015<br>(4.95 ± 0.38) | .200 ± .010<br>(5.08 ± 0.25) | .200 ± .005<br>(5.08 ± .127) |

### ORDERING INFORMATION



**\*Part Number Example: T330B104M035AS (14 digits – no spaces)**

### MARKING INFORMATION



RATINGS & PART NUMBER REFERENCE

A CASE

| CAPACITANCE<br>μF                                       | CASE<br>SIZE | KEMET PART NUMBER       | D.C.<br>LEAKAGE<br>μA@25°C | MAX.<br>DISSIPATION<br>FACTOR<br>%@25°C,<br>120Hz |
|---------------------------------------------------------|--------------|-------------------------|----------------------------|---------------------------------------------------|
| <b>6 VOLT RATING AT 85°C — 4 VOLT RATING AT 125°C</b>   |              |                         |                            |                                                   |
| 18.0                                                    | A            | T330A186(1)006AS        | 1                          | 6                                                 |
| <b>22.0</b>                                             | <b>A</b>     | <b>T330A226(1)006AS</b> | <b>1</b>                   | <b>6</b>                                          |
| <b>10 VOLT RATING AT 85°C — 7 VOLT RATING AT 125°C</b>  |              |                         |                            |                                                   |
| <b>10.0</b>                                             | <b>A</b>     | <b>T330A106(1)010AS</b> | <b>1</b>                   | <b>6</b>                                          |
| 12.0                                                    | A            | T330A126(1)010AS        | 1                          | 6                                                 |
| 15.0                                                    | A            | T330A156(1)010AS        | 1                          | 6                                                 |
| <b>15 VOLT RATING AT 85°C — 10 VOLT RATING AT 125°C</b> |              |                         |                            |                                                   |
| 8.2                                                     | A            | T330A825(1)015AS        | 1                          | 6                                                 |
| <b>20 VOLT RATING AT 85°C — 13 VOLT RATING AT 125°C</b> |              |                         |                            |                                                   |
| 5.6                                                     | A            | T330A565(1)020AS        | 1                          | 6                                                 |
| <b>6.8</b>                                              | <b>A</b>     | <b>T330A685(1)020AS</b> | <b>1</b>                   | <b>6</b>                                          |
| <b>25 VOLT RATING AT 85°C — 17 VOLT RATING AT 125°C</b> |              |                         |                            |                                                   |
| 3.3                                                     | A            | T330A335(1)025AS        | 1                          | 4                                                 |
| 3.9                                                     | A            | T330A395(1)025AS        | 1                          | 4                                                 |
| <b>4.7</b>                                              | <b>A</b>     | <b>T330A475(1)025AS</b> | <b>1</b>                   | <b>4</b>                                          |
| <b>35 VOLT RATING AT 85°C — 23 VOLT RATING AT 125°C</b> |              |                         |                            |                                                   |
| 0.10                                                    | A            | T330A104(1)035AS        | 1                          | 3                                                 |
| 0.12                                                    | A            | T330A124(1)035AS        | 1                          | 3                                                 |
| 0.15                                                    | A            | T330A154(1)035AS        | 1                          | 3                                                 |
| 0.18                                                    | A            | T330A184(1)035AS        | 1                          | 3                                                 |
| 0.22                                                    | A            | T330A224(1)035AS        | 1                          | 3                                                 |
| 0.27                                                    | A            | T330A274(1)035AS        | 1                          | 3                                                 |
| 0.33                                                    | A            | T330A334(1)035AS        | 1                          | 3                                                 |

| CAPACITANCE<br>μF                                       | CASE<br>SIZE | KEMET PART NUMBER       | D.C.<br>LEAKAGE<br>μA@25°C | MAX.<br>DISSIPATION<br>FACTOR<br>%@25°C,<br>120Hz |
|---------------------------------------------------------|--------------|-------------------------|----------------------------|---------------------------------------------------|
| <b>35 VOLT RATING AT 85°C — 23 VOLT RATING AT 125°C</b> |              |                         |                            |                                                   |
| 0.39                                                    | A            | T330A394(1)035AS        | 1                          | 3                                                 |
| 0.47                                                    | A            | T330A474(1)035AS        | 1                          | 3                                                 |
| 0.56                                                    | A            | T330A564(1)035AS        | 1                          | 3                                                 |
| 0.68                                                    | A            | T330A684(1)035AS        | 1                          | 3                                                 |
| 0.82                                                    | A            | T330A824(1)035AS        | 1                          | 3                                                 |
| <b>1.0</b>                                              | <b>A</b>     | <b>T330A105(1)035AS</b> | <b>1</b>                   | <b>3</b>                                          |
| 1.2                                                     | A            | T330A125(1)035AS        | 1                          | 4                                                 |
| 1.5                                                     | A            | T330A155(1)035AS        | 1                          | 4                                                 |
| 1.8                                                     | A            | T330A185(1)035AS        | 1                          | 4                                                 |
| 2.2                                                     | A            | T330A225(1)035AS        | 1                          | 4                                                 |
| <b>2.7</b>                                              | <b>A</b>     | <b>T330A275(1)035AS</b> | <b>1</b>                   | <b>4</b>                                          |
| <b>50 VOLT RATING AT 85°C — 33 VOLT RATING AT 125°C</b> |              |                         |                            |                                                   |
| 0.10                                                    | A            | T330A104(1)050AS        | 1                          | 3                                                 |
| 0.12                                                    | A            | T330A124(1)050AS        | 1                          | 3                                                 |
| 0.15                                                    | A            | T330A154(1)050AS        | 1                          | 3                                                 |
| 0.18                                                    | A            | T330A184(1)050AS        | 1                          | 3                                                 |
| 0.22                                                    | A            | T330A224(1)050AS        | 1                          | 3                                                 |
| 0.27                                                    | A            | T330A274(1)050AS        | 1                          | 3                                                 |
| 0.33                                                    | A            | T330A334(1)050AS        | 1                          | 3                                                 |
| 0.39                                                    | A            | T330A394(1)050AS        | 1                          | 3                                                 |
| 0.47                                                    | A            | T330A474(1)050AS        | 1                          | 3                                                 |
| 0.56                                                    | A            | T330A564(1)050AS        | 1                          | 3                                                 |
| 0.68                                                    | A            | T330A684(1)050AS        | 1                          | 3                                                 |
| 0.82                                                    | A            | T330A824(1)050AS        | 1                          | 4                                                 |
| 1.0                                                     | A            | T330A105(1)050AS        | 1                          | 4                                                 |
| 1.2                                                     | A            | T330A125(1)050AS        | 1                          | 4                                                 |
| 1.5                                                     | A            | T330A155(1)050AS        | 1                          | 4                                                 |

B, C & D CASES

| CAPACITANCE<br>μF                                      | CASE<br>SIZE | KEMET PART NUMBER | D.C.<br>LEAKAGE<br>μA@25°C | MAX.<br>DISSIPATION<br>FACTOR<br>%@25°C,<br>120Hz |
|--------------------------------------------------------|--------------|-------------------|----------------------------|---------------------------------------------------|
| <b>6 VOLT RATING AT 85°C — 4 VOLT RATING AT 125°C</b>  |              |                   |                            |                                                   |
| 10.0                                                   | B            | T330B106(1)006AS  | 1                          | 6                                                 |
| 12.0                                                   | B            | T330B126(1)006AS  | 1                          | 6                                                 |
| 15.0                                                   | B            | T330B156(1)006AS  | 1                          | 6                                                 |
| 18.0                                                   | B            | T330B186(1)006AS  | 1                          | 6                                                 |
| 22.0                                                   | B            | T330B226(1)006AS  | 1                          | 6                                                 |
| 27.0                                                   | C            | T330C276(1)006AS  | 1                          | 6                                                 |
| 33.0                                                   | C            | T330C336(1)006AS  | 1                          | 6                                                 |
| 39.0                                                   | C            | T330C396(1)006AS  | 1                          | 6                                                 |
| 47.0                                                   | C            | T330C476(1)006AS  | 2                          | 6                                                 |
| 56.0                                                   | C            | T330C566(1)006AS  | 5                          | 6                                                 |
| 68.0                                                   | C            | T330C686(1)006AS  | 5                          | 6                                                 |
| 82.0                                                   | D            | T330D826(1)006AS  | 5                          | 6                                                 |
| 100.0                                                  | D            | T330D107(1)006AS  | 5                          | 6                                                 |
| 120.0                                                  | D            | T330D127(1)006AS  | 5                          | 6                                                 |
| 150.0                                                  | D            | T330D157(1)006AS  | 5                          | 6                                                 |
| 180.0                                                  | D            | T330D187(1)006AS  | 10                         | 6                                                 |
| 220.0                                                  | D            | T330D227(1)006AS  | 10                         | 8                                                 |
| <b>10 VOLT RATING AT 85°C — 7 VOLT RATING AT 125°C</b> |              |                   |                            |                                                   |
| 5.6                                                    | B            | T330B565(1)010AS  | 1                          | 6                                                 |
| 6.8                                                    | B            | T330B685(1)010AS  | 1                          | 6                                                 |
| 8.2                                                    | B            | T330B825(1)010AS  | 1                          | 6                                                 |
| 10.0                                                   | B            | T330B106(1)010AS  | 1                          | 6                                                 |
| 12.0                                                   | B            | T330B126(1)010AS  | 1                          | 6                                                 |
| 15.0                                                   | B            | T330B156(1)010AS  | 1                          | 6                                                 |
| 18.0                                                   | C            | T330C186(1)010AS  | 1                          | 6                                                 |
| 22.0                                                   | C            | T330C226(1)010AS  | 2                          | 6                                                 |
| 27.0                                                   | C            | T330C276(1)010AS  | 2                          | 6                                                 |

