

ORDERING INFORMATION (OBSOLETE*)

CSR XX B 565 K M

TYPE — Capacitors, Fixed, Solid Electrolyte, Tantalum Established Reliability

STYLE — Tubular Case — Always Sleeved

09 — Miniature — T222
 13 — Standard — T212
 21 — Standard, low ESR — T262
 23 — Extended Range — T242
 33 — Extended Range, Low Leakage — T252
 91 — Non-Polar — T213

VOLTAGE —

FAILURE RATE LEVEL IN % PER 1000 HOURS GRADED

A — Not Applicable
 B — 0.1%/k hrs.
 C — 0.01%/k hrs.
 D — 0.001%/k hrs.

EXPONENTIAL

M — 1%/k hrs.
 P — 0.1%/k hrs.
 R — 0.01%/k hrs.
 S — 0.001%/k hrs.

CAPACITANCE TOLERANCE

J — ± 5%
 K — ± 10%
 M — ± 20%

CAPACITANCE

Expressed in picofarads (1 microfarad = 1,000,000 picofarads). First two digits represent significant figures. Last digit specifies the number of zeros to follow.

Examples

565 — 5,600,000 = 5.60 µF 563 — 56,000 = .056 µF
 564 — 560,000 = .56 µF

| Symbol | VDC Working | | VDC Surge | |
|--------|-------------|-------|-----------|-------|
| | 85°C | 125°C | 85°C | 125°C |
| B | 6 | 4 | 8 | 5 |
| C | 10 | 7 | 13 | 9 |
| D | 15 | 10 | 20 | 12 |
| E | 20 | 13 | 26 | 16 |
| F | 35 | 23 | 46 | 28 |
| G | 50 | 33 | 65 | 40 |
| H | 75 | 50 | 98 | 64 |
| J | 100 | 67 | 130 | 86 |

* This Military Part Numbering System is obsolete in accordance with the current specifications. The correct current designation for a CSR part number is the MIL Specification Number, followed by the Specification (slash) Sheet Number and Dash Number (i.e. — MIL-PRF-39003/01-2270). However, the part number breakdown shown above is still widely used and is shown for reference.

MILITARY CAPACITOR APPROVED FAILURE RATE LEVELS AND MARKINGS PER MIL-PRF-39003 FOR CSR09 (T222 A & B CASE SIZES ONLY), CSR13 (T212), CSR21 (T262), CSR23 (T242) & CSR33 (T252) CAPACITORS

KEMET APPROVED FAILURE RATE LEVELS — MIL-PRF-39003/H (EXPONENTIAL)

| STYLE | DESCRIPTION | KEMET SERIES | APPROVED FAILURE RATE LEVEL |
|-------|-------------------------------------|--------------|-----------------------------|
| CSR09 | Polar-Subminiature | T222 | S (0.001%/k hrs.) |
| CSR13 | Polar-Standard MIL Range | T212 | S (0.001%/k hrs.) |
| CSR21 | Polar-Standard Low ESR MIL Range | T262 | S (0.001%/k hrs.) |
| CSR23 | Polar-Extended Range | T242 | S (0.001%/k hrs.) |

| STYLE | DESCRIPTION | KEMET SERIES | APPROVED FAILURE RATE LEVEL |
|-------|-------------------------------------|--------------|-----------------------------|
| CSR33 | Polar-Extended Range Low Leakage | T252 | S (0.001%/k hrs.) |
| CSR91 | Non-Polar | T213 | S (0.001%/k hrs.) |

MILITARY MARKING

A CASE

39003 — Military specification number
 01 - K — Specification sheet number and trademark
 9002J — Military dash number and "J" for JAN
 +333 — Polarity, date code (1st digit indicates year and the next two digits indicate the week)
 XY — Lot symbol

C & D CASES

M39003 — Military specification number
 01 - 8222J — Specification sheet number, Military dash number, and "J" for JAN
 +8.2 µF — Positive terminal identifier and capacitance value
 10% 50V — Capacitance tolerance and voltage
 31433 — Source code
 0333 XY K — Date code, lot code, and trademark

B CASE

M39003 — Military specification number
 01 - — Specification sheet number
 8006J — Military dash number and "J" for JAN
 31433 — Source code
 +333 XY — Polarity, date code (1st digit indicates year and the next two digits indicate the week), lot symbol

CSR91 (T213) CAPACITORS A, B, C & D CASES

M39003 — Military specification number
 04 - 0980J — Specification sheet number, Military dash number, and "J" for JAN
 1 µF — Capacitance value
 10% 20VNP — Capacitance tolerance and voltage rating
 0333 XY 31433 — Date code, lot code, and source code

(See page 38 for CSS Marking)

KEMET APPROVED FAILURE RATE LEVELS — MIL-PRF-39003/H (GRADED)

| STYLE | DESCRIPTION | KEMET SERIES | APPROVED FAILURE RATE LEVEL* |
|---------|---------------------------------|--------------|------------------------------|
| CSR09 | Polar-Subminiature | T222 | D (0.001%/k hrs.) |
| CSR13* | Polar-Standard MIL Case | T212 | D (0.001%/k hrs.) |
| CSS13** | Polar-Standard MIL Case | T216 | C (0.01%/k hrs.) |
| CSR21 | Polar-Standard Low ESR MIL Case | T262 | D (0.001%/k hrs.) |
| CSR23* | Polar-Extended Range | T242 | D (0.001%/k hrs.) |

*Not approved to 'D' Failure Rate Level on all voltages and capacitance values.

**MIL-PRF-39003/10 for space applications.

| STYLE | DESCRIPTION | KEMET SERIES | APPROVED FAILURE RATE LEVEL* |
|---------|----------------------------------|--------------|------------------------------|
| CSR33* | Polar-Extended Range Low Leakage | T252 | D (0.001%/k hrs.) |
| CSS33** | Polar-Extended Range Low Leakage | T256 | C (0.01%/k hrs.) |
| CSR91* | Non-Polar | T213 | D (0.001%/k hrs.) |

*Not approved to 'D' Failure Rate Level on all voltages and capacitance values.

**MIL-PRF-39003/10 for space applications.

PERFORMANCE CHARACTERISTICS

- **CAPACITANCE/VOLTAGE RANGE:** .0023-1200 μ F, 6-125 Volts.
- **CAPACITANCE TOLERANCE:** Available in standard EIA values with $\pm 20\%$, $\pm 10\%$ and $\pm 5\%$ tolerances.
- **DISSIPATION FACTOR:** Maximum DF limits are shown in corresponding series part number listings on pages 7-41. 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 7-41. See Application Notes Section, page 76 for additional description.
- **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 77 & 78 for description. Reference ESR values are shown for commercial hermetically sealed capacitors on page 19.
- **AC RIPPLE VOLTAGE:** Permissible AC ripple voltage 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 empirically and are listed below. For additional description see page 78.

| Standard Case Size | Watts | T222 |
|--------------------|-------|------|
| A | .09 | .070 |
| B | .100 | .090 |
| C | .125 | — |
| D | .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, Condition B.
 - 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:** Standard leads are solder-coated nickel per MIL-STD-1276.
- **INSULATING SLEEVES:** The standard insulating material used in transparent high temperature plastic, having 2000 volt dielectric strength, excellent dimensional stability and chemical and cold flow resistance.
- **LEAD TAPE and REEL:** Reeling per specification RS-296. See pages 71 and 73 for additional information.

KEMET standard hermetic sealed T110 Series are desirable for use in high humidity environments. They are ruggedly built, designed for miniaturized circuitry, and are especially suited for coupling, bypass, filtering and R-C timing circuits. They exhibit excellent stability, extremely low DC leakage current, dissipation factor, and ESR/impedance over a wide temperature and frequency range.

Available in standard EIA capacitance values from .0047-330 μF in $\pm 20\%$, $\pm 10\%$, and $\pm 5\%$ tolerances and working voltages from 6-125 VDC.

Higher CV values in comparable case sizes are available in KEMET T140 Series. Refer to page 27.

Included in the following Series table is a complete listing of CSR13 qualified MIL-PRF-39003 capacitors. KEMET is approved to manufacture the S (0.001%/k hrs.) Exponential & D (0.001%/k hrs.) Graded failure rate levels.

KEMET is now offering low ESR limits in the T110 Series. See ESR chart on page 19. You may order the lower ESR by using Customer Specification 2864 as the last four digits of the part number.

Effective September 30, 2005, the KEMET T110 Series is RoHS Compliant.

CAPACITOR OUTLINE DRAWINGS



DIMENSIONS — INCHES & (MILLIMETERS)

| CASE SIZE | UNINSULATED | | INSULATED | | B ± 0.002 $\pm (.05)$ | C MAX. |
|-----------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|------------------|
| | D ± 0.005 $\pm (.13)$ | L ± 0.031 $\pm (.79)$ | D ± 0.010 $\pm (.25)$ | L ± 0.031 $\pm (.79)$ | | |
| A | 0.125 (3.18) | 0.250 (6.35) | 0.135 (3.43) | 0.286 (7.26) | 0.020 (.51) | 0.422 (10.72) |
| B | 0.175 (4.45) | 0.438 (11.13) | 0.185 (4.70) | 0.474 (12.04) | 0.020 (.51) | 0.610 (15.49) |
| C | 0.279 (7.09) | 0.650 (16.51) | 0.289 (7.34) | 0.686 (17.42) | 0.025 (.64) | 0.822 (20.88) |
| D | 0.341 (8.66) | 0.750 (19.05) | 0.351 (8.92) | 0.786 (19.96) | 0.025 (.64) | 0.922 (23.42) |

ORDERING INFORMATION*



MARKING INFORMATION

Marking: Unless otherwise specified by special order, standard marking of T110 Series capacitor consists of the following:

A, B, C & D CASES

| | |
|-------------------|---|
| +K 10% | — Polarity, Manufacturer's Identification and Capacitance Tol. |
| R56 μF | — Nominal Capacitance — (μF) ("R" indicates decimal) |
| 100V | — Voltage |
| 0312 | — Date Code (e.g.: 0312) |

* For Military Marking, see page 4.