| CAPACITANCE<br>μF                                       | CASE<br>SIZE | KEMET PART NUMBER | D.C.<br>LEAKAGE<br>μA@25°C | MAX.<br>DISSIPATION<br>FACTOR<br>%@25°C,<br>120Hz |
|---------------------------------------------------------|--------------|-------------------|----------------------------|---------------------------------------------------|
| <b>10 VOLT RATING AT 85°C — 7 VOLT RATING AT 125°C</b>  |              |                   |                            |                                                   |
| 33.0                                                    | C            | T330C336(1)010AS  | 2                          | 6                                                 |
| 39.0                                                    | C            | T330C396(1)010AS  | 5                          | 6                                                 |
| 47.0                                                    | D            | T330D476(1)010AS  | 5                          | 6                                                 |
| 56.0                                                    | D            | T330D566(1)010AS  | 5                          | 6                                                 |
| 68.0                                                    | D            | T330D686(1)010AS  | 5                          | 6                                                 |
| 82.0                                                    | D            | T330D826(1)010AS  | 5                          | 6                                                 |
| 100.0                                                   | D            | T330D107(1)010AS  | 10                         | 6                                                 |
| 120.0                                                   | D            | T330D127(1)010AS  | 10                         | 6                                                 |
| 150.0                                                   | D            | T330D157(1)010AS  | 10                         | 6                                                 |
| <b>15 VOLT RATING AT 85°C — 10 VOLT RATING AT 125°C</b> |              |                   |                            |                                                   |
| 3.9                                                     | B            | T330B395(1)015AS  | 1                          | 6                                                 |
| 4.7                                                     | B            | T330B475(1)015AS  | 1                          | 6                                                 |
| 5.6                                                     | B            | T330B565(1)015AS  | 1                          | 6                                                 |
| 6.8                                                     | B            | T330B685(1)015AS  | 1                          | 6                                                 |
| 8.2                                                     | B            | T330B825(1)015AS  | 1                          | 6                                                 |
| 10.0                                                    | C            | T330C106(1)015AS  | 1                          | 6                                                 |
| 12.0                                                    | C            | T330C126(1)015AS  | 1                          | 6                                                 |
| 15.0                                                    | C            | T330C156(1)015AS  | 2                          | 6                                                 |
| 18.0                                                    | C            | T330C186(1)015AS  | 5                          | 6                                                 |
| 22.0                                                    | C            | T330C226(1)015AS  | 5                          | 6                                                 |
| 27.0                                                    | C            | T330C276(1)015AS  | 5                          | 6                                                 |
| 33.0                                                    | C            | T330C336(1)015AS  | 5                          | 6                                                 |
| 39.0                                                    | D            | T330D396(1)015AS  | 10                         | 6                                                 |
| 47.0                                                    | D            | T330D476(1)015AS  | 10                         | 6                                                 |
| 56.0                                                    | D            | T330D566(1)015AS  | 10                         | 6                                                 |
| 68.0                                                    | D            | T330D686(1)015AS  | 10                         | 6                                                 |
| 82.0                                                    | D            | T330D826(1)015AS  | 10                         | 6                                                 |

(1) To complete Part Number insert Capacitance Tolerance Symbol in the 9th character, M — ±20%, K — ±10%, J — ±5%.

**Bold face** lines indicate popular part types and values.

Higher voltage and better capacitance tolerance product may be substituted for an order within the same case size at KEMET'S option.

### B, C & D CASES (Cont'd)

| CAPACITANCE<br>μF                                       | CASE<br>SIZE | KEMET PART NUMBER       | D.C.<br>LEAKAGE<br>μA@25°C | MAX.<br>DISSIPATION<br>FACTOR<br>%@25°C,<br>120Hz |
|---------------------------------------------------------|--------------|-------------------------|----------------------------|---------------------------------------------------|
| <b>25 VOLT RATING AT 85°C — 17 VOLT RATING AT 125°C</b> |              |                         |                            |                                                   |
| 2.7                                                     | B            | T330B275(1)025AS        | 1                          | 6                                                 |
| 3.3                                                     | B            | T330B335(1)025AS        | 1                          | 6                                                 |
| 3.9                                                     | B            | T330B395(1)025AS        | 1                          | 6                                                 |
| 4.7                                                     | B            | T330B475(1)025AS        | 1                          | 6                                                 |
| 5.6                                                     | C            | T330C565(1)025AS        | 1                          | 6                                                 |
| 6.8                                                     | C            | T330C685(1)025AS        | 1                          | 6                                                 |
| 8.2                                                     | C            | T330C825(1)025AS        | 1                          | 6                                                 |
| 10.0                                                    | C            | T330C106(1)025AS        | 1                          | 6                                                 |
| 12.0                                                    | C            | T330C126(1)025AS        | 1                          | 6                                                 |
| 15.0                                                    | C            | T330C156(1)025AS        | 2                          | 6                                                 |
| 18.0                                                    | D            | T330D186(1)025AS        | 5                          | 6                                                 |
| 22.0                                                    | D            | T330D226(1)025AS        | 5                          | 6                                                 |
| 27.0                                                    | D            | T330D276(1)025AS        | 5                          | 6                                                 |
| 33.0                                                    | D            | T330D336(1)025AS        | 5                          | 6                                                 |
| 39.0                                                    | D            | T330D396(1)025AS        | 10                         | 6                                                 |
| <b>47.0</b>                                             | <b>D</b>     | <b>T330D476(1)025AS</b> | <b>10</b>                  | <b>6</b>                                          |
| <b>35 VOLT RATING AT 85°C—23 VOLT RATING AT 125°C</b>   |              |                         |                            |                                                   |
| 0.10                                                    | B            | T330B104(1)035AS        | 1                          | 6                                                 |
| 0.12                                                    | B            | T330B124(1)035AS        | 1                          | 6                                                 |
| 0.15                                                    | B            | T330B154(1)035AS        | 1                          | 6                                                 |
| 0.18                                                    | B            | T330B184(1)035AS        | 1                          | 6                                                 |
| 0.22                                                    | B            | T330B224(1)035AS        | 1                          | 6                                                 |
| 0.27                                                    | B            | T330B274(1)035AS        | 1                          | 6                                                 |
| 0.33                                                    | B            | T330B334(1)035AS        | 1                          | 6                                                 |
| 0.39                                                    | B            | T330B394(1)035AS        | 1                          | 6                                                 |
| 0.47                                                    | B            | T330B474(1)035AS        | 1                          | 6                                                 |
| 0.56                                                    | B            | T330B564(1)035AS        | 1                          | 6                                                 |
| 0.68                                                    | B            | T330B684(1)035AS        | 1                          | 6                                                 |
| 0.82                                                    | B            | T330B824(1)035AS        | 1                          | 6                                                 |
| 1.0                                                     | B            | T330B105(1)035AS        | 1                          | 6                                                 |
| 1.2                                                     | B            | T330B125(1)035AS        | 1                          | 6                                                 |
| 1.5                                                     | B            | T330B155(1)035AS        | 1                          | 6                                                 |
| 1.8                                                     | B            | T330B185(1)035AS        | 1                          | 6                                                 |
| 2.2                                                     | B            | T330B225(1)035AS        | 1                          | 6                                                 |
| 2.7                                                     | B            | T330B275(1)035AS        | 1                          | 6                                                 |
| 3.3                                                     | B            | T330B335(1)035AS        | 1                          | 6                                                 |
| 3.9                                                     | C            | T330C395(1)035AS        | 1                          | 6                                                 |
| 4.7                                                     | C            | T330C475(1)035AS        | 1                          | 6                                                 |
| 5.6                                                     | C            | T330C565(1)035AS        | 1                          | 6                                                 |

| CAPACITANCE<br>μF                                       | CASE<br>SIZE | KEMET PART NUMBER       | D.C.<br>LEAKAGE<br>μA@25°C | MAX.<br>DISSIPATION<br>FACTOR<br>%@25°C,<br>120Hz |
|---------------------------------------------------------|--------------|-------------------------|----------------------------|---------------------------------------------------|
| <b>35 VOLT RATING AT 85°C — 23 VOLT RATING AT 125°C</b> |              |                         |                            |                                                   |
| 6.8                                                     | C            | T330C685(1)035AS        | 2                          | 6                                                 |
| 8.2                                                     | C            | T330C825(1)035AS        | 5                          | 6                                                 |
| <b>10.0</b>                                             | <b>C</b>     | <b>T330C106(1)035AS</b> | <b>5</b>                   | <b>6</b>                                          |
| 12.0                                                    | D            | T330D126(1)035AS        | 5                          | 6                                                 |
| 15.0                                                    | D            | T330D156(1)035AS        | 5                          | 6                                                 |
| 18.0                                                    | D            | T330D186(1)035AS        | 10                         | 6                                                 |
| 22.0                                                    | D            | T330D226(1)035AS        | 10                         | 6                                                 |
| 27.0                                                    | D            | T330D276(1)035AS        | 10                         | 6                                                 |
| 33.0                                                    | D            | T330D336(1)035AS        | 10                         | 6                                                 |
| <b>50 VOLT RATING AT 85°C—33 VOLT RATING AT 125°C</b>   |              |                         |                            |                                                   |
| 0.10                                                    | B            | T330B104(1)050AS        | 1                          | 6                                                 |
| 0.12                                                    | B            | T330B124(1)050AS        | 1                          | 6                                                 |
| 0.15                                                    | B            | T330B154(1)050AS        | 1                          | 6                                                 |
| 0.18                                                    | B            | T330B184(1)050AS        | 1                          | 6                                                 |
| 0.22                                                    | B            | T330B224(1)050AS        | 1                          | 6                                                 |
| 0.27                                                    | B            | T330B274(1)050AS        | 1                          | 6                                                 |
| 0.33                                                    | B            | T330B334(1)050AS        | 1                          | 6                                                 |
| 0.39                                                    | B            | T330B394(1)050AS        | 1                          | 6                                                 |
| 0.47                                                    | B            | T330B474(1)050AS        | 1                          | 6                                                 |
| 0.56                                                    | B            | T330B564(1)050AS        | 1                          | 6                                                 |
| 0.68                                                    | B            | T330B684(1)050AS        | 1                          | 6                                                 |
| 0.82                                                    | B            | T330B824(1)050AS        | 1                          | 6                                                 |
| 1.0                                                     | B            | T330B105(1)050AS        | 1                          | 6                                                 |
| 1.2                                                     | B            | T330B125(1)050AS        | 1                          | 6                                                 |
| 1.5                                                     | B            | T330B155(1)050AS        | 1                          | 6                                                 |
| 1.8                                                     | B            | T330B185(1)050AS        | 1                          | 6                                                 |
| 2.2                                                     | B            | T330B225(1)050AS        | 1                          | 6                                                 |
| 2.7                                                     | C            | T330C275(1)050AS        | 1                          | 6                                                 |
| 3.3                                                     | C            | T330C335(1)050AS        | 2                          | 6                                                 |
| 3.9                                                     | C            | T330C395(1)050AS        | 5                          | 6                                                 |
| 4.7                                                     | C            | T330C475(1)050AS        | 5                          | 6                                                 |
| 5.6                                                     | C            | T330C565(1)050AS        | 5                          | 6                                                 |
| 6.8                                                     | D            | T330D685(1)050AS        | 5                          | 6                                                 |
| 8.2                                                     | D            | T330D825(1)050AS        | 5                          | 6                                                 |
| 10.0                                                    | D            | T330D106(1)050AS        | 5                          | 6                                                 |
| 12.0                                                    | D            | T330D126(1)050AS        | 5                          | 6                                                 |
| 15.0                                                    | D            | T330D156(1)050AS        | 10                         | 6                                                 |
| 18.0                                                    | D            | T330D186(1)050AS        | 10                         | 6                                                 |

(1) To complete Part Number insert Capacitance Tolerance Symbol in the 9th character, M — ±20%, K — ±10%, J — ±5%.

**Bold face** lines indicate popular part types and values.

Higher voltage and better capacitance tolerance product may be substituted for an order within the same case size at KEMET'S option.

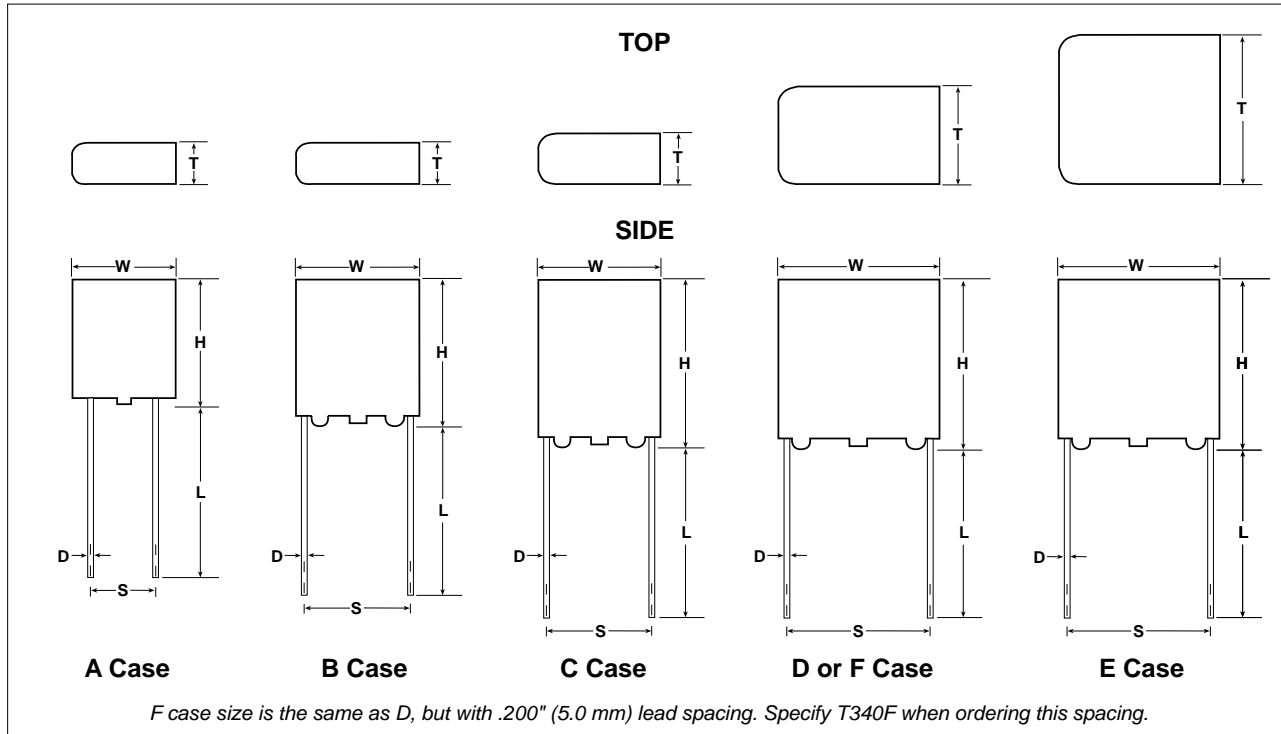
# TANTALUM MOLDED / RADIAL

## T340 SERIES - PRECISION MOLDED - RADIAL LEADS



Effective September 30, 2005, the KEMET T340 Series is RoHS compliant.

### CAPACITOR OUTLINE DRAWINGS



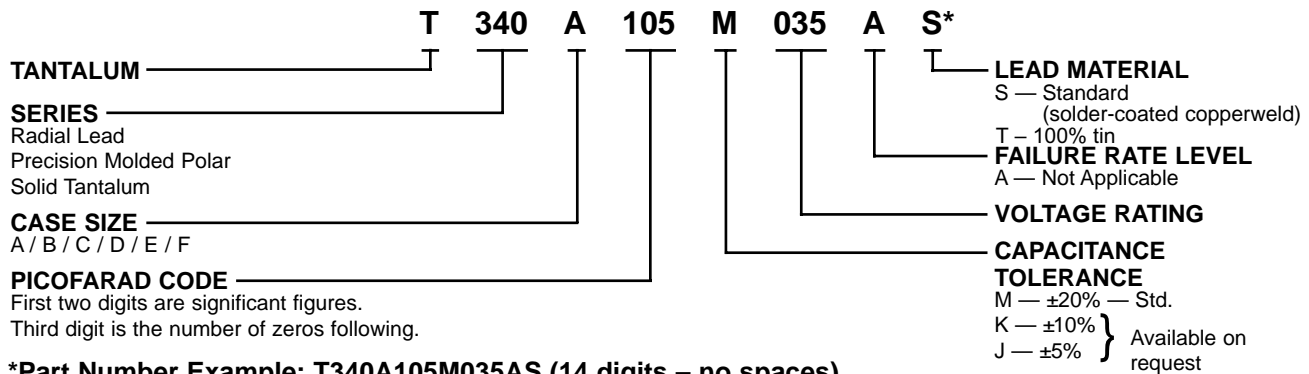
T340 Series Tantalum Molded / Radial

### DIMENSIONS — INCHES & MILLIMETERS

| CASE SIZE | H** (MAX) |      | W (MAX) |      | T (MAX) |      | LEAD SPACING S |      | LEAD LENGTH L |      | LEAD DIAMETER D |      |
|-----------|-----------|------|---------|------|---------|------|----------------|------|---------------|------|-----------------|------|
|           | H         |      | W       |      | T       |      | Inches         | mm   | Inches        | mm   | Inches          | mm   |
|           | Inches    | mm   | Inches  | mm   | inches  | mm   | ±.020          | ±.5  | ±.078         | ±2.0 | ±.001           | ±.03 |
| A         | .287      | 7.3  | .185    | 4.7  | .165    | 4.2  | .100           | 2.5  | .600          | 15.0 | .020            | 0.50 |
| B         | .327      | 8.3  | .283    | 7.2  | .157    | 4.0  | .200           | 5.0  | .600          | 15.0 | .020            | 0.50 |
| C         | .413      | 10.5 | .287    | 7.3  | .169    | 4.3  | .200           | 5.0  | .600          | 15.0 | .020            | 0.50 |
| D         | .413      | 10.5 | .484    | 12.3 | .287    | 7.3  | .400           | 10.0 | .600          | 15.0 | .025            | 0.64 |
| E         | .413      | 10.5 | .484    | 12.3 | .484    | 12.3 | .400           | 10.0 | .600          | 15.0 | .025            | 0.64 |
| F         | .413      | 10.5 | .484    | 12.3 | .287    | 7.3  | .200           | 5.0  | .600          | 15.0 | .025            | 0.64 |

\*\*Includes Standoff Height of .015 ± .005" (.38 ± .13 mm) for All Case Sizes.