RATINGS & PART NUMBER REFERENCE

T110/T212 Series Tantalum
Hermetically Sealed

| CAPACITANCE µF | CASE SIZE | CAPACITANCE TOLERANCE ±% | KEMET T110 | | | MIL-PRF-39003 (CSR13) CAPACITORS | | | | | | | | | | | | | | |
|--|--------------|--------------------------------|------------------------|------------------------------------|---|---|-------------|-------------|--------------|----------------------------|-------------|--------------|-------------------------|--|--|--|--|--|--|--|
| | | | KEMET PART NUMBER | D.C. LEAKAGE µA@25°C MAX. | MAX. DISSIPATION FACTOR %@25°C, 120Hz | DASH NUMBER REFERENCE FAILURE RATE LEVEL (%/1000 HRS.) | | | | | | | | KEMET EQUIVALENT MILITARY PART NUMBER | | | | | | |
| | | | | | | MIL-PRF-39003/1H EXPONENTIAL | | | | MIL-PRF-39003/1H GRADED | | | | | | | | | | |
| | | | | | | M (1.0) | P (0.1) | R (0.01) | S (0.001) | B (0.1) | C (0.01) | D (0.001) | | | | | | | | |
| 6 VOLT RATING AT 85°C — 4 VOLT RATING AT 125°C | | | | | | | | | | | | | | | | | | | | |
| 2.2 | A | 5,10,20 | T110A225(1)006AS | 0.3 | 4 | | | | | | | | | | | | | | | |
| 2.7 | A | 5,10,20 | T110A275(1)006AS | 0.3 | 4 | | | | | | | | | | | | | | | |
| 3.3 | A | 5,10,20 | T110A335(1)006AS | 0.3 | 4 | | | | | | | | | | | | | | | |
| 3.9 | A | 5,10,20 | T110A395(1)006AS | 0.3 | 4 | | | | | | | | | | | | | | | |
| 4.7 | A | 5,10,20 | T110A475(1)006AS | 0.3 | 4 | | | | | | | | | | | | | | | |
| 5.6 | A | 5 | T110A565J006AS | 0.3 | 4 | 5001 | 5201 | 5401 | 5601 | 6001 | 7001 | 8001 | T212A565J006(2)S | | | | | | | |
| 5.6 | A | 10 | T110A565K006AS | 0.3 | 4 | 2241 | 2481 | 2721 | 2961 | 6002 | 7002 | 8002 | T212A565K006(2)S | | | | | | | |
| 5.6 | A | 20 | T110A565M006AS | 0.3 | 4 | | | | | | | | | | | | | | | |
| 6.8 | A | 5 | T110A685J006AS | 0.3 | 6 | 5002 | 5202 | 5402 | 5602 | 6003 | 7003 | 8003 | T212A685J006(2)S | | | | | | | |
| 6.8 | A | 10 | T110A685K006AS | 0.3 | 6 | 2242 | 2482 | 2722 | 2962 | 6004 | 7004 | 8004 | T212A685K006(2)S | | | | | | | |
| 6.8 | A | 20 | T110A685M006AS | 0.3 | 6 | 2243 | 2483 | 2723 | 2963 | 6005 | 7005 | 8005 | T212A685M006(2)S | | | | | | | |
| 8.2 | B | 5,10,20 | T110B825(1)006AS | 0.3 | 6 | | | | | | | | | | | | | | | |
| 10.0 | B | 5,10,20 | T110B106(1)006AS | 0.3 | 6 | | | | | | | | | | | | | | | |
| 12.0 | B | 5,10,20 | T110B126(1)006AS | 0.5 | 6 | | | | | | | | | | | | | | | |
| 15.0 | B | 5,10,20 | T110B156(1)006AS | 0.9 | 6 | | | | | | | | | | | | | | | |
| 18.0 | B | 5,10,20 | T110B186(1)006AS | 0.9 | 6 | | | | | | | | | | | | | | | |
| 22.0 | B | 5,10,20 | T110B226(1)006AS | 0.9 | 6 | | | | | | | | | | | | | | | |
| 27.0 | B | 5,10,20 | T110B276(1)006AS | 0.9 | 6 | | | | | | | | | | | | | | | |
| 33.0 | B | 5,10,20 | T110B336(1)006AS | 0.9 | 6 | | | | | | | | | | | | | | | |
| 39.0 | B | 5,10,20 | T110B396(1)006AS | 0.9 | 6 | | | | | | | | | | | | | | | |
| 47.0 | B | 5 | T110B476J006AS | 1.5 | 6 | 5003 | 5203 | 5403 | 5603 | 6006 | 7006 | 8006 | T212B476J006(2)S | | | | | | | |
| 47.0 | B | 10 | T110B476K006AS | 1.5 | 6 | 2244 | 2484 | 2724 | 2964 | 6007 | 7007 | 8007 | T212B476K006(2)S | | | | | | | |
| 47.0 | B | 20 | T110B476M006AS | 1.5 | 6 | 2245 | 2485 | 2725 | 2965 | 6008 | 7008 | 8008 | T212B476M006(2)S | | | | | | | |
| 56.0 | B | 5 | T110B566J006AS | 1.5 | 6 | 5004 | 5204 | 5404 | 5604 | 6009 | 7009 | 8009 | T212B566J006(2)S | | | | | | | |
| 56.0 | B | 10 | T110B566K006AS | 1.5 | 6 | 2246 | 2486 | 2726 | 2966 | 6010 | 7010 | 8010 | T212B566K006(2)S | | | | | | | |
| 56.0 | B | 20 | T110B566M006AS | 1.5 | 6 | | | | | | | | | | | | | | | |
| 68.0 | C | 5,10,20 | T110C686(1)006AS | 3.0 | 6 | | | | | | | | | | | | | | | |
| 82.0 | C | 5,10,20 | T110C826(1)006AS | 3.0 | 6 | | | | | | | | | | | | | | | |
| 100.0 | C | 5,10,20 | T110C107(1)006AS | 3.0 | 6 | | | | | | | | | | | | | | | |
| 120.0 | C | 5,10,20 | T110C127(1)006AS | 3.0 | 6 | | | | | | | | | | | | | | | |
| 150.0 | C | 5 | T110C157J006AS | 4.5 | 6 | 5005 | 5205 | 5405 | 5605 | 6011 | 7011 | 8011 | T212C157J006(2)S | | | | | | | |
| 150.0 | C | 10 | T110C157K006AS | 4.5 | 6 | 2247 | 2487 | 2727 | 2967 | 6012 | 7012 | 8012 | T212C157K006(2)S | | | | | | | |
| 150.0 | C | 20 | T110C157M006AS | 4.5 | 6 | 2248 | 2488 | 2728 | 2968 | 6013 | 7013 | 8013 | T212C157M006(2)S | | | | | | | |
| 180.0 | C | 5 | T110C187J006AS | 5.5 | 6 | 5006 | 5206 | 5406 | 5606 | 6014 | 7014 | 8014 | T212C187J006(2)S | | | | | | | |
| 180.0 | C | 10 | T110C187K006AS | 5.5 | 6 | 2249 | 2489 | 2729 | 2969 | 6015 | 7015 | 8015 | T212C187K006(2)S | | | | | | | |
| 180.0 | C | 20 | T110C187M006AS | 5.5 | 6 | | | | | | | | | | | | | | | |
| 220.0 | D | 5,10,20 | T110D227(1)006AS | 6.0 | 8 | | | | | | | | | | | | | | | |
| 270.0 | D | 5 | T110D277J006AS | 6.0 | 8 | 5007 | 5207 | 5407 | 5607 | 6016 | 7016 | 8016 | T212D277J006(2)S | | | | | | | |
| 270.0 | D | 10 | T110D277K006AS | 6.0 | 8 | 2250 | 2490 | 2730 | 2970 | 6017 | 7017 | 8017 | T212D277K006(2)S | | | | | | | |
| 270.0 | D | 20 | T110D277M006AS | 6.0 | 8 | | | | | | | | | | | | | | | |
| 330.0 | D | 5 | T110D337J006AS | 7.5 | 8 | 5008 | 5208 | 5408 | 5608 | 6018 | 7018 | 8018 | T212D337J006(2)S | | | | | | | |
| 330.0 | D | 10 | T110D337K006AS | 7.5 | 8 | 2251 | 2491 | 2731 | 2971 | 6019 | 7019 | 8019 | T212D337K006(2)S | | | | | | | |
| 330.0 | D | 20 | T110D337M006AS | 7.5 | 8 | 2252 | 2492 | 2732 | 2972 | 6020 | 7020 | 8020 | T212D337M006(2)S | | | | | | | |
| 10 VOLT RATING AT 85°C — 7 VOLT RATING AT 125°C | | | | | | | | | | | | | | | | | | | | |
| 1.0 | A | 5,10,20 | T110A105(1)010AS | 0.3 | 3 | | | | | | | | | | | | | | | |
| 1.2 | A | 5,10,20 | T110A125(1)010AS | 0.3 | 4 | | | | | | | | | | | | | | | |
| 1.5 | A | 5,10,20 | T110A155(1)010AS | 0.3 | 4 | | | | | | | | | | | | | | | |
| 1.8 | A | 5,10,20 | T110A185(1)010AS | 0.3 | 4 | | | | | | | | | | | | | | | |
| 2.2 | A | 5,10,20 | T110A225(1)010AS | 0.3 | 4 | | | | | | | | | | | | | | | |
| 2.7 | A | 5,10,20 | T110A275(1)010AS | 0.3 | 4 | | | | | | | | | | | | | | | |
| 3.3 | A | 5,10,20 | T110A335(1)010AS | 0.3 | 4 | | | | | | | | | | | | | | | |
| 3.9 | A | 5 | T110A395J 010AS | 0.3 | 4 | 5009 | 5209 | 5409 | 5609 | 6021 | 7021 | 8021 | T212A395J010(2)S | | | | | | | |
| 3.9 | A | 10 | T110A395K 010AS | 0.3 | 4 | 2253 | 2493 | 2733 | 2973 | 6022 | 7022 | 8022 | T212A395K010(2)S | | | | | | | |
| 3.9 | A | 20 | T110A395M 010AS | 0.3 | 4 | | | | | | | | | | | | | | | |
| 4.7 | A | 5 | T110A475J 010AS | 0.4 | 4 | 5010 | 5210 | 5410 | 5610 | 6023 | 7023 | 8023 | T212A475J010(2)S | | | | | | | |
| 4.7 | A | 10 | T110A475K 010AS | 0.4 | 4 | 2254 | 2494 | 2734 | 2974 | 6024 | 7024 | 8024 | T212A475K010(2)S | | | | | | | |
| 4.7 | A | 20 | T110A475M010AS | 0.4 | 4 | 2255 | 2495 | 2735 | 2975 | 6025 | 7025 | 8025 | T212A475M010(2)S | | | | | | | |

(1) To complete T110 Series Part Number, insert Capacitance Tolerance Symbol in the 9th Character as shown on Page 6.

(2) To complete the T212 Series Part Number, insert Failure Rate Symbol in the 13th Character.

Bold Face lines indicate popular part types and values.

RATINGS & PART NUMBER REFERENCE

| CAPACITANCE µF | CASE SIZE | CAPACITANCE TOLERANCE ±% | KEMET T110 | | | MIL-PRF-39003 (CSR13) CAPACITORS | | | | | | | | | | | |
|---|--------------|--------------------------------|-----------------------|------------------------------------|---|---|-------------|-------------|--------------|----------------------------|-------------|--------------|--|--|--|--|--|
| | | | KEMET PART NUMBER | D.C. LEAKAGE µA@25°C MAX. | MAX. DISSIPATION FACTOR %@25°C, 120Hz | DASH NUMBER REFERENCE FAILURE RATE LEVEL (%/1000 HRS.) | | | | | | | KEMET EQUIVALENT MILITARY PART NUMBER | | | | |
| | | | | | | MIL-PRF-39003/1H EXPONENTIAL | | | | MIL-PRF-39003/1H GRADED | | | | | | | |
| | | | | | | M (1.0) | P (0.1) | R (0.01) | S (0.001) | B (0.1) | C (0.01) | D (0.001) | | | | | |
| 10 VOLT RATING AT 85°C — 7 VOLT RATING AT 125°C (Cont'd) | | | | | | | | | | | | | | | | | |
| 5.6 | B | 5,10,20 | T110B565(1)010AS | 0.4 | 4 | | | | | | | | | | | | |
| 6.8 | B | 5,10,20 | T110B685(1)010AS | 1.0 | 6 | | | | | | | | | | | | |
| 8.2 | B | 5,10,20 | T110B825(1)010AS | 1.0 | 6 | | | | | | | | | | | | |
| 10.0 | B | 5,10,20 | T110B106(1)010AS | 1.0 | 6 | | | | | | | | | | | | |
| 12.0 | B | 5,10,20 | T110B126(1)010AS | 1.0 | 6 | | | | | | | | | | | | |
| 15.0 | B | 5,10,20 | T110B156(1)010AS | 1.0 | 6 | | | | | | | | | | | | |
| 18.0 | B | 5,10,20 | T110B186(1)010AS | 1.0 | 6 | | | | | | | | | | | | |
| 22.0 | B | 5,10,20 | T110B226(1)010AS | 2.0 | 6 | | | | | | | | | | | | |
| 27.0 | B | 5 | T110B276J010AS | 2.0 | 6 | 5011 | 5211 | 5411 | 5611 | 6026 | 7026 | 8026 | T212B276J010(2)S | | | | |
| 27.0 | B | 10 | T110B276K010AS | 2.0 | 6 | 2256 | 2496 | 2736 | 2976 | 6027 | 7027 | 8027 | T212B276K010(2)S | | | | |
| 27.0 | B | 20 | T110B276M010AS | 2.0 | 6 | | | | | | | | | | | | |
| 33.0 | B | 5 | T110B336J010AS | 2.0 | 6 | 5012 | 5212 | 5412 | 5612 | 6028 | 7028 | 8028 | T212B336J010(2)S | | | | |
| 33.0 | B | 10 | T110B336K010AS | 2.0 | 6 | 2257 | 2497 | 2737 | 2977 | 6029 | 7029 | 8029 | T212B336K010(2)S | | | | |
| 33.0 | B | 20 | T110B336M010AS | 2.0 | 6 | 2258 | 2498 | 2738 | 2978 | 6030 | 7030 | 8030 | T212B336M010(2)S | | | | |
| 39.0 | B | 5 | T110B396J010AS | 2.0 | 6 | 5013 | 5213 | 5413 | 5613 | 6031 | 7031 | 8031 | T212B396J010(2)S | | | | |
| 39.0 | B | 10 | T110B396K010AS | 2.0 | 6 | 2259 | 2499 | 2739 | 2979 | 6032 | 7032 | 8032 | T212B396K010(2)S | | | | |
| 39.0 | B | 20 | T110B396M010AS | 2.0 | 6 | | | | | | | | | | | | |
| 47.0 | C | 5,10,20 | T110C476(1)010AS | 3.0 | 6 | | | | | | | | | | | | |
| 56.0 | C | 5,10,20 | T110C566(1)010AS | 3.0 | 6 | | | | | | | | | | | | |
| 68.0 | C | 5,10,20 | T110C686(1)010AS | 3.0 | 6 | | | | | | | | | | | | |
| 82.0 | C | 5 | T110C826J010AS | 3.0 | 6 | 5014 | 5214 | 5414 | 5614 | 6033 | 7033 | 8033 | T212C826J010(2)S | | | | |
| 82.0 | C | 10 | T110C826K010AS | 3.0 | 6 | 2260 | 2500 | 2740 | 2980 | 6034 | 7034 | 8034 | T212C826K010(2)S | | | | |
| 82.0 | C | 20 | T110C826M010AS | 3.0 | 6 | | | | | | | | | | | | |
| 100.0 | C | 5 | T110C107J010AS | 5.0 | 6 | 5015 | 5215 | 5415 | 5615 | 6035 | 7035 | 8035 | T212C107J010(2)S | | | | |
| 100.0 | C | 10 | T110C107K010AS | 5.0 | 6 | 2261 | 2501 | 2741 | 2981 | 6036 | 7036 | 8036 | T212C107K010(2)S | | | | |
| 100.0 | C | 20 | T110C107M010AS | 5.0 | 6 | 2262 | 2502 | 2742 | 2982 | 6037 | 7037 | 8037 | T212C107M010(2)S | | | | |
| 120.0 | C | 5 | T110C127J010AS | 6.0 | 6 | 5016 | 5216 | 5416 | 5616 | 6038 | 7038 | 8038 | T212C127J010(2)S | | | | |
| 120.0 | C | 10 | T110C127K010AS | 6.0 | 6 | 2263 | 2503 | 2743 | 2983 | 6039 | 7039 | 8039 | T212C127K010(2)S | | | | |
| 120.0 | C | 20 | T110C127M010AS | 6.0 | 6 | | | | | | | | | | | | |
| 150.0 | D | 5,10,20 | T110D157(1)010AS | 9.0 | 6 | | | | | | | | | | | | |
| 180.0 | D | 5 | T110D187J010AS | 9.0 | 6 | 5017 | 5217 | 5417 | 5617 | 6040 | 7040 | 8040 | T212D187J010(2)S | | | | |
| 180.0 | D | 10 | T110D187K010AS | 9.0 | 6 | 2264 | 2504 | 2744 | 2984 | 6041 | 7041 | 8041 | T212D187K010(2)S | | | | |
| 180.0 | D | 20 | T110D187M010AS | 9.0 | 6 | | | | | | | | | | | | |
| 220.0 | D | 5 | T110D227J010AS | 10.0 | 8 | 5018 | 5218 | 5418 | 5618 | 6042 | 7042 | 8042 | T212D227J010(2)S | | | | |
| 220.0 | D | 10 | T110D227K010AS | 10.0 | 8 | 2265 | 2505 | 2745 | 2985 | 6043 | 7043 | 8043 | T212D227K010(2)S | | | | |
| 220.0 | D | 20 | T110D227M010AS | 10.0 | 8 | 2266 | 2506 | 2746 | 2986 | 6044 | 7044 | 8044 | T212D227M010(2)S | | | | |
| 15 VOLT RATING AT 85°C — 10 VOLT RATING AT 125°C | | | | | | | | | | | | | | | | | |
| 0.33 | A | 5,10,20 | T110A334(1)015AS | 0.3 | 3 | | | | | | | | | | | | |
| 0.39 | A | 5,10,20 | T110A394(1)015AS | 0.3 | 3 | | | | | | | | | | | | |
| 0.47 | A | 5,10,20 | T110A474(1)015AS | 0.3 | 3 | | | | | | | | | | | | |
| 0.56 | A | 5,10,20 | T110A564(1)015AS | 0.3 | 3 | | | | | | | | | | | | |
| 0.68 | A | 5,10,20 | T110A684(1)015AS | 0.3 | 3 | | | | | | | | | | | | |
| 0.82 | A | 5,10,20 | T110A824(1)015AS | 0.3 | 3 | | | | | | | | | | | | |
| 1.0 | A | 5,10,20 | T110A105(1)015AS | 0.3 | 3 | | | | | | | | | | | | |
| 1.2 | A | 5,10,20 | T110A125(1)015AS | 0.3 | 4 | | | | | | | | | | | | |
| 1.5 | A | 5,10,20 | T110A155(1)015AS | 0.3 | 4 | | | | | | | | | | | | |
| 1.8 | A | 5,10,20 | T110A185(1)015AS | 0.3 | 4 | | | | | | | | | | | | |
| 2.2 | A | 5,10,20 | T110A225(1)015AS | 0.3 | 4 | | | | | | | | | | | | |
| 2.7 | A | 5 | T110A275J015AS | 0.3 | 4 | 5019 | 5219 | 5419 | 5619 | 6045 | 7045 | 8045 | T212A275J015(2)S | | | | |
| 2.7 | A | 10 | T110A275K015AS | 0.3 | 4 | 2267 | 2507 | 2747 | 2987 | 6046 | 7046 | 8046 | T212A275K015(2)S | | | | |
| 2.7 | A | 20 | T110A275M015AS | 0.3 | 4 | | | | | | | | | | | | |
| 3.3 | A | 5 | T110A335J015AS | 0.4 | 4 | 5020 | 5220 | 5420 | 5620 | 6047 | 7047 | 8047 | T212A335J015(2)S | | | | |
| 3.3 | A | 10 | T110A335K015AS | 0.4 | 4 | 2268 | 2508 | 2748 | 2988 | 6048 | 7048 | 8048 | T212A335K015(2)S | | | | |
| 3.3 | A | 20 | T110A335M015AS | 0.4 | 4 | 2269 | 2509 | 2749 | 2989 | 6049 | 7049 | 8049 | T212A335M015(2)S | | | | |
| 3.9 | B | 5,10,20 | T110B395(1)015AS | 0.4 | 4 | | | | | | | | | | | | |
| 4.7 | B | 5,10,20 | T110B475(1)015AS | 0.7 | 4 | | | | | | | | | | | | |
| 5.6 | B | 5,10,20 | T110B565(1)015AS | 0.7 | 4 | | | | | | | | | | | | |

(1) To complete T110 Series Part Number, insert Capacitance Tolerance Symbol in the 9th Character as shown on Page 6.

(2) To complete the T212 Series Part Number, insert Failure Rate Symbol in the 13th Character.

Bold Face lines indicate popular part types and values.