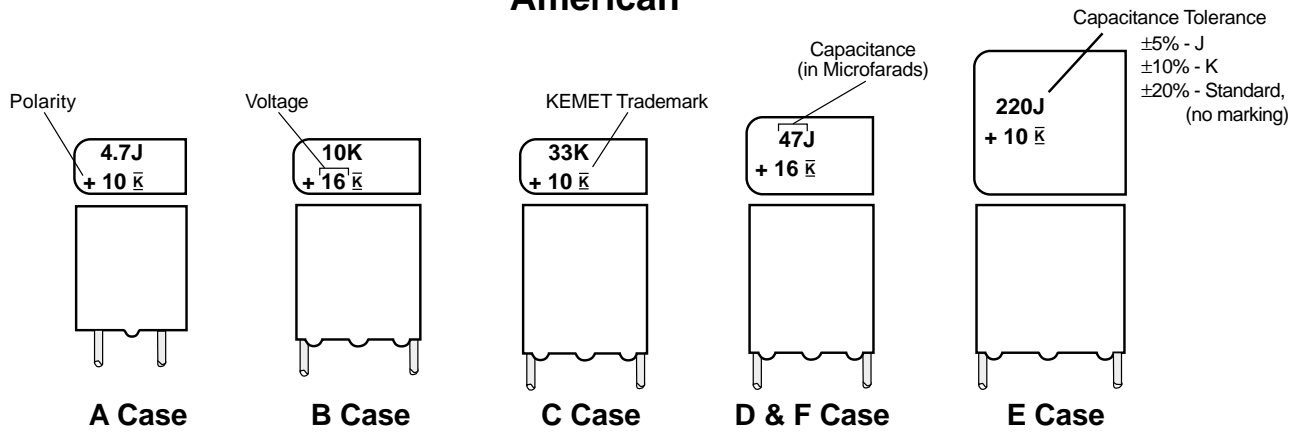
### ORDERING INFORMATION



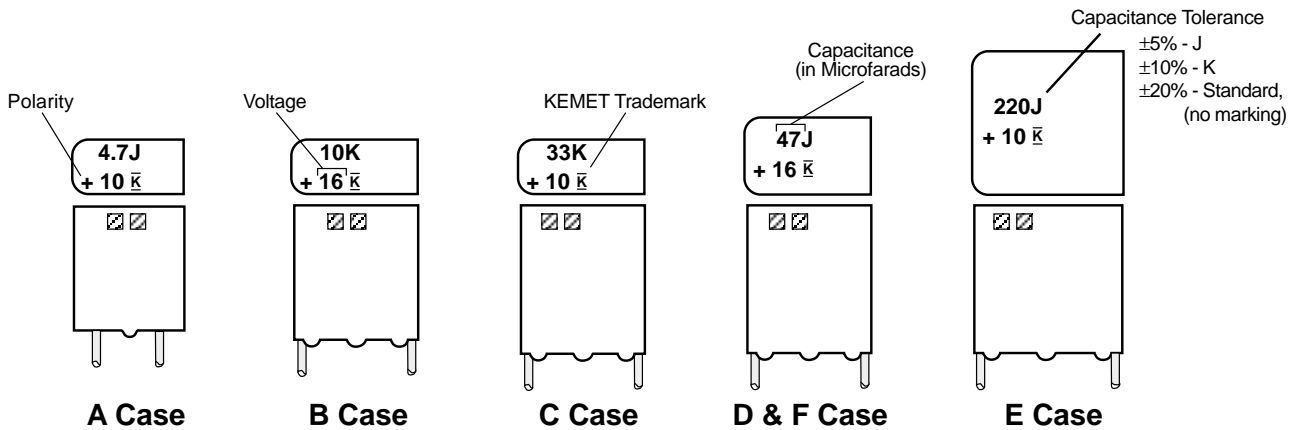
\*Part Number Example: T340A105M035AS (14 digits – no spaces)

### MARKING INFORMATION

#### American



#### European



□ □ = DIN. Specification Date Code

Insert Date Code as follows:

- |                               |                                |
|-------------------------------|--------------------------------|
| □ 1st digit - represents year | □ 2nd digit - represents month |
| L - 2000                      | Q - 2005                       |
| M - 2001                      | R - 2006                       |
| N - 2002                      | S - 2007                       |
| O - 2003                      | T - 2008                       |
| P - 2004                      | U - 2009                       |
|                               | 1 - 9 for January - September  |
|                               | O for October                  |
|                               | N for November                 |
|                               | D for December                 |

RATINGS & PART NUMBER REFERENCE

| CAPACITANCE<br>μF                                   | CASE<br>SIZE | KEMET<br>PART NUMBER      | MAX.<br>DC<br>LEAKAGE<br>μA@25°C | MAX.<br>DISSIPATION<br>FACTOR<br>%@25°C,<br>120 HZ | MAX.<br>IMPEDANCE<br>Ω@<br>10 kHz |
|-----------------------------------------------------|--------------|---------------------------|----------------------------------|----------------------------------------------------|-----------------------------------|
| <b>3 VOLT RATING AT 85°C — 2 VOLT AT 125°C</b>      |              |                           |                                  |                                                    |                                   |
| 10.0                                                | A            | T340A106(1)003AS          | 1.0                              | 6                                                  | 6.0                               |
| 15.0                                                | A            | T340A156(1)003AS          | 1.0                              | 6                                                  | 3.2                               |
| 33.0                                                | B            | T340B336(1)003AS          | 1.5                              | 6                                                  | 2.1                               |
| 47.0                                                | B            | T340B476(1)003AS          | 3.0                              | 6                                                  | 1.8                               |
| 68.0                                                | C            | T340C686(1)003AS          | 4.0                              | 6                                                  | 1.5                               |
| 100.0                                               | C            | T340C107(1)003AS          | 5.0                              | 6                                                  | 1.2                               |
| <b>6/6.3 VOLT RATING AT 85°C — 4 VOLT AT 125°C</b>  |              |                           |                                  |                                                    |                                   |
| 6.8                                                 | A            | T340A685(1)006AS          | 1.0                              | 6                                                  | 6.0                               |
| 10.0                                                | B            | T340B106(1)006AS          | 1.0                              | 6                                                  |                                   |
| 12.0                                                | B            | T340B126(1)006AS          | 1.0                              | 6                                                  |                                   |
| 15.0                                                | B            | T340B156(1)006AS          | 1.0                              | 6                                                  |                                   |
| 18.0                                                | B            | T340B186(1)006AS          | 1.0                              | 6                                                  |                                   |
| 22.0                                                | B            | T340B226(1)006AS          | 2.5                              | 6                                                  | 2.1                               |
| 27.0                                                | C            | T340C276(1)006AS          | 2.5                              | 6                                                  |                                   |
| 33.0                                                | C            | T340C336(1)006AS          | 2.5                              | 6                                                  |                                   |
| 39.0                                                | C            | T340C396(1)006AS          | 2.5                              | 6                                                  |                                   |
| <b>47.0</b>                                         | <b>C</b>     | <b>T340C476(1)006AS</b>   | <b>3.0</b>                       | <b>6</b>                                           | <b>1.5</b>                        |
| 56.0                                                | C            | T340C566(1)006AS          | 5.0                              | 6                                                  |                                   |
| 68.0                                                | C            | T340C686(1)006AS          | 5.0                              | 6                                                  |                                   |
| 82.0                                                | D/F          | T340(2)826(1)006AS        | 5.0                              | 6                                                  |                                   |
| 100.0                                               | D/F          | T340(2)107(1)006AS        | 5.0                              | 6                                                  |                                   |
| 120.0                                               | D/F          | T340(2)127(1)006AS        | 5.0                              | 6                                                  |                                   |
| 150.0                                               | D/F          | T340(2)157(1)006AS        | 8.0                              | 6                                                  | 0.8                               |
| 180.0                                               | D/F          | T340(2)187(1)006AS        | 10.0                             | 6                                                  |                                   |
| 220.0                                               | D/F          | T340(2)227(1)006AS        | 10.0                             | 6                                                  |                                   |
| 330.0                                               | E            | T340E337(1)006AS          | 10.0                             | 8                                                  | 0.5                               |
| <b>10 VOLT RATING AT 85°C — 6 VOLT AT 125°C</b>     |              |                           |                                  |                                                    |                                   |
| <b>4.7</b>                                          | <b>A</b>     | <b>T340A475(1)010AS</b>   | <b>1.0</b>                       | <b>6</b>                                           | <b>7.5</b>                        |
| 5.6                                                 | B            | T340B565(1)010AS          | 1.0                              | 6                                                  |                                   |
| 6.8                                                 | B            | T340B685(1)010AS          | 1.0                              | 6                                                  |                                   |
| 8.2                                                 | B            | T340B825(1)010AS          | 1.0                              | 6                                                  |                                   |
| 10.0                                                | B            | T340B106(1)010AS          | 1.0                              | 6                                                  |                                   |
| 12.0                                                | B            | T340B126(1)010AS          | 1.0                              | 6                                                  |                                   |
| 15.0                                                | B            | T340B156(1)010AS          | 3.0                              | 6                                                  | 2.5                               |
| 18.0                                                | C            | T340C186(1)010AS          | 3.0                              | 6                                                  |                                   |
| 22.0                                                | C            | T340C226(1)010AS          | 3.0                              | 6                                                  |                                   |
| 27.0                                                | C            | T340C276(1)010AS          | 3.0                              | 6                                                  |                                   |
| <b>33.0</b>                                         | <b>C</b>     | <b>T340C336(1)010AS</b>   | <b>5.0</b>                       | <b>6</b>                                           | <b>1.7</b>                        |
| 39.0                                                | C            | T340C396(1)010AS          | 5.0                              | 6                                                  |                                   |
| 47.0                                                | D/F          | T340(2)476(1)010AS        | 5.0                              | 6                                                  |                                   |
| 56.0                                                | D/F          | T340(2)566(1)010AS        | 5.0                              | 6                                                  |                                   |
| 68.0                                                | D/F          | T340(2)686(1)010AS        | 5.0                              | 6                                                  |                                   |
| 82.0                                                | D/F          | T340(2)826(1)010AS        | 8.0                              | 6                                                  |                                   |
| <b>100.0</b>                                        | <b>D/F</b>   | <b>T340(2)107(1)010AS</b> | <b>10.0</b>                      | <b>6</b>                                           | <b>1.0</b>                        |
| 120.0                                               | D/F          | T340(2)127(1)010AS        | 10.0                             | 6                                                  |                                   |
| 150.0                                               | D/F          | T340(2)157(1)010AS        | 10.0                             | 6                                                  |                                   |
| 220.0                                               | E            | T340E227(1)010AS          | 10.0                             | 6                                                  | 0.5                               |
| <b>15/16 VOLT RATING AT 85°C — 10 VOLT AT 125°C</b> |              |                           |                                  |                                                    |                                   |
| <b>3.3</b>                                          | <b>A</b>     | <b>T340A335(1)015AS</b>   | <b>1.0</b>                       | <b>6</b>                                           | <b>9.0</b>                        |
| 3.9                                                 | B            | T340B395(1)015AS          | 1.0                              | 6                                                  |                                   |
| 4.7                                                 | B            | T340B475(1)015AS          | 1.0                              | 6                                                  |                                   |
| 5.6                                                 | B            | T340B565(1)015AS          | 1.0                              | 6                                                  |                                   |
| 6.8                                                 | B            | T340B685(1)015AS          | 1.0                              | 6                                                  |                                   |
| 8.2                                                 | B            | T340B825(1)015AS          | 1.0                              | 6                                                  |                                   |
| <b>10.0</b>                                         | <b>B</b>     | <b>T340B106(1)015AS</b>   | <b>3.0</b>                       | <b>6</b>                                           | <b>3.2</b>                        |