RATINGS & PART NUMBER REFERENCE

| CAPACITANCE μF | CASE SIZE | CAPACITANCE TOLERANCE ±% | KEMET T110 | | | MIL-PRF-39003 (CSR13) CAPACITORS | | | | | | | KEMET EQUIVALENT MILITARY PART NUMBER |
|--|--------------|--------------------------------|-----------------------|------------------------------------|---|---|-------------|-------------|-------------|----------------------------|-------------|-------------|--|
| | | | KEMET PART NUMBER | D.C. LEAKAGE μA@25°C MAX. | MAX. DISSIPATION FACTOR %@25°C, 120Hz | DASH NUMBER REFERENCE FAILURE RATE LEVEL (%/1000 HRS.) | | | | | | | |
| | | | | | | MIL-PRF-39003/1H EXPONENTIAL | | | | MIL-PRF-39003/1H GRADED | | | |
| M | P | R | S | B | C | D | | | | | | | |
| (1.0) | (0.1) | (0.01) | (0.001) | (0.1) | (0.01) | (0.001) | | | | | | | |
| 15 VOLT RATING AT 85°C — 10 VOLT RATING AT 125°C (Cont'd) | | | | | | | | | | | | | |
| 6.8 | B | 5,10,20 | T110B685(1)015AS | 0.7 | 6 | | | | | | | | |
| 8.2 | B | 5,10,20 | T110B825(1)015AS | 0.7 | 6 | | | | | | | | |
| 10.0 | B | 5,10,20 | T110B106(1)015AS | 1.0 | 6 | | | | | | | | |
| 12.0 | B | 5,10,20 | T110B126(1)015AS | 1.0 | 6 | | | | | | | | |
| 15.0 | B | 5,10,20 | T110B156(1)015AS | 2.0 | 6 | | | | | | | | |
| 18.0 | B | 5 | T110B186J015AS | 2.0 | 6 | 5021 | 5221 | 5421 | 5621 | 6050 | 7050 | 8050 | T212B186J015(2)S |
| 18.0 | B | 10 | T110B186K015AS | 2.0 | 6 | 2270 | 2510 | 2750 | 2990 | 6051 | 7051 | 8051 | T212B186K015(2)S |
| 18.0 | B | 20 | T110B186M015AS | 2.0 | 6 | | | | | | | | |
| 22.0 | B | 5 | T110B226J015AS | 2.0 | 6 | 5022 | 5222 | 5422 | 5622 | 6052 | 7052 | 8052 | T212B226J015(2)S |
| 22.0 | B | 10 | T110B226K015AS | 2.0 | 6 | 2271 | 2511 | 2751 | 2991 | 6053 | 7053 | 8053 | T212B226K015(2)S |
| 22.0 | B | 20 | T110B226M015AS | 2.0 | 6 | 2272 | 2512 | 2752 | 2992 | 6054 | 7054 | 8054 | T212B226M015(2)S |
| 27.0 | C | 5,10,20 | T110C276(1)015AS | 3.0 | 6 | | | | | | | | |
| 33.0 | C | 5,10,20 | T110C336(1)015AS | 3.0 | 6 | | | | | | | | |
| 39.0 | C | 5,10,20 | T110C396(1)015AS | 3.0 | 6 | | | | | | | | |
| 47.0 | C | 5,10,20 | T110C476(1)015AS | 4.0 | 6 | | | | | | | | |
| 56.0 | C | 5 | T110C566J015AS | 4.0 | 6 | 5023 | 5223 | 5423 | 5623 | 6055 | 7055 | 8055 | T212C566J015(2)S |
| 56.0 | C | 10 | T110C566K015AS | 4.0 | 6 | 2273 | 2513 | 2753 | 2993 | 6056 | 7056 | 8056 | T212C566K015(2)S |
| 56.0 | C | 20 | T110C566M015AS | 4.0 | 6 | | | | | | | | |
| 68.0 | C | 5 | T110C686J015AS | 5.0 | 6 | 5024 | 5224 | 5424 | 5624 | 6057 | 7057 | 8057 | T212C686J015(2)S |
| 68.0 | C | 10 | T110C686K015AS | 5.0 | 6 | 2274 | 2514 | 2754 | 2994 | 6058 | 7058 | 8058 | T212C686K015(2)S |
| 68.0 | C | 20 | T110C686M015AS | 5.0 | 6 | 2275 | 2515 | 2755 | 2995 | 6059 | 7059 | 8059 | T212C686M015(2)S |
| 82.0 | D | 5,10,20 | T110D826(1)015AS | 6.0 | 6 | | | | | | | | |
| 100.0 | D | 5,10,20 | T110D107(1)015AS | 6.0 | 6 | | | | | | | | |
| 120.0 | D | 5 | T110D127J015AS | 6.0 | 6 | 5025 | 5225 | 5425 | 5625 | 6060 | 7060 | 8060 | T212D127J015(2)S |
| 120.0 | D | 10 | T110D127K015AS | 6.0 | 6 | 2276 | 2516 | 2756 | 2996 | 6061 | 7061 | 8061 | T212D127K015(2)S |
| 120.0 | D | 20 | T110D127M015AS | 6.0 | 6 | | | | | | | | |
| 150.0 | D | 5 | T110D157J015AS | 8.0 | 6 | 5026 | 5226 | 5426 | 5626 | 6062 | 7062 | 8062 | T212D157J015(2)S |
| 150.0 | D | 10 | T110D157K015AS | 8.0 | 6 | 2277 | 2517 | 2757 | 2997 | 6063 | 7063 | 8063 | T212D157K015(2)S |
| 150.0 | D | 20 | T110D157M015AS | 8.0 | 6 | 2278 | 2518 | 2758 | 2998 | 6064 | 7064 | 8064 | T212D157M015(2)S |
| 20 VOLT RATING AT 85°C — 13 VOLT RATING AT 125°C | | | | | | | | | | | | | |
| 0.047 | A | 5,10,20 | T110A473(1)020AS | 0.1 | 3 | | | | | | | | |
| 0.056 | A | 5,10,20 | T110A563(1)020AS | 0.1 | 3 | | | | | | | | |
| 0.068 | A | 5,10,20 | T110A683(1)020AS | 0.1 | 3 | | | | | | | | |
| 0.082 | A | 5,10,20 | T110A823(1)020AS | 0.1 | 3 | | | | | | | | |
| 0.1 | A | 5,10,20 | T110A104(1)020AS | 0.3 | 3 | | | | | | | | |
| 0.12 | A | 5,10,20 | T110A124(1)020AS | 0.3 | 3 | | | | | | | | |
| 0.15 | A | 5,10,20 | T110A154(1)020AS | 0.3 | 3 | | | | | | | | |
| 0.18 | A | 5,10,20 | T110A184(1)020AS | 0.3 | 3 | | | | | | | | |
| 0.22 | A | 5,10,20 | T110A224(1)020AS | 0.3 | 3 | | | | | | | | |
| 0.27 | A | 5,10,20 | T110A274(1)020AS | 0.3 | 3 | | | | | | | | |
| 0.33 | A | 5,10,20 | T110A334(1)020AS | 0.3 | 3 | | | | | | | | |
| 0.39 | A | 5,10,20 | T110A394(1)020AS | 0.3 | 3 | | | | | | | | |
| 0.47 | A | 5,10,20 | T110A474(1)020AS | 0.3 | 3 | | | | | | | | |
| 0.56 | A | 5,10,20 | T110A564(1)020AS | 0.3 | 3 | | | | | | | | |
| 0.68 | A | 5,10,20 | T110A684(1)020AS | 0.3 | 3 | | | | | | | | |
| 0.82 | A | 5,10,20 | T110A824(1)020AS | 0.3 | 3 | | | | | | | | |
| 1.0 | A | 5,10,20 | T110A105(1)020AS | 0.3 | 3 | | | | | | | | |
| 1.2 | A | 5 | T110A125J020AS | 0.3 | 4 | 5027 | 5227 | 5427 | 5627 | 6065 | 7065 | 8065 | T212A125J020(2)S |
| 1.2 | A | 10 | T110A125K020AS | 0.3 | 4 | 2279 | 2519 | 2759 | 2999 | 6066 | 7066 | 8066 | T212A125K020(2)S |
| 1.2 | A | 20 | T110A125M020AS | 0.3 | 4 | | | | | | | | |
| 1.5 | A | 5 | T110A155J020AS | 0.3 | 4 | 5028 | 5228 | 5428 | 5628 | 6067 | 7067 | 8067 | T212A155J020(2)S |
| 1.5 | A | 10 | T110A155K020AS | 0.3 | 4 | 2280 | 2520 | 2760 | 3000 | 6068 | 7068 | 8068 | T212A155K020(2)S |
| 1.5 | A | 20 | T110A155M020AS | 0.3 | 4 | 2281 | 2521 | 2761 | 3001 | 6069 | 7069 | 8069 | T212A155M020(2)S |
| 1.8 | A | 5 | T110A185J020AS | 0.3 | 4 | 5029 | 5229 | 5429 | 5629 | 6070 | 7070 | 8070 | T212A185J020(2)S |
| 1.8 | A | 10 | T110A185K020AS | 0.3 | 4 | 2282 | 2522 | 2762 | 3002 | 6071 | 7071 | 8071 | T212A185K020(2)S |
| 1.8 | A | 20 | T110A185M020AS | 0.3 | 4 | | | | | | | | |
| 2.2 | A | 5 | T110A225J020AS | 0.4 | 4 | 5010 | 5230 | 5430 | 5630 | 6072 | 7072 | 8072 | T212A225J020(2)S |
| 2.2 | A | 10 | T110A225K020AS | 0.4 | 4 | 2283 | 2523 | 2763 | 3003 | 6073 | 7073 | 8073 | T212A225K020(2)S |
| 2.2 | A | 20 | T110A225M020AS | 0.4 | 4 | 2284 | 2524 | 2764 | 3004 | 6074 | 7074 | 8074 | T212A225M020(2)S |

(1) To complete T110 Series Part Number, insert Capacitance Tolerance Symbol in the 9th Character as shown on Page 6.
 (2) To complete the T212 Series Part Number, insert Failure Rate Symbol in the 13th Character.
Bold Face lines indicate popular part types and values.