(1) To complete KEMET Part Number, insert M — ±20%, K — ±10%, or J — ±5% for capacitance tolerance as shown in T340 ordering information.  
 (2) To complete KEMET Part Number, insert letter "D" for 10.0 mm (.394) lead spacing or letter "F" for 5.0 mm (.197) lead spacing. See page 53 for outline drawings.  
**Bold face** lines indicate popular part types and values.  
 Higher voltage and better capacitance tolerance product may be substituted for an order within the same case size at KEMET'S option.

T340 Series Tantalum  
Molded / Radial

### RATINGS & PART NUMBER REFERENCE

| CAPACITANCE<br>µF                                            | CASE<br>SIZE | KEMET<br>PART NUMBER      | MAX.<br>DC<br>LEAKAGE<br>µA@25°C | MAX.<br>DISSIPATION<br>FACTOR<br>%@25°C,<br>120 HZ | MAX<br>IMPEDANCE<br>Ω@<br>10 kHz |
|--------------------------------------------------------------|--------------|---------------------------|----------------------------------|----------------------------------------------------|----------------------------------|
| <b>15/16 VOLT RATING AT 85°C — 10 VOLT AT 125°C (Cont'd)</b> |              |                           |                                  |                                                    |                                  |
| 12.0                                                         | C            | T340C126(1)015AS          | 3.0                              | 6                                                  | 2.5                              |
| 15.0                                                         | C            | T340C156(1)015AS          | 3.5                              | 6                                                  |                                  |
| 18.0                                                         | C            | T340C186(1)015AS          | 4.0                              | 6                                                  |                                  |
| <b>22.0</b>                                                  | <b>C</b>     | <b>T340C226(1)015AS</b>   | <b>4.0</b>                       | <b>6</b>                                           |                                  |
| 27.0                                                         | C            | T340C276(1)015AS          | 5.0                              | 6                                                  |                                  |
| 33.0                                                         | C            | T340C336(1)015AS          | 5.0                              | 6                                                  |                                  |
| 39.0                                                         | D/F          | T340(2)396(1)015AS        | 7.0                              | 6                                                  | 1.3                              |
| <b>47.0</b>                                                  | <b>D/F</b>   | <b>T340(2)476(1)015AS</b> | <b>7.0</b>                       | <b>6</b>                                           |                                  |
| 56.0                                                         | D/F          | T340(2)566(1)015AS        | 8.0                              | 6                                                  |                                  |
| <b>68.0</b>                                                  | <b>D/F</b>   | <b>T340(2)686(1)015AS</b> | <b>9.0</b>                       | <b>6</b>                                           |                                  |
| 82.0                                                         | D/F          | T340(2)826(1)015AS        | 10.0                             | 6                                                  | 1.1                              |
| 100.0                                                        | E            | T340E107(1)015AS          | 10.0                             | 6                                                  | 0.8                              |
| <b>150.0</b>                                                 | <b>E</b>     | <b>T340E157(1)015AS</b>   | <b>10.0</b>                      | <b>6</b>                                           |                                  |
| <b>20 VOLT RATING AT 85°C — 13 VOLT AT 125°C</b>             |              |                           |                                  |                                                    |                                  |
| 2.2                                                          | A            | T340A225(1)020AS          | 1.0                              | 6                                                  | 12.0                             |
| 3.3                                                          | B            | T340B335(1)020AS          | 1.0                              | 6                                                  | 8.0                              |
| 4.7                                                          | B            | T340B475(1)020AS          | 1.5                              | 6                                                  | 5.5                              |
| 6.8                                                          | B            | T340B685(1)020AS          | 2.5                              | 6                                                  | 4.2                              |
| 15.0                                                         | C            | T340C156(1)020AS          | 5.0                              | 6                                                  | 2.5                              |
| 47.0                                                         | D            | T340D476(1)020AS          | 9.0                              | 6                                                  | 1.3                              |
| 100.0                                                        | E            | T340E107(1)020AS          | 10.0                             | 6                                                  | 0.8                              |
| <b>25 VOLT RATING AT 85°C — 16 VOLT AT 125°C</b>             |              |                           |                                  |                                                    |                                  |
| <b>1.5</b>                                                   | <b>A</b>     | <b>T340A155(1)025AS</b>   | <b>1.0</b>                       | <b>6</b>                                           | <b>17.0</b>                      |
| 2.7                                                          | B            | T340B275(1)025AS          | 1.0                              | 6                                                  | 5.5                              |
| 3.3                                                          | B            | T340B335(1)025AS          | 1.0                              | 6                                                  |                                  |
| 3.9                                                          | B            | T340B395(1)025AS          | 1.0                              | 6                                                  |                                  |
| 4.7                                                          | B            | T340B475(1)025AS          | 2.0                              | 6                                                  |                                  |
| 5.6                                                          | C            | T340C565(1)025AS          | 2.0                              | 6                                                  |                                  |
| 6.8                                                          | C            | T340C685(1)025AS          | 3.0                              | 6                                                  | 4.2                              |
| 8.2                                                          | C            | T340C825(1)025AS          | 3.0                              | 6                                                  |                                  |
| <b>10.0</b>                                                  | <b>C</b>     | <b>T340C106(1)025AS</b>   | <b>3.5</b>                       | <b>6</b>                                           |                                  |
| 12.0                                                         | C            | T340C126(1)025AS          | 3.5                              | 6                                                  |                                  |
| 15.0                                                         | C            | T340C156(1)025AS          | 4.0                              | 6                                                  |                                  |
| 18.0                                                         | D/F          | T340(2)186(1)025AS        | 5.0                              | 6                                                  | 2.0                              |
| 22.0                                                         | D/F          | T340(2)226(1)025AS        | 5.5                              | 6                                                  |                                  |
| 27.0                                                         | D/F          | T340(2)276(1)025AS        | 7.0                              | 6                                                  |                                  |
| <b>33.0</b>                                                  | <b>D/F</b>   | <b>T340(2)336(1)025AS</b> | <b>8.0</b>                       | <b>6</b>                                           |                                  |
| 39.0                                                         | D/F          | T340(2)396(1)025AS        | 10.0                             | 6                                                  |                                  |
| 47.0                                                         | D/E/F        | T340(2)476(1)025AS        | 10.0                             | 6                                                  |                                  |
| 68.0                                                         | E            | T340E686(1)025AS          | 10.0                             | 6                                                  | 0.9                              |
| <b>35 VOLT RATING AT 85°C — 23 VOLT AT 125°C</b>             |              |                           |                                  |                                                    |                                  |
| 0.1                                                          | A            | T340A104(1)035AS          | 1.0                              | 6                                                  | 220.0                            |
| 0.15                                                         | A            | T340A154(1)035AS          | 1.0                              | 6                                                  | 150.0                            |
| 0.22                                                         | A            | T340A224(1)035AS          | 1.0                              | 6                                                  | 100.0                            |
| 0.33                                                         | A            | T340A334(1)035AS          | 1.0                              | 6                                                  | 75.0                             |
| 0.47                                                         | A            | T340A474(1)035AS          | 1.0                              | 6                                                  | 50.0                             |
| 0.68                                                         | A            | T340A684(1)035AS          | 1.0                              | 6                                                  | 36.0                             |
| <b>1.0</b>                                                   | <b>A</b>     | <b>T340A105(1)035AS</b>   | <b>1.0</b>                       | <b>6</b>                                           | <b>25.0</b>                      |
| 1.2                                                          | B            | T340B125(1)035AS          | 1.0                              | 6                                                  | 15.0                             |
| 1.5                                                          | B            | T340B155(1)035AS          | 1.0                              | 6                                                  |                                  |
| 1.8                                                          | B            | T340B185(1)035AS          | 1.0                              | 6                                                  |                                  |
| <b>2.2</b>                                                   | <b>B</b>     | <b>T340B225(1)035AS</b>   | <b>1.0</b>                       | <b>6</b>                                           |                                  |
| 2.7                                                          | B            | T340B275(1)035AS          | 1.0                              | 6                                                  |                                  |
| 3.3                                                          | B/C          | T340(2)335(1)035AS        | 1.0                              | 6                                                  |                                  |

(1) To complete KEMET Part Number, insert M — ±20%, K — ±10%, or J — ±5% for capacitance tolerance as shown in T340 ordering information.  
 (2) To complete KEMET Part Number, insert letter "C" for 5.0 mm (.197") lead spacing, "D" for 10.0 mm (.394") lead spacing, "E" for 10.0 mm (.394") lead spacing or "F" for 5.0 mm (.197") lead spacing. See page 53 for outline drawings.  
**Bold face** lines indicate popular part types and values.  
 Higher voltage and better capacitance tolerance product may be substituted for an order within the same case size at KEMET'S option.

RATINGS & PART NUMBER REFERENCE

| CAPACITANCE<br>μF                                         | CASE<br>SIZE | KEMET<br>PART NUMBER      | MAX.<br>DC<br>LEAKAGE<br>μA@25°C | MAX.<br>DISSIPATION<br>FACTOR<br>%@25°C,<br>120 HZ | MAX<br>IMPEDANCE<br>Ω@<br>10 kHz |
|-----------------------------------------------------------|--------------|---------------------------|----------------------------------|----------------------------------------------------|----------------------------------|
| <b>35 VOLT RATING AT 85°C — 23 VOLT AT 125°C (Cont'd)</b> |              |                           |                                  |                                                    |                                  |
| 3.9                                                       | C            | T340C395(1)035AS          | 1.0                              | 6                                                  |                                  |
| <b>4.7</b>                                                | <b>C</b>     | <b>T340C475(1)035AS</b>   | <b>2.5</b>                       | <b>6</b>                                           | <b>5.5</b>                       |
| 5.6                                                       | C            | T340C565(1)035AS          | 2.5                              | 6                                                  |                                  |
| <b>6.8</b>                                                | <b>C</b>     | <b>T340C685(1)035AS</b>   | <b>3.0</b>                       | <b>6</b>                                           | <b>4.2</b>                       |
| 8.2                                                       | C            | T340C825(1)035AS          | 4.0                              | 6                                                  |                                  |
| <b>10.0</b>                                               | <b>C</b>     | <b>T340(2)106(1)035AS</b> | <b>4.0</b>                       | <b>6</b>                                           | <b>2.8</b>                       |
| 12.0                                                      | D/F          | T340(2)126(1)035AS        | 5.0                              | 6                                                  |                                  |
| 15.0                                                      | D/F          | T340(2)156(1)035AS        | 5.0                              | 6                                                  | 2.2                              |
| 18.0                                                      | D/F          | T340(2)186(1)035AS        | 8.0                              | 6                                                  |                                  |
| <b>22.0</b>                                               | <b>D/F</b>   | <b>T340(2)226(1)035AS</b> | <b>8.0</b>                       | <b>6</b>                                           | <b>1.9</b>                       |
| 27.0                                                      | D/F          | T340(2)276(1)035AS        | 10.0                             | 6                                                  |                                  |
| 33.0                                                      | D/E/F        | T340(2)336(1)035AS        | 10.0                             | 6                                                  | 1.4                              |
| <b>47.0</b>                                               | <b>E</b>     | <b>T340E476(1)035AS</b>   | <b>10.0</b>                      | <b>6</b>                                           | <b>1.1</b>                       |
| <b>40 VOLT RATING AT 85°C — 32 VOLT AT 100°C</b>          |              |                           |                                  |                                                    |                                  |
| 0.1                                                       | A            | T340A104(1)040AS          | 1.0                              | 6                                                  | 200.0                            |
| 0.15                                                      | A            | T340A154(1)040AS          | 1.0                              | 6                                                  | 140.0                            |
| 0.22                                                      | A            | T340A224(1)040AS          | 1.0                              | 6                                                  | 95.0                             |
| 0.33                                                      | A            | T340A334(1)040AS          | 1.0                              | 6                                                  | 70.0                             |
| 0.47                                                      | A            | T340A474(1)040AS          | 1.0                              | 6                                                  | 46.0                             |
| 0.68                                                      | A            | T340A684(1)040AS          | 1.0                              | 6                                                  | 34.0                             |
| 1.0                                                       | A            | T340A105(1)040AS          | 1.0                              | 6                                                  | 23.0                             |
| 1.5                                                       | B            | T340B155(1)040AS          | 1.0                              | 6                                                  | 14.0                             |
| 2.2                                                       | B            | T340B225(1)040AS          | 1.7                              | 6                                                  | 10.0                             |
| 3.3                                                       | C            | T340C335(1)040AS          | 2.3                              | 6                                                  | 7.0                              |
| 4.7                                                       | C            | T340C475(1)040AS          | 3.0                              | 6                                                  | 5.0                              |
| 6.8                                                       | C            | T340C685(1)040AS          | 3.5                              | 6                                                  | 3.9                              |
| 10.0                                                      | D            | T340D106(1)040AS          | 4.5                              | 6                                                  | 2.6                              |
| 15.0                                                      | D            | T340D156(1)040AS          | 6.0                              | 6                                                  | 2.0                              |
| 22.0                                                      | D            | T340D226(1)040AS          | 9.0                              | 6                                                  | 1.7                              |
| 33.0                                                      | E            | T340E336(1)040AS          | 10.0                             | 6                                                  | 1.3                              |
| 47.0                                                      | E            | T340E476(1)040AS          | 10.0                             | 6                                                  | 1.0                              |
| <b>50 VOLT RATING AT 85°C — 33 VOLT AT 125°C</b>          |              |                           |                                  |                                                    |                                  |
| 0.1                                                       | A            | T340A104(1)050AS          | 1.0                              | 6                                                  | 220.0                            |
| 0.15                                                      | A            | T340A154(1)050AS          | 1.0                              | 6                                                  | 150.0                            |
| 0.22                                                      | A            | T340A224(1)050AS          | 1.0                              | 6                                                  | 100.0                            |
| 0.33                                                      | A            | T340A334(1)050AS          | 1.0                              | 6                                                  | 75.0                             |
| 0.39                                                      | B            | T340B394(1)050AS          | 1.0                              | 6                                                  |                                  |
| 0.47                                                      | B            | T340B474(1)050AS          | 1.0                              | 6                                                  | 50.0                             |
| 0.56                                                      | B            | T340B564(1)050AS          | 1.0                              | 6                                                  |                                  |
| 0.68                                                      | B            | T340B684(1)050AS          | 1.0                              | 6                                                  | 36.0                             |
| 0.82                                                      | B            | T340B824(1)050AS          | 1.0                              | 6                                                  |                                  |
| 1.0                                                       | B            | T340B105(1)050AS          | 1.0                              | 6                                                  | 25.0                             |
| 1.2                                                       | B            | T340B125(1)050AS          | 1.0                              | 6                                                  |                                  |
| 1.5                                                       | B/C          | T340(2)155(1)050AS        | 1.1                              | 6                                                  | 15.0                             |
| 1.8                                                       | B            | T340B185(1)050AS          | 1.1                              | 6                                                  |                                  |
| 2.2                                                       | B/C          | T340(2)225(1)050AS        | 1.5                              | 6                                                  | 11.0                             |
| 2.7                                                       | C            | T340C275(1)050AS          | 1.5                              | 6                                                  |                                  |
| 3.3                                                       | C/D          | T340(2)335(1)050AS        | 2.5                              | 6                                                  | 7.5                              |
| 3.9                                                       | C            | T340C395(1)050AS          | 3.0                              | 6                                                  |                                  |
| 4.7                                                       | C/D          | T340(2)475(1)050AS        | 3.5                              | 6                                                  | 5.5                              |
| 5.6                                                       | C            | T340C565(1)050AS          | 4.0                              | 6                                                  |                                  |
| 6.8                                                       | D/F          | T340(2)685(1)050AS        | 5.0                              | 6                                                  | 4.0                              |
| 8.2                                                       | D/F          | T340(2)825(1)050AS        | 6.0                              | 6                                                  |                                  |
| 10.0                                                      | D/F          | T340(2)106(1)050AS        | 7.0                              | 6                                                  | 2.8                              |
| 12.0                                                      | D/F          | T340(2)126(1)050AS        | 8.0                              | 6                                                  |                                  |
| 15.0                                                      | D/F          | T340(2)156(1)050AS        | 9.0                              | 6                                                  | 2.2                              |
| 18.0                                                      | D/F          | T340(2)186(1)050AS        | 10.0                             | 6                                                  |                                  |
| 22.0                                                      | E            | T340E226(1)050AS          | 10.0                             | 6                                                  | 1.7                              |

(1) To complete KEMET Part Number, insert M — ±20%, K — ±10%, or J — ±5% for capacitance tolerance as shown in T340 ordering information.  
 (2) To complete KEMET Part Number, insert letter "C" for 5.0 mm (.197") lead spacing, "D" for 10.0 mm (.394") lead spacing, "E" for 10.0 mm (.394") lead spacing or letter "F" for 5.0 mm (.197") lead spacing. See page 53 for outline drawings.