T110/T212 Series Tantalum
Hermetically Sealed

RATINGS & PART NUMBER REFERENCE

| CAPACITANCE µF | CASE SIZE | CAPACITANCE TOLERANCE ±% | KEMET T110 | | | MIL-PRF-39003 (CSR13) CAPACITORS | | | | | | | KEMET EQUIVALENT MILITARY PART NUMBER | |
|--|--------------|--------------------------------|-----------------------|------------------------------------|---|---|-------------|-------------|--------------|----------------------------|-------------|--------------|--|--|
| | | | KEMET PART NUMBER | D.C. LEAKAGE µA@25°C MAX. | MAX. DISSIPATION FACTOR %@25°C, 120Hz | DASH NUMBER REFERENCE FAILURE RATE LEVEL (%/1000 HRS.) | | | | | | | | |
| | | | | | | MIL-PRF-39003/1H EXPONENTIAL | | | | MIL-PRF-39003/1H GRADED | | | | |
| | | | | | | M (1.0) | P (0.1) | R (0.01) | S (0.001) | B (0.1) | C (0.01) | D (0.001) | | |
| 20 VOLT RATING AT 85°C — 13 VOLT RATING AT 125°C (Cont'd) | | | | | | | | | | | | | | |
| 2.7 | B | 5,10,20 | T110B275(1)020AS | 0.5 | 4 | | | | | | | | | |
| 3.3 | B | 5,10,20 | T110B335(1)020AS | 1.0 | 4 | | | | | | | | | |
| 3.9 | B | 5,10,20 | T110B395(1)020AS | 1.0 | 4 | | | | | | | | | |
| 4.7 | B | 5,10,20 | T110B475(1)020AS | 1.0 | 4 | | | | | | | | | |
| 5.6 | B | 5,10,20 | T110B565(1)020AS | 1.0 | 4 | | | | | | | | | |
| 6.8 | B | 5,10,20 | T110B685(1)020AS | 1.0 | 4 | | | | | | | | | |
| 8.2 | B | 5 | T110B825J020AS | 1.0 | 6 | 5031 | 5231 | 5431 | 5631 | 6075 | 7075 | 8075 | T212B825J020(2)S | |
| 8.2 | B | 10 | T110B825K020AS | 1.0 | 6 | 2285 | 2525 | 2765 | 3005 | 6076 | 7076 | 8076 | T212B825K020(2)S | |
| 8.2 | B | 20 | T110B825M020AS | 1.0 | 6 | | | | | | | | | |
| 10.0 | B | 5 | T110B106J020AS | 1.0 | 6 | 5032 | 5232 | 5432 | 5632 | 6077 | 7077 | 8077 | T212B106J020(2)S | |
| 10.0 | B | 10 | T110B106K020AS | 1.0 | 6 | 2286 | 2526 | 2766 | 3006 | 6078 | 7078 | 8078 | T212B106K020(2)S | |
| 10.0 | B | 20 | T110B106M020AS | 1.0 | 6 | 2287 | 2527 | 2767 | 3007 | 6079 | 7079 | 8079 | T212B106M020(2)S | |
| 12.0 | B | 5 | T110B126J020AS | 1.0 | 6 | 5033 | 5233 | 5433 | 5633 | 6080 | 7080 | 8080 | T212B126J020(2)S | |
| 12.0 | B | 10 | T110B126K020AS | 1.0 | 6 | 2288 | 2528 | 2768 | 3008 | 6081 | 7081 | 8081 | T212B126K020(2)S | |
| 12.0 | B | 20 | T110B126M020AS | 1.0 | 6 | | | | | | | | | |
| 15.0 | B | 5 | T110B156J020AS | 2.0 | 6 | 5034 | 5234 | 5434 | 5634 | 6082 | 7082 | 8082 | T212B156J020(2)S | |
| 15.0 | B | 10 | T110B156K020AS | 2.0 | 6 | 2289 | 2529 | 2769 | 3009 | 6083 | 7083 | 8083 | T212B156K020(2)S | |
| 15.0 | B | 20 | T110B156M020AS | 2.0 | 6 | 2290 | 2530 | 2770 | 3010 | 6084 | 7084 | 8084 | T212B156M020(2)S | |
| 18.0 | C | 5,10,20 | T110C186(1)020AS | 2.0 | 6 | | | | | | | | | |
| 22.0 | C | 5,10,20 | T110C226(1)020AS | 2.5 | 6 | | | | | | | | | |
| 27.0 | C | 5 | T110C276J020AS | 2.5 | 6 | 5035 | 5235 | 5435 | 5635 | 6085 | 7085 | 8085 | T212C276J020(2)S | |
| 27.0 | C | 10 | T110C276K020AS | 2.5 | 6 | 2291 | 2531 | 2771 | 3011 | 6086 | 7086 | 8086 | T212C276K020(2)S | |
| 27.0 | C | 20 | T110C276M020AS | 2.5 | 6 | | | | | | | | | |
| 33.0 | C | 5 | T110C336J020AS | 3.0 | 6 | 5036 | 5236 | 5436 | 5636 | 6087 | 7087 | 8087 | T212C336J020(2)S | |
| 33.0 | C | 10 | T110C336K020AS | 3.0 | 6 | 2292 | 2532 | 2772 | 3012 | 6088 | 7088 | 8088 | T212C336K020(2)S | |
| 33.0 | C | 20 | T110C336M020AS | 3.0 | 6 | 2293 | 2533 | 2773 | 3013 | 6089 | 7089 | 8089 | T212C336M020(2)S | |
| 39.0 | C | 5 | T110C396J020AS | 3.0 | 6 | 5037 | 5237 | 5437 | 5637 | 6090 | 7090 | 8090 | T212C396J020(2)S | |
| 39.0 | C | 10 | T110C396K020AS | 3.0 | 6 | 2294 | 2534 | 2774 | 3014 | 6091 | 7091 | 8091 | T212C396K020(2)S | |
| 39.0 | C | 20 | T110C396M020AS | 3.0 | 6 | | | | | | | | | |
| 47.0 | C | 5 | T110C476J020AS | 4.5 | 6 | 5038 | 5238 | 5438 | 5638 | 6092 | 7092 | 8092 | T212C476J020(2)S | |
| 47.0 | C | 10 | T110C476K020AS | 4.5 | 6 | 2295 | 2535 | 2775 | 3015 | 6093 | 7093 | 8093 | T212C476K020(2)S | |
| 47.0 | C | 20 | T110C476M020AS | 4.5 | 6 | 2296 | 2536 | 2776 | 3016 | 6094 | 7094 | 8094 | T212C476M020(2)S | |
| 56.0 | D | 5 | T110D566J020AS | 5.5 | 6 | 5039 | 5239 | 5439 | 5639 | 6095 | 7095 | 8095 | T212D566J020(2)S | |
| 56.0 | D | 10 | T110D566K020AS | 5.5 | 6 | 2297 | 2537 | 2777 | 3017 | 6096 | 7096 | 8096 | T212D566K020(2)S | |
| 56.0 | D | 20 | T110D566M020AS | 5.5 | 6 | | | | | | | | | |
| 68.0 | D | 5 | T110D686J020AS | 6.0 | 6 | 5040 | 5240 | 5440 | 5640 | 6097 | 7097 | 8097 | T212D686J020(2)S | |
| 68.0 | D | 10 | T110D686K020AS | 6.0 | 6 | 2298 | 2538 | 2778 | 3018 | 6098 | 7098 | 8098 | T212D686K020(2)S | |
| 68.0 | D | 20 | T110D686M020AS | 6.0 | 6 | 2299 | 2539 | 2779 | 3019 | 6099 | 7099 | 8099 | T212D686M020(2)S | |
| 82.0 | D | 5 | T110D826J020AS | 6.0 | 6 | 5041 | 5241 | 5441 | 5641 | 6100 | 7100 | 8100 | T212D826J020(2)S | |
| 82.0 | D | 10 | T110D826K020AS | 6.0 | 6 | 2300 | 2540 | 2780 | 3020 | 6101 | 7101 | 8101 | T212D826K020(2)S | |
| 82.0 | D | 20 | T110D826M020AS | 6.0 | 6 | | | | | | | | | |
| 100.0 | D | 5 | T110D107J020AS | 10.0 | 6 | 5042 | 5242 | 5442 | 5642 | 6102 | 7102 | 8102 | T212D107J020(2)S | |
| 100.0 | D | 10 | T110D107K020AS | 10.0 | 6 | 2301 | 2541 | 2781 | 3021 | 6103 | 7103 | 8103 | T212D107K020(2)S | |
| 100.0 | D | 20 | T110D107M020AS | 10.0 | 6 | 2302 | 2542 | 2782 | 3022 | 6104 | 7104 | 8104 | T212D107M020(2)S | |
| 35 VOLT RATING AT 85°C — 23 VOLT RATING AT 125°C | | | | | | | | | | | | | | |
| 0.0047 | A | 5,10,20 | T110A472(1)035AS | 0.1 | 3 | | | | | | | | | |
| 0.0056 | A | 5,10,20 | T110A562(1)035AS | 0.1 | 3 | | | | | | | | | |
| 0.0068 | A | 5,10,20 | T110A682(1)035AS | 0.1 | 3 | | | | | | | | | |
| 0.0082 | A | 5,10,20 | T110A822(1)035AS | 0.1 | 3 | | | | | | | | | |
| 0.01 | A | 5,10,20 | T110A103(1)035AS | 0.1 | 3 | | | | | | | | | |
| 0.012 | A | 5,10,20 | T110A123(1)035AS | 0.1 | 3 | | | | | | | | | |
| 0.015 | A | 5,10,20 | T110A153(1)035AS | 0.1 | 3 | | | | | | | | | |
| 0.018 | A | 5,10,20 | T110A183(1)035AS | 0.1 | 3 | | | | | | | | | |
| 0.022 | A | 5,10,20 | T110A223(1)035AS | 0.1 | 3 | | | | | | | | | |
| 0.027 | A | 5,10,20 | T110A273(1)035AS | 0.1 | 3 | | | | | | | | | |
| 0.033 | A | 5,10,20 | T110A333(1)035AS | 0.1 | 3 | | | | | | | | | |
| 0.039 | A | 5,10,20 | T110A393(1)035AS | 0.1 | 3 | | | | | | | | | |
| 0.047 | A | 5,10,20 | T110A473(1)035AS | 0.1 | 3 | | | | | | | | | |
| 0.056 | A | 5,10,20 | T110A563(1)035AS | 0.1 | 3 | | | | | | | | | |

(1) To complete T110 Series part number, insert Capacitance Tolerance Symbol in the 9th Character as shown on Page 6.

(2) To complete the T212 Series Part Number, insert Failure Rate Symbol in the 13th Character.

Bold Face lines indicate popular part types and values.