**Bold face** lines indicate popular part types and values.

Higher voltage and better capacitance tolerance product may be substituted for an order within the same case size at KEMET'S option.

T340 Series Tantalum  
Molded / Radial





# TANTALUM MOLDED / RADIAL — MIL-C-49137/6

## T370/T378 (CX06) MIL-PRF-49137/6 SERIES

The KEMET Micron Series is available in a variety of case styles and sizes. They are designed to operate from -55°C to +85°C at full voltage and to +125°C with derating. Typical applications include use in bypass coupling, filtering, and timing circuits.

The KEMET Micron Series is qualified under MIL-PRF-49137/6 as military styles CX06 (T378 Series).

The KEMET T370 Series is encapsulated in a molded gold color epoxy. This encasement technique allows maximum utilization of circuit board real estate with precisely centered leads in a microminature case.

These molded packages also provide significant improvements in overall dimensional consistency as well as lead wires precisely spaced to within .010 inches (.25mm).

With our new molded packaging design, these capacitors can now be marked using our laser printing technique. The KEMET laser marking system ensures legibility and permanency while offering a complete alphanumeric print format. Laser print meets all requirements of the Resistance to Solvents Test, method 215 of MIL-STD-202.

### PERFORMANCE CHARACTERISTICS

- **CAPACITANCE/VOLTAGE RANGE:**  
T370 Series: 0.68-220µF, 3-35 Volts.  
T378 Series: 2.2-220µF, 3-35 Volts.
- **CAPACITANCE TOLERANCE:** Available in standard EIA nominal values with ±20% tolerance standard, +40% -20%, ±10% and ±5% are also available.
- **DISSIPATION FACTOR:** Maximum DF limits are shown in corresponding series part number listings on page 60. See Application Notes Section, page 76 for additional information.
- **DC LEAKAGE CURRENT:** Maximum leakage values at 25° are shown in part number listings, page 60. See Application Notes Section, page 76 for additional information.
- **RATED VOLTAGE; WORKING VOLTAGE; SURGE VOLTAGE; REVERSE VOLTAGE:** See Application Notes Section, pages 76 & 77 for description.
- **IMPEDANCE and ESR:** See Application Notes Section, pages 78 for description. Reference ESR values are listed in table below.
- **AC RIPPLE VOLTAGE:** Permissible AC ripple volt-

**T370 ESR (OHMS) at 100 kHz @ +25°C**  
(The ESR values provided below are for reference only. No warranty, as stated on page 3 and reincorporated here, is made as to the accuracy of these values for any particular T370 Series product.)

| Cap. µF | 6 Volt | 10 Volt | 15 Volt | 20 Volt | 25 Volt | 35 Volt |
|---------|--------|---------|---------|---------|---------|---------|
| 0.68    |        |         |         |         |         | 10.0    |
| 1.00    |        |         |         |         |         | 8.0     |
| 1.50    |        |         |         |         |         | 6.0     |
| 2.20    |        |         |         |         | 6.0     | 5.0     |
| 3.30    |        |         |         | 5.5     | 5.0     | 4.0     |
| 4.70    |        |         |         | 4.5     | 4.0     | 3.0     |
| 6.80    |        |         |         | 3.6     | 3.1     | 2.5     |
| 10.0    | 6.0    | 6.0     |         | 2.9     | 2.5     | 2.0     |
| 15.0    | 5.0    | 3.7     |         | 2.3     | 2.0     | 1.6     |
| 22.0    | 3.7    | 2.7     | 2.5     | 2.0     | 1.8     | 1.5     |
| 33.0    | 3.0    | 2.1     | 1.6     | 1.4     | 1.2     | 1.3     |
| 47.0    | 2.0    | 1.7     | 1.3     | 1.2     |         |         |
| 68.0    | 1.8    | 1.3     | 1.0     |         |         |         |
| 100.0   | 1.6    | 1.0     |         |         |         |         |
| 150.0   | 0.9    |         |         |         |         |         |

age is related to the ESR of the capacitor and the power dissipation capabilities of a particular case size. Thermal capacities for the various case sizes have been determined and are listed in Table below. For additional description see page 78.

#### ENVIRONMENTAL CONSIDERATIONS:

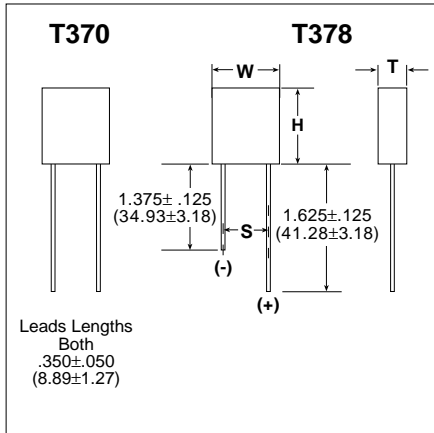
| Case Size | Watts |
|-----------|-------|
| C         | .070  |
| D         | .080  |
| E         | .090  |
| F         | .100  |

Maximum Power Dissipation Capability @ 25°C

- A. Shock Test: MIL-STD-202, Method 213 Condition 1.
  - B. Thermal Shock, MIL-STD-202, Method 107.
  - C. Moisture Resistance: MIL-STD-202, Method 106.
  - D. Solderability: MIL-STD-202, Method 208.
- For additional Environmental Test Information see pages 80, 81 and 82.
- **LEAD MATERIAL:** Solder coated nickel per MIL-STD1266, type N32.
  - **LEAD TAPE and REEL:** Reeling per specification RS-468. See pages 72 and 74 for additional information.

CAPACITOR OUTLINE DRAWING

DIMENSIONS - INCHES (MILLIMETER)



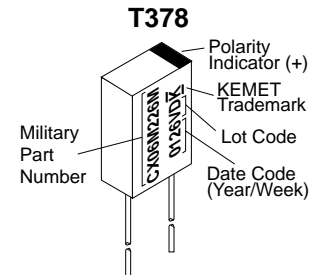
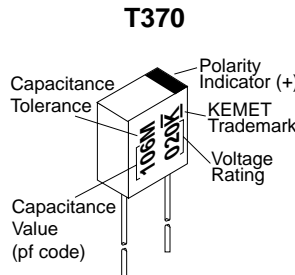
| CASE SIZE | H MAX.       | W MAX.      | T MAX.      | S LEAD SPACING           | LEAD DIAMETER ± .001 (.03) |
|-----------|--------------|-------------|-------------|--------------------------|----------------------------|
| *C        | .225 (5.72)  | .185 (4.70) | .075 (1.91) | .150 ± .010 (3.81 ± .25) | .016 (.41)                 |
| D         | .290 (7.37)  | .220 (5.59) | .110 (2.79) | .180 ± .010 (4.57 ± .25) | .016 (.41)                 |
| E         | .310 (7.87)  | .230 (5.84) | .130 (3.30) | .200 ± .010 (5.08 ± .25) | .016 (.41)                 |
| F         | .475 (12.07) | .375 (9.53) | .150 (3.81) | .300 ± .010 (7.62 ± .25) | .016 (.41)                 |

\*C case size T370 style only.