RATINGS & PART NUMBER REFERENCE

T110/T212 Series Tantalum
Hermetically Sealed

| CAPACITANCE μF | CASE SIZE | CAPACITANCE TOLERANCE ±% | KEMET T110 | | | MIL-PRF-39003 (CSR13) CAPACITORS | | | | | | | | KEMET EQUIVALENT MILITARY PART NUMBER |
|---|--------------|--------------------------------|-------------------------|------------------------------------|---|---|-------------|-------------|--------------|----------------------------|-------------|--------------|-------------------------|--|
| | | | KEMET PART NUMBER | D.C. LEAKAGE μA@25°C MAX. | MAX. DISSIPATION FACTOR %@25°C, 120Hz | DASH NUMBER REFERENCE FAILURE RATE LEVEL (%/1000 HRS.) | | | | | | | | |
| | | | | | | MIL-PRF-39003/1H EXPONENTIAL | | | | MIL-PRF-39003/1H GRADED | | | | |
| | | | | | | M (1.0) | P (0.1) | R (0.01) | S (0.001) | B (0.1) | C (0.01) | D (0.001) | | |
| 35 VOLT RATING AT 85°C — 23 VOLT RATING AT 125° (Cont'd) | | | | | | | | | | | | | | |
| 0.068 | A | 5,10,20 | T110A683(1)035AS | 0.1 | 3 | | | | | | | | | |
| 0.082 | A | 5,10,20 | T110A823(1)035AS | 0.1 | 3 | | | | | | | | | |
| 0.1 | A | 5,10,20 | T110A104(1)035AS | 0.5 | 3 | | | | | | | | | |
| 0.12 | A | 5,10,20 | T110A124(1)035AS | 0.5 | 3 | | | | | | | | | |
| 0.15 | A | 5,10,20 | T110A154(1)035AS | 0.5 | 3 | | | | | | | | | |
| 0.18 | A | 5,10,20 | T110A184(1)035AS | 0.5 | 3 | | | | | | | | | |
| 0.22 | A | 5,10,20 | T110A224(1)035AS | 0.5 | 3 | | | | | | | | | |
| 0.27 | A | 5,10,20 | T110A274(1)035AS | 0.5 | 3 | | | | | | | | | |
| 0.33 | A | 5,10,20 | T110A334(1)035AS | 0.5 | 3 | | | | | | | | | |
| 0.39 | A | 5,10,20 | T110A394(1)035AS | 0.5 | 3 | | | | | | | | | |
| 0.47 | A | 5,10,20 | T110A474(1)035AS | 0.5 | 3 | | | | | | | | | |
| 0.56 | A | 5,10,20 | T110A564(1)035AS | 0.5 | 3 | | | | | | | | | |
| 0.68 | A | 5,10,20 | T110A684(1)035AS | 0.5 | 3 | | | | | | | | | |
| 0.82 | A | 5,10,20 | T110A824(1)035AS | 0.5 | 3 | | | | | | | | | |
| 1.0 | A | 5,10,20 | T110A105(1)035AS | 0.5 | 3 | | | | | | | | | |
| 1.2 | B | 5,10,20 | T110B125(1)035AS | 0.5 | 4 | | | | | | | | | |
| 1.5 | B | 5,10,20 | T110B155(1)035AS | 0.5 | 4 | | | | | | | | | |
| 1.8 | B | 5,10,20 | T110B185(1)035AS | 0.5 | 4 | | | | | | | | | |
| 2.2 | B | 5,10,20 | T110B225(1)035AS | 1.0 | 4 | | | | | | | | | |
| 2.7 | B | 5,10,20 | T110B275(1)035AS | 1.0 | 4 | | | | | | | | | |
| 3.3 | B | 5,10,20 | T110B335(1)035AS | 1.0 | 4 | | | | | | | | | |
| 3.9 | B | 5,10,20 | T110B395(1)035AS | 1.0 | 4 | | | | | | | | | |
| 4.7 | B | 5,10,20 | T110B475(1)035AS | 1.0 | 4 | | | | | | | | | |
| 5.6 | B | 5 | T110B565J035AS | 1.0 | 4 | 5043 | 5243 | 5443 | 5643 | 6105 | 7105 | 8105 | T212B565J035(2)S | |
| 5.6 | B | 10 | T110B565K035AS | 1.0 | 4 | 2303 | 2543 | 2783 | 3023 | 6106 | 7106 | 8106 | T212B565K035(2)S | |
| 5.6 | B | 20 | T110B565M035AS | 1.0 | 4 | | | | | | | | | |
| 6.8 | B | 5 | T110B685J035AS | 1.5 | 4 | 5044 | 5244 | 5444 | 5644 | 6107 | 7107 | 8107 | T212B685J035(2)S | |
| 6.8 | B | 10 | T110B685K035AS | 1.5 | 4 | 2304 | 2544 | 2784 | 3024 | 6108 | 7108 | 8108 | T212B685K035(2)S | |
| 6.8 | B | 20 | T110B685M035AS | 1.5 | 4 | 2305 | 2545 | 2785 | 3025 | 6109 | 7109 | 8109 | T212B685M035(2)S | |
| 8.2 | C | 5,10,20 | T110C825(1)035AS | 3.0 | 4 | | | | | | | | | |
| 10.0 | C | 5,10,20 | T110C106(1)035AS | 3.0 | 4 | | | | | | | | | |
| 12.0 | C | 5,10,20 | T110C126(1)035AS | 3.0 | 4 | | | | | | | | | |
| 15.0 | C | 5,10,20 | T110C156(1)035AS | 3.0 | 4 | | | | | | | | | |
| 18.0 | C | 5,10,20 | T110C186(1)035AS | 3.0 | 4 | | | | | | | | | |
| 22.0 | C | 5 | T110C226J035AS | 4.0 | 4 | 5045 | 5245 | 5445 | 5645 | 6110 | 7110 | 8110 | T212C226J035(2)S | |
| 22.0 | C | 10 | T110C226K035AS | 4.0 | 4 | 2306 | 2546 | 2786 | 3026 | 6111 | 7111 | 8111 | T212C226K035(2)S | |
| 22.0 | C | 20 | T110C226M035AS | 4.0 | 4 | 2307 | 2547 | 2787 | 3027 | 6112 | 7112 | 8112 | T212C226M035(2)S | |
| 27.0 | D | 5 | T110D276J035AS | 4.5 | 4 | 5046 | 5246 | 5446 | 5646 | 6113 | 7113 | 8113 | T212D276J035(2)S | |
| 27.0 | D | 10 | T110D276K035AS | 4.5 | 4 | 2308 | 2548 | 2788 | 3028 | 6114 | 7114 | 8114 | T212D276K035(2)S | |
| 27.0 | D | 20 | T110D276M035AS | 4.5 | 4 | | | | | | | | | |
| 33.0 | D | 5 | T110D336J035AS | 5.5 | 4 | 5047 | 5247 | 5447 | 5647 | 6115 | 7115 | 8115 | T212D336J035(2)S | |
| 33.0 | D | 10 | T110D336K035AS | 5.5 | 4 | 2309 | 2549 | 2789 | 3029 | 6116 | 7116 | 8116 | T212D336K035(2)S | |
| 33.0 | D | 20 | T110D336M035AS | 5.5 | 4 | 2310 | 2550 | 2790 | 3030 | 6117 | 7117 | 8117 | T212D336M035(2)S | |
| 39.0 | D | 5 | T110D396J035AS | 6.0 | 4 | 5048 | 5248 | 5448 | 5648 | 6118 | 7118 | 8118 | T212D396J035(2)S | |
| 39.0 | D | 10 | T110D396K035AS | 6.0 | 4 | 2311 | 2551 | 2791 | 3031 | 6119 | 7119 | 8119 | T212D396K035(2)S | |
| 39.0 | D | 20 | T110D396M035AS | 6.0 | 4 | | | | | | | | | |
| 47.0 | D | 5 | T110D476J035AS | 8.0 | 4 | 5049 | 5249 | 5449 | 5649 | 6120 | 7120 | 8120 | T212D476J035(2)S | |
| 47.0 | D | 10 | T110D476K035AS | 8.0 | 4 | 2312 | 2552 | 2792 | 3032 | 6121 | 7121 | 8121 | T212D476K035(2)S | |
| 47.0 | D | 20 | T110D476M035AS | 8.0 | 4 | 2313 | 2553 | 2793 | 3033 | 6122 | 7122 | 8122 | T212D476M035(2)S | |
| 50 VOLT RATING AT 85°C — 33 VOLT RATING AT 125° | | | | | | | | | | | | | | |
| 0.0047 | A | 5 | T110A472J050AS | 0.1 | 2 | 5050 | 5250 | 5450 | 5650 | 6123 | 7123 | 8123 | T212A472J050(2)S | |
| 0.0047 | A | 10 | T110A472K050AS | 0.1 | 2 | 2314 | 2554 | 2794 | 3034 | 6124 | 7124 | 8124 | T212A472K050(2)S | |
| 0.0047 | A | 20 | T110A472M050AS | 0.1 | 2 | 2315 | 2555 | 2795 | 3035 | 6125 | 7125 | 8125 | T212A472M050(2)S | |
| 0.0056 | A | 5 | T110A562J050AS | 0.1 | 2 | 5051 | 5251 | 5451 | 5651 | 6126 | 7126 | 8126 | T212A562J050(2)S | |
| 0.0056 | A | 10 | T110A562K050AS | 0.1 | 2 | 2316 | 2556 | 2796 | 3036 | 6127 | 7127 | 8127 | T212A562K050(2)S | |
| 0.0056 | A | 20 | T110A562M050AS | 0.1 | 2 | | | | | | | | | |
| 0.0068 | A | 5 | T110A682J050AS | 0.1 | 2 | 5052 | 5252 | 5452 | 5652 | 6128 | 7128 | 8128 | T212A682J050(2)S | |
| 0.0068 | A | 10 | T110A682K050AS | 0.1 | 2 | 2317 | 2557 | 2797 | 3037 | 6129 | 7129 | 8129 | T212A682K050(2)S | |
| 0.0068 | A | 20 | T110A682M050AS | 0.1 | 2 | 2318 | 2558 | 2798 | 3038 | 6130 | 7130 | 8130 | T212A682M050(2)S | |

(1) To complete T110 Series Part Number, insert Capacitance Tolerance Symbol in the 9th Character as shown on Page 6.
 (2) To complete the T212 Series Part Number, insert Failure Rate Symbol in the 13th Character.
Bold Face lines indicate popular part types and values.

RATINGS & PART NUMBER REFERENCE

| CAPACITANCE μF | CASE SIZE | CAPACITANCE TOLERANCE ±% | KEMET T110 | | | MIL-PRF-39003 (CSR13) CAPACITORS | | | | | | | | KEMET EQUIVALENT MILITARY PART NUMBER |
|--|--------------|--------------------------------|----------------------|------------------------------------|---|---|------------|-------------|--------------|----------------------------|-------------|--------------|------------------|--|
| | | | KEMET PART NUMBER | D.C. LEAKAGE μA@25°C MAX. | MAX. DISSIPATION FACTOR %@25°C, 120Hz | DASH NUMBER REFERENCE FAILURE RATE LEVEL (%/1000 HRS.) | | | | | | | | |
| | | | | | | MIL-PRF-39003/1H EXPONENTIAL | | | | MIL-PRF-39003/1H GRADED | | | | |
| | | | | | | M (1.0) | P (0.1) | R (0.01) | S (0.001) | B (0.1) | C (0.01) | D (0.001) | | |
| 50 VOLT RATING AT 85°C — 33 VOLT RATING AT 125°C (Cont'd) | | | | | | | | | | | | | | |
| 0.0082 | A | 5 | T110A822J050AS | 0.1 | 2 | 5053 | 5253 | 5453 | 5653 | 6131 | 7131 | 8131 | T212A822J050(2)S | |
| 0.0082 | A | 10 | T110A822K050AS | 0.1 | 2 | 2319 | 2559 | 2799 | 3039 | 6132 | 7132 | 8132 | T212A822K050(2)S | |
| 0.0082 | A | 20 | T110A822M050AS | 0.1 | 2 | | | | | | | | | |
| 0.01 | A | 5 | T110A103J050AS | 0.1 | 2 | 5054 | 5254 | 5454 | 5654 | 6133 | 7133 | 8133 | T212A103J050(2)S | |
| 0.01 | A | 10 | T110A103K050AS | 0.1 | 2 | 2320 | 2560 | 2800 | 3040 | 6134 | 7134 | 8134 | T212A103K050(2)S | |
| 0.01 | A | 20 | T110A103M050AS | 0.1 | 2 | 2321 | 2561 | 2801 | 3041 | 6135 | 7135 | 8135 | T212A103M050(2)S | |
| 0.012 | A | 5 | T110A123J050AS | 0.1 | 2 | 5055 | 5255 | 5455 | 5655 | 6136 | 7136 | 8136 | T212A123J050(2)S | |
| 0.012 | A | 10 | T110A123K050AS | 0.1 | 2 | 2322 | 2562 | 2802 | 3042 | 6137 | 7137 | 8137 | T212A123K050(2)S | |
| 0.012 | A | 20 | T110A123M050AS | 0.1 | 2 | | | | | | | | | |
| 0.015 | A | 5 | T110A153J050AS | 0.1 | 2 | 5056 | 5256 | 5456 | 5656 | 6138 | 7138 | 8138 | T212A153J050(2)S | |
| 0.015 | A | 10 | T110A153K050AS | 0.1 | 2 | 2323 | 2563 | 2803 | 3043 | 6139 | 7139 | 8139 | T212A153K050(2)S | |
| 0.015 | A | 20 | T110A153M050AS | 0.1 | 2 | 2324 | 2564 | 2804 | 3044 | 6140 | 7140 | 8140 | T212A153M050(2)S | |
| 0.018 | A | 5 | T110A183J050AS | 0.1 | 2 | 5057 | 5257 | 5457 | 5657 | 6141 | 7141 | 8141 | T212A183J050(2)S | |
| 0.018 | A | 10 | T110A183K050AS | 0.1 | 2 | 2325 | 2565 | 2805 | 3045 | 6142 | 7142 | 8142 | T212A183K050(2)S | |
| 0.018 | A | 20 | T110A183M050AS | 0.1 | 2 | | | | | | | | | |
| 0.022 | A | 5 | T110A223J050AS | 0.1 | 2 | 5058 | 5258 | 5458 | 5658 | 6143 | 7143 | 8143 | T212A223J050(2)S | |
| 0.022 | A | 10 | T110A223K050AS | 0.1 | 2 | 2326 | 2566 | 2806 | 3046 | 6144 | 7144 | 8144 | T212A223K050(2)S | |
| 0.022 | A | 20 | T110A223M050AS | 0.1 | 2 | 2327 | 2567 | 2807 | 3047 | 6145 | 7145 | 8145 | T212A223M050(2)S | |
| 0.027 | A | 5 | T110A273J050AS | 0.1 | 2 | 5059 | 5259 | 5459 | 5659 | 6146 | 7146 | 8146 | T212A273J050(2)S | |
| 0.027 | A | 10 | T110A273K050AS | 0.1 | 2 | 2328 | 2568 | 2808 | 3048 | 6147 | 7147 | 8147 | T212A273K050(2)S | |
| 0.027 | A | 20 | T110A273M050AS | 0.1 | 2 | | | | | | | | | |
| 0.033 | A | 5 | T110A333J050AS | 0.1 | 2 | 5060 | 5260 | 5460 | 5660 | 6148 | 7148 | 8148 | T212A333J050(2)S | |
| 0.033 | A | 10 | T110A333K050AS | 0.1 | 2 | 2329 | 2569 | 2809 | 3049 | 6149 | 7149 | 8149 | T212A333K050(2)S | |
| 0.033 | A | 20 | T110A333M050AS | 0.1 | 2 | 2330 | 2570 | 2810 | 3050 | 6150 | 7150 | 8150 | T212A333M050(2)S | |
| 0.039 | A | 5 | T110A393J050AS | 0.1 | 2 | 5061 | 5261 | 5461 | 5661 | 6151 | 7151 | 8151 | T212A393J050(2)S | |
| 0.039 | A | 10 | T110A393K050AS | 0.1 | 2 | 2331 | 2571 | 2811 | 3051 | 6152 | 7152 | 8152 | T212A393K050(2)S | |
| 0.039 | A | 20 | T110A393M050AS | 0.1 | 2 | | | | | | | | | |
| 0.047 | A | 5 | T110A473J050AS | 0.1 | 2 | 5062 | 5262 | 5462 | 5662 | 6153 | 7153 | 8153 | T212A473J050(2)S | |
| 0.047 | A | 10 | T110A473K050AS | 0.1 | 2 | 2332 | 2572 | 2812 | 3052 | 6154 | 7154 | 8154 | T212A473K050(2)S | |
| 0.047 | A | 20 | T110A473M050AS | 0.1 | 2 | 2333 | 2573 | 2813 | 3053 | 6155 | 7155 | 8155 | T212A473M050(2)S | |
| 0.056 | A | 5 | T110A563J050AS | 0.1 | 2 | 5063 | 5263 | 5463 | 5663 | 6156 | 7156 | 8156 | T212A563J050(2)S | |
| 0.056 | A | 10 | T110A563K050AS | 0.1 | 2 | 2334 | 2574 | 2814 | 3054 | 6157 | 7157 | 8157 | T212A563K050(2)S | |
| 0.056 | A | 20 | T110A563M050AS | 0.1 | 2 | | | | | | | | | |
| 0.068 | A | 5 | T110A683J050AS | 0.1 | 2 | 5064 | 5264 | 5464 | 5664 | 6158 | 7158 | 8158 | T212A683J050(2)S | |
| 0.068 | A | 10 | T110A683K050AS | 0.1 | 2 | 2335 | 2575 | 2815 | 3055 | 6159 | 7159 | 8159 | T212A683K050(2)S | |
| 0.068 | A | 20 | T110A683M050AS | 0.1 | 2 | 2336 | 2576 | 2816 | 3056 | 6160 | 7160 | 8160 | T212A683M050(2)S | |
| 0.082 | A | 5 | T110A823J050AS | 0.1 | 2 | 5065 | 5265 | 5465 | 5665 | 6161 | 7161 | 8161 | T212A823J050(2)S | |
| 0.082 | A | 10 | T110A823K050AS | 0.1 | 2 | 2337 | 2577 | 2817 | 3057 | 6162 | 7162 | 8162 | T212A823K050(2)S | |
| 0.082 | A | 20 | T110A823M050AS | 0.1 | 2 | | | | | | | | | |
| 0.1 | A | 5 | T110A104J050AS | 0.3 | 2 | 5066 | 5266 | 5466 | 5666 | 6163 | 7163 | 8163 | T212A104J050(2)S | |
| 0.1 | A | 10 | T110A104K050AS | 0.3 | 2 | 2338 | 2578 | 2818 | 3058 | 6164 | 7164 | 8164 | T212A104K050(2)S | |
| 0.1 | A | 20 | T110A104M050AS | 0.3 | 2 | 2339 | 2579 | 2819 | 3059 | 6165 | 7165 | 8165 | T212A104M050(2)S | |
| 0.12 | A | 5 | T110A124J050AS | 0.3 | 2 | 5067 | 5267 | 5467 | 5667 | 6166 | 7166 | 8166 | T212A124J050(2)S | |
| 0.12 | A | 10 | T110A124K050AS | 0.3 | 2 | 2340 | 2580 | 2820 | 3060 | 6167 | 7167 | 8167 | T212A124K050(2)S | |
| 0.12 | A | 20 | T110A124M050AS | 0.3 | 2 | | | | | | | | | |
| 0.15 | A | 5 | T110A154J050AS | 0.3 | 2 | 5068 | 5268 | 5468 | 5668 | 6168 | 7168 | 8168 | T212A154J050(2)S | |
| 0.15 | A | 10 | T110A154K050AS | 0.3 | 2 | 2341 | 2581 | 2821 | 3061 | 6169 | 7169 | 8169 | T212A154K050(2)S | |
| 0.15 | A | 20 | T110A154M050AS | 0.3 | 2 | 2342 | 2582 | 2822 | 3062 | 6170 | 7170 | 8170 | T212A154M050(2)S | |
| 0.18 | A | 5 | T110A184J050AS | 0.3 | 2 | 5069 | 5269 | 5469 | 5669 | 6171 | 7171 | 8171 | T212A184J050(2)S | |
| 0.18 | A | 10 | T110A184K050AS | 0.3 | 2 | 2343 | 2583 | 2823 | 3063 | 6172 | 7172 | 8172 | T212A184K050(2)S | |
| 0.18 | A | 20 | T110A184M050AS | 0.3 | 2 | | | | | | | | | |
| 0.22 | A | 5 | T110A224J050AS | 0.3 | 2 | 5070 | 5270 | 5470 | 5670 | 6173 | 7173 | 8173 | T212A224J050(2)S | |
| 0.22 | A | 10 | T110A224K050AS | 0.3 | 2 | 2344 | 2584 | 2824 | 3064 | 6174 | 7174 | 8174 | T212A224K050(2)S | |
| 0.22 | A | 20 | T110A224M050AS | 0.3 | 2 | 2345 | 2585 | 2825 | 3065 | 6175 | 7175 | 8175 | T212A224M050(2)S | |
| 0.27 | A | 5 | T110A274J050AS | 0.3 | 2 | 5071 | 5271 | 5471 | 5671 | 6176 | 7176 | 8176 | T212A274J050(2)S | |
| 0.27 | A | 10 | T110A274K050AS | 0.3 | 2 | 2346 | 2586 | 2826 | 3066 | 6177 | 7177 | 8177 | T212A274K050(2)S | |
| 0.27 | A | 20 | T110A274M050AS | 0.3 | 2 | | | | | | | | | |
| 0.33 | A | 5 | T110A334J050AS | 0.3 | 2 | 5072 | 5272 | 5472 | 5672 | 6178 | 7178 | 8178 | T212A334J050(2)S | |
| 0.33 | A | 10 | T110A334K050AS | 0.3 | 2 | 2347 | 2587 | 2827 | 3067 | 6179 | 7179 | 8179 | T212A334K050(2)S | |
| 0.33 | A | 20 | T110A334M050AS | 0.3 | 2 | 2348 | 2588 | 2828 | 3068 | 6180 | 7180 | 8180 | T212A334M050(2)S | |
| 0.39 | A | 5 | T110A394J050AS | 0.3 | 2 | 5073 | 5273 | 5473 | 5673 | 6181 | 7181 | 8181 | T212A394J050(2)S | |

(1) To complete T110 Series part number, insert Capacitance Tolerance Symbol in the 9th Character as shown on Page 6.
(2) To complete the T212 Series Part Number, insert Failure Rate Symbol in the 13th Character.
Bold Face lines indicate popular part types and values.