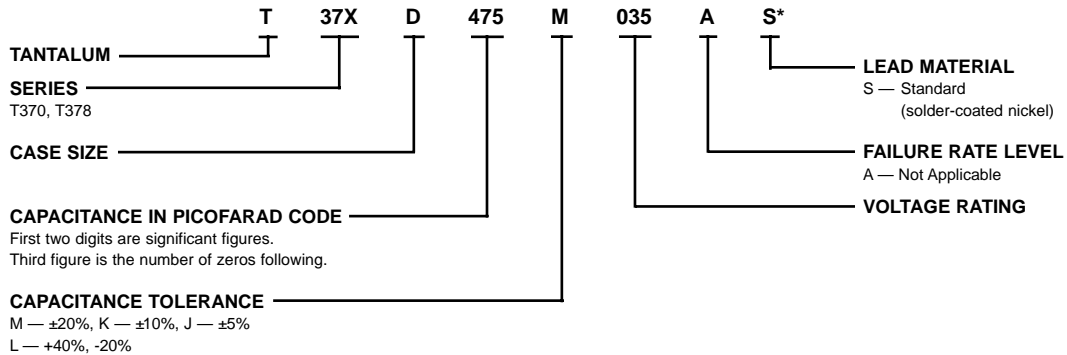
CAPACITOR MARKING

INDUSTRIAL PRODUCT

MILITARY PRODUCT

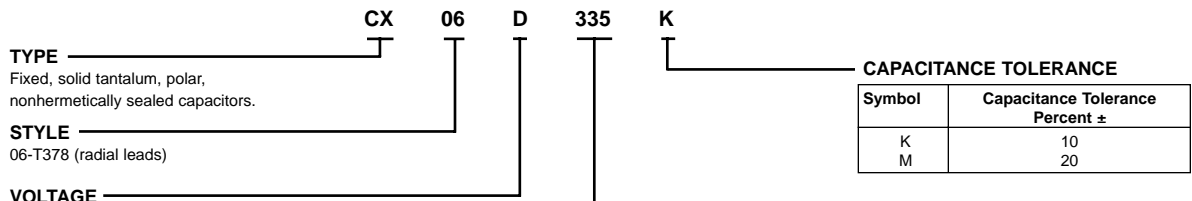


ORDERING INFORMATION  
KEMET PART NUMBER



\*Part Number Example: T370D475M035AS (14 digits – no spaces)

MIL-PRF-49137/6 PART NUMBER  
CX06(T378) STYLE



| Symbol | Rated (85°C)<br>Volts, dc | Surge (85°C)<br>Volts, dc |
|--------|---------------------------|---------------------------|
| A      | 2                         | 2.6                       |
| B      | 3                         | 4                         |
| C      | 4                         | 5                         |
| D      | 6                         | 8                         |
| F      | 10                        | 13                        |
| H      | 15                        | 20                        |
| J      | 20                        | 26                        |
| K      | 25                        | 32                        |
| M      | 35                        | 46                        |

The nominal capacitance value, expressed in picofarads (pF), is identified by a three digit number. The first two digits represent significant figures and the last digit specifies the number of zeros to follow.

T370/T378 Series Tantalum  
Molded / Radial



# TANTALUM MOLDED / RADIAL — MIL-PRF-49137/6

## T370/T378 (CX06) SERIES

### RATINGS & PART NUMBER REFERENCE

| CAPACITANCE<br>µF                                      | CASE<br>SIZE | INDUSTRIAL PRODUCT<br>T370<br>PART NO. | MILITARY PRODUCT |                  | DC LEAKAGE<br>µA@25°C<br>MAXIMUM | DISSIPATION FACTOR<br>%@25°C 120HZ<br>MAXIMUM |
|--------------------------------------------------------|--------------|----------------------------------------|------------------|------------------|----------------------------------|-----------------------------------------------|
|                                                        |              |                                        | CX06<br>PART NO. | T378<br>PART NO. |                                  |                                               |
| <b>3 VOLT RATING AT 85°C—2.0 VOLT RATING AT 125°C</b>  |              |                                        |                  |                  |                                  |                                               |
| 220.0                                                  | F            | T370F227(1)003AS                       | CX06B227(2)      | T378F227(3)003AS | 9.0                              | 15                                            |
| <b>4 VOLT RATING AT 85°C—2.7 VOLT RATING AT 125°C</b>  |              |                                        |                  |                  |                                  |                                               |
| 15.0                                                   | C            | T370C156(1)004AS                       |                  |                  | 1.0                              | 8                                             |
| 47.0                                                   | D            | T370D476(1)004AS                       | CX06C476(2)      | T378D476(3)004AS | 2.0                              | 8                                             |
| 68.0                                                   | E            | T370E686(1)004AS                       | CX06C686(2)      | T378E686(3)004AS | 3.0                              | 8                                             |
| <b>6 VOLT RATING AT 85°C—4.0 VOLT RATING AT 125°C</b>  |              |                                        |                  |                  |                                  |                                               |
| 10.0                                                   | C            | T370C106(1)006AS                       |                  |                  | 1.0                              | 6                                             |
| 33.0                                                   | D            | T370D336(1)006AS                       | CX06D336(2)      | T378D336(3)006AS | 2.0                              | 6                                             |
| 47.0                                                   | E            | T370E476(1)006AS                       | CX06D476(2)      | T378E476(3)006AS | 3.0                              | 6                                             |
| 150.0                                                  | F            | T370F157(1)006AS                       | CX06D157(2)      | T378F157(3)006AS | 9.0                              | 10                                            |
| <b>10 VOLT RATING AT 85°C—7.0 VOLT RATING AT 125°C</b> |              |                                        |                  |                  |                                  |                                               |
| 6.8                                                    | C            | T370C685(1)010AS                       |                  |                  | 1.0                              | 6                                             |
| 22.0                                                   | D            | T370D226(1)010AS                       | CX06F226(2)      | T378D226(3)010AS | 2.0                              | 6                                             |
| 33.0                                                   | E            | T370E336(1)010AS                       | CX06F336(2)      | T378E336(3)010AS | 3.0                              | 6                                             |
| 100.0                                                  | F            | T370F107(1)010AS                       | CX06F107(2)      | T378F107(3)010AS | 9.0                              | 8                                             |
| <b>15 VOLT RATING AT 85°C—10 VOLT RATING AT 125°C</b>  |              |                                        |                  |                  |                                  |                                               |
| 15.0                                                   | D            | T370D156(1)015AS                       | CX06H156(2)      | T378D156(3)015AS | 2.0                              | 6                                             |
| 22.0                                                   | E            | T370E226(1)015AS                       | CX06H226(2)      | T378E226(3)015AS | 3.0                              | 6                                             |
| 68.0                                                   | F            | T370F686(1)015AS                       | CX06H686(2)      | T378F686(3)015AS | 9.0                              | 8                                             |
| <b>20 VOLT RATING AT 85°C—13 VOLT RATING AT 125°C</b>  |              |                                        |                  |                  |                                  |                                               |
| 3.3                                                    | C            | T370C335(1)020AS                       |                  |                  | 1.0                              | 6                                             |
| 4.7                                                    | C            | T370C475(1)020AS                       |                  |                  | 1.0                              | 6                                             |
| 10.0                                                   | D            | T370D106(1)020AS                       | CX06J106(2)      | T378D106(3)020AS | 2.0                              | 6                                             |
| 15.0                                                   | E            | T370E156(1)020AS                       | CX06J156(2)      | T378E156(3)020AS | 3.0                              | 6                                             |
| 47.0                                                   | F            | T370F476(1)020AS                       | CX06J476(2)      | T378F476(3)020AS | 9.0                              | 8                                             |
| <b>25 VOLT RATING AT 85°C—17 VOLT RATING AT 125°C</b>  |              |                                        |                  |                  |                                  |                                               |
| 2.2                                                    | C            | T370C225(1)025AS                       |                  |                  | 1.0                              | 6                                             |
| 6.8                                                    | D            | T370D685(1)025AS                       | CX06K685(2)      | T378D685(3)025AS | 2.0                              | 6                                             |
| 10.0                                                   | E            | T370E106(1)025AS                       | CX06K106(2)      | T378E106(3)025AS | 3.0                              | 6                                             |
| 33.0                                                   | F            | T370F336(1)025AS                       | CX06K336(2)      | T378F336(3)025AS | 9.0                              | 6                                             |
| <b>35 VOLT RATING AT 85°C—23 VOLT RATING AT 125°C</b>  |              |                                        |                  |                  |                                  |                                               |
| 0.68                                                   | C            | T370C684(1)035AS                       |                  |                  | 1.0                              | 6                                             |
| 1.0                                                    | C            | T370C105(1)035AS                       |                  |                  | 1.0                              | 6                                             |
| 1.5                                                    | C            | T370C155(1)035AS                       |                  |                  | 1.0                              | 6                                             |
| 2.2                                                    | D            | T370D225(1)035AS                       | CX06M225(2)      | T378D225(3)035AS | 2.0                              | 6                                             |
| 3.3                                                    | D            | T370D335(1)035AS                       | CX06M335(2)      | T378D335(3)035AS | 2.0                              | 6                                             |
| 4.7                                                    | D            | T370D475(1)035AS                       | CX06M475(2)      | T378D475(3)035AS | 2.0                              | 6                                             |
| 6.8                                                    | E            | T370E685(1)035AS                       | CX06M685(2)      | T378E685(3)035AS | 3.0                              | 6                                             |
| 10.0                                                   | F            | T370F106(1)035AS                       | CX06M106(2)      | T378F106(3)035AS | 9.0                              | 6                                             |
| 15.0                                                   | F            | T370F156(1)035AS                       | CX06M156(2)      | T378F156(3)035AS | 9.0                              | 6                                             |
| 22.0                                                   | F            | T370F226(1)035AS                       | CX06M226(2)      | T378F226(3)035AS | 9.0                              | 6                                             |

- (1) To complete KEMET part number, insert capacitance tolerance symbol as follows: L = +40%, -20%; M = ±20%; K = ±10%; J = ±5%.  
 (2) To complete military part number, insert capacitance tolerance symbol as follows: M = ±20%; K = ±10%.  
 (3) To complete KEMET part number, insert capacitance tolerance symbol as follows: M = ±20%; K = ±10%.