RATINGS & PART NUMBER REFERENCE

| CAPACITANCE μF | CASE SIZE | CAPACITANCE TOLERANCE ±% | KEMET T110 | | | MIL-PRF-39003 (CSR13) CAPACITORS | | | | | | | | KEMET EQUIVALENT MILITARY PART NUMBER |
|---|--------------|--------------------------------|-----------------------|------------------------------------|---|---|-------------|-------------|--------------|----------------------------|-------------|--------------|-------------------------|--|
| | | | KEMET PART NUMBER | D.C. LEAKAGE μA@25°C MAX. | MAX. DISSIPATION FACTOR %@25°C, 120Hz | DASH NUMBER REFERENCE FAILURE RATE LEVEL (%/1000 HRS.) | | | | | | | | |
| | | | | | | MIL-PRF-39003/1H EXPONENTIAL | | | | MIL-PRF-39003/1H GRADED | | | | |
| | | | | | | M (1.0) | P (0.1) | R (0.01) | S (0.001) | B (0.1) | C (0.01) | D (0.001) | | |
| 50 VOLT RATING AT 85°C — 33 VOLT RATING AT 125°C (Cont'd) | | | | | | | | | | | | | | |
| 0.39 | A | 10 | T110A394K050AS | 0.3 | 2 | 2349 | 2589 | 2829 | 3069 | 6182 | 7182 | 8182 | T212A394K050(2)S | |
| 0.39 | A | 20 | T110A394M050AS | 0.3 | 2 | | | | | | | | | |
| 0.47 | A | 5 | T110A474J050AS | 0.3 | 2 | 5074 | 5274 | 5474 | 5674 | 6183 | 7183 | 8183 | T212A474J050(2)S | |
| 0.47 | A | 10 | T110A474K050AS | 0.3 | 2 | 2350 | 2590 | 2830 | 3070 | 6184 | 7184 | 8184 | T212A474K050(2)S | |
| 0.47 | A | 20 | T110A474M050AS | 0.3 | 2 | 2351 | 2591 | 2831 | 3071 | 6185 | 7185 | 8185 | T212A474M050(2)S | |
| 0.56 | A | 5 | T110A564J050AS | 0.3 | 2 | 5075 | 5275 | 5475 | 5675 | 6186 | 7186 | 8186 | T212A564J050(2)S | |
| 0.56 | A | 10 | T110A564K050AS | 0.3 | 2 | 2352 | 2592 | 2832 | 3072 | 6187 | 7187 | 8187 | T212A564K050(2)S | |
| 0.56 | A | 20 | T110A564M050AS | 0.3 | 2 | | | | | | | | | |
| 0.68 | A | 5 | T110A684J050AS | 0.3 | 2 | 5076 | 5276 | 5476 | 5676 | 6188 | 7188 | 8188 | T212A684J050(2)S | |
| 0.68 | A | 10 | T110A684K050AS | 0.3 | 2 | 2353 | 2593 | 2833 | 3073 | 6189 | 7189 | 8189 | T212A684K050(2)S | |
| 0.68 | A | 20 | T110A684M050AS | 0.3 | 2 | 2354 | 2594 | 2834 | 3074 | 6190 | 7190 | 8190 | T212A684M050(2)S | |
| 0.82 | A | 5 | T110A824J050AS | 0.3 | 2 | 5077 | 5277 | 5477 | 5677 | 6191 | 7191 | 8191 | T212A824J050(2)S | |
| 0.82 | A | 10 | T110A824K050AS | 0.3 | 2 | 2355 | 2595 | 2835 | 3075 | 6192 | 7192 | 8192 | T212A824K050(2)S | |
| 0.82 | A | 20 | T110A824M050AS | 0.3 | 2 | | | | | | | | | |
| 1.0 | A | 5 | T110A105J050AS | 0.4 | 2 | 5078 | 5278 | 5478 | 5678 | 6193 | 7193 | 8193 | T212A105J050(2)S | |
| 1.0 | A | 10 | T110A105K050AS | 0.4 | 2 | 2356 | 2596 | 2836 | 3076 | 6194 | 7194 | 8194 | T212A105K050(2)S | |
| 1.0 | A | 20 | T110A105M050AS | 0.4 | 2 | 2357 | 2597 | 2837 | 3077 | 6195 | 7195 | 8195 | T212A105M050(2)S | |
| 1.2 | B | 5 | T110B125J050AS | 0.4 | 4 | 5079 | 5279 | 5479 | 5679 | 6196 | 7196 | 8196 | T212B125J050(2)S | |
| 1.2 | B | 10 | T110B125K050AS | 0.4 | 4 | 2358 | 2598 | 2838 | 3078 | 6197 | 7197 | 8197 | T212B125K050(2)S | |
| 1.2 | B | 20 | T110B125M050AS | 0.4 | 4 | | | | | | | | | |
| 1.5 | B | 5 | T110B155J050AS | 0.5 | 4 | 5080 | 5280 | 5480 | 5680 | 6198 | 7198 | 8198 | T212B155J050(2)S | |
| 1.5 | B | 10 | T110B155K050AS | 0.5 | 4 | 2359 | 2599 | 2839 | 3079 | 6199 | 7199 | 8199 | T212B155K050(2)S | |
| 1.5 | B | 20 | T110B155M050AS | 0.5 | 4 | 2360 | 2600 | 2840 | 3080 | 6200 | 7200 | 8200 | T212B155M050(2)S | |
| 1.8 | B | 5 | T110B185J050AS | 0.5 | 4 | 5081 | 5281 | 5481 | 5681 | 6201 | 7201 | 8201 | T212B185J050(2)S | |
| 1.8 | B | 10 | T110B185K050AS | 0.5 | 4 | 2361 | 2601 | 2841 | 3081 | 6202 | 7202 | 8202 | T212B185K050(2)S | |
| 1.8 | B | 20 | T110B185M050AS | 0.5 | 4 | | | | | | | | | |
| 2.2 | B | 5 | T110B225J050AS | 0.8 | 4 | 5082 | 5282 | 5482 | 5682 | 6203 | 7203 | 8203 | T212B225J050(2)S | |
| 2.2 | B | 10 | T110B225K050AS | 0.8 | 4 | 2362 | 2602 | 2842 | 3082 | 6204 | 7204 | 8204 | T212B225K050(2)S | |
| 2.2 | B | 20 | T110B225M050AS | 0.8 | 4 | 2363 | 2603 | 2843 | 3083 | 6205 | 7205 | 8205 | T212B225M050(2)S | |
| 2.7 | B | 5 | T110B275J050AS | 0.8 | 4 | 5083 | 5283 | 5483 | 5683 | 6206 | 7206 | 8206 | T212B275J050(2)S | |
| 2.7 | B | 10 | T110B275K050AS | 0.8 | 4 | 2364 | 2604 | 2844 | 3084 | 6207 | 7207 | 8207 | T212B275K050(2)S | |
| 2.7 | B | 20 | T110B275M050AS | 0.8 | 4 | | | | | | | | | |
| 3.3 | B | 5 | T110B335J050AS | 1.2 | 4 | 5084 | 5284 | 5484 | 5684 | 6208 | 7208 | 8208 | T212B335J050(2)S | |
| 3.3 | B | 10 | T110B335K050AS | 1.2 | 4 | 2365 | 2605 | 2845 | 3085 | 6209 | 7209 | 8209 | T212B335K050(2)S | |
| 3.3 | B | 20 | T110B335M050AS | 1.2 | 4 | 2366 | 2606 | 2846 | 3086 | 6210 | 7210 | 8210 | T212B335M050(2)S | |
| 3.9 | B | 5 | T110B395J050AS | 1.5 | 4 | 5085 | 5285 | 5485 | 5685 | 6211 | 7211 | 8211 | T212B395J050(2)S | |
| 3.9 | B | 10 | T110B395K050AS | 1.5 | 4 | 2367 | 2607 | 2847 | 3087 | 6212 | 7212 | 8212 | T212B395K050(2)S | |
| 3.9 | B | 20 | T110B395M050AS | 1.5 | 4 | | | | | | | | | |
| 4.7 | B | 5 | T110B475J050AS | 1.7 | 4 | 5086 | 5286 | 5486 | 5686 | 6213 | 7213 | 8213 | T212B475J050(2)S | |
| 4.7 | B | 10 | T110B475K050AS | 1.7 | 4 | 2368 | 2608 | 2848 | 3088 | 6214 | 7214 | 8214 | T212B475K050(2)S | |
| 4.7 | B | 20 | T110B475M050AS | 1.7 | 4 | 2369 | 2609 | 2849 | 3089 | 6215 | 7215 | 8215 | T212B475M050(2)S | |
| 5.6 | C | 5 | T110C565J050AS | 2.2 | 4 | 5087 | 5287 | 5487 | 5687 | 6216 | 7216 | 8216 | T212C565J050(2)S | |
| 5.6 | C | 10 | T110C565K050AS | 2.2 | 4 | 2370 | 2610 | 2850 | 3090 | 6217 | 7217 | 8217 | T212C565K050(2)S | |
| 5.6 | C | 20 | T110C565M050AS | 2.2 | 4 | | | | | | | | | |
| 6.8 | C | 5 | T110C685J050AS | 2.2 | 4 | 5088 | 5288 | 5488 | 5688 | 6218 | 7218 | 8218 | T212C685J050(2)S | |
| 6.8 | C | 10 | T110C685K050AS | 2.2 | 4 | 2371 | 2611 | 2851 | 3091 | 6219 | 7219 | 8219 | T212C685K050(2)S | |
| 6.8 | C | 20 | T110C685M050AS | 2.2 | 4 | 2372 | 2612 | 2852 | 3092 | 6220 | 7220 | 8220 | T212C685M050(2)S | |
| 8.2 | C | 5 | T110C825J050AS | 2.5 | 4 | 5089 | 5289 | 5489 | 5689 | 6221 | 7221 | 8221 | T212C825J050(2)S | |
| 8.2 | C | 10 | T110C825K050AS | 2.5 | 4 | 2373 | 2613 | 2853 | 3093 | 6222 | 7222 | 8222 | T212C825K050(2)S | |
| 8.2 | C | 20 | T110C825M050AS | 2.5 | 4 | | | | | | | | | |
| 10.0 | C | 5 | T110C106J050AS | 2.5 | 4 | 5090 | 5290 | 5490 | 5690 | 6223 | 7223 | 8223 | T212C106J050(2)S | |
| 10.0 | C | 10 | T110C106K050AS | 2.5 | 4 | 2374 | 2614 | 2854 | 3094 | 6224 | 7224 | 8224 | T212C106K050(2)S | |
| 10.0 | C | 20 | T110C106M050AS | 2.5 | 4 | 2375 | 2615 | 2855 | 3095 | 6225 | 7225 | 8225 | T212C106M050(2)S | |
| 12.0 | C | 5 | T110C126J050AS | 3.0 | 4 | 5091 | 5291 | 5491 | 5691 | 6226 | 7226 | 8226 | T212C126J050(2)S | |
| 12.0 | C | 10 | T110C126K050AS | 3.0 | 4 | 2376 | 2616 | 2856 | 3096 | 6227 | 7227 | 8227 | T212C126K050(2)S | |
| 12.0 | C | 20 | T110C126M050AS | 3.0 | 4 | | | | | | | | | |
| 15.0 | C | 5 | T110C156J050AS | 4.0 | 4 | 5092 | 5292 | 5492 | 5692 | 6228 | 7228 | 8228 | T212C156J050(2)S | |
| 15.0 | C | 10 | T110C156K050AS | 4.0 | 4 | 2377 | 2617 | 2857 | 3097 | 6229 | 7229 | 8229 | T212C156K050(2)S | |
| 15.0 | C | 20 | T110C156M050AS | 4.0 | 4 | 2378 | 2618 | 2858 | 3098 | 6230 | 7230 | 8230 | T212C156M050(2)S | |
| 18.0 | C | 5 | T110C186J050AS | 4.5 | 4 | 5093 | 5293 | 5493 | 5693 | 6231 | 7231 | 8231 | T212C186J050(2)S | |

(1) To complete T110 Series part number, insert Capacitance Tolerance Symbol in the 9th Character as shown on Page 6.
 (2) To complete the T212 Series Part Number, insert Failure Rate Symbol in the 13th Character.
Bold Face lines indicate popular part type and values.



TANTALUM HERMETICALLY SEALED / AXIAL — MIL-PRF-39003
T110 SERIES — POLAR TYPE & T212 (CSR13)

RATINGS & PART NUMBER REFERENCE

| CAPACITANCE µF | CASE SIZE | CAPACITANCE TOLERANCE ±% | KEMET T110 | | | MIL-PRF-39003 (CSR13) CAPACITORS | | | | | | | | KEMET EQUIVALENT MILITARY PART NUMBER |
|--|--------------|--------------------------------|-----------------------|------------------------------------|---|---|-------------|--------------|--------------|----------------------------|-------------|--------------|-------------------------|--|
| | | | KEMET PART NUMBER | D.C. LEAKAGE µA@25°C MAX. | MAX. DISSIPATION FACTOR %@25°C, 120Hz | DASH NUMBER REFERENCE FAILURE RATE LEVEL (%/1000 HRS.) | | | | | | | | |
| | | | | | | MIL-PRF-39003/1H EXPONENTIAL | | | | MIL-PRF-39003/1H GRADED | | | | |
| | | | | | | M (1.0) | P (0.1) | R (0.001) | S (0.001) | B (0.1) | C (0.01) | D (0.001) | | |
| 50 VOLT RATING AT 85°C — 33 VOLT RATING AT 125°C (Cont'd) | | | | | | | | | | | | | | |
| 18.0 | C | 10 | T110C186K050AS | 4.5 | 4 | 2379 | 2619 | 2859 | 3099 | 6232 | 7232 | 8232 | T212C186K050(2)S | |
| 18.0 | C | 20 | T110C186M050AS | 4.5 | 4 | | | | | | | | | |
| 22.0 | D | 5 | T110D226J050AS | 5.5 | 4 | 5094 | 5294 | 5494 | 5694 | 6233 | 7233 | 8233 | T212D226J050(2)S | |
| 22.0 | D | 10 | T110D226K050AS | 5.5 | 4 | 2380 | 2620 | 2860 | 3100 | 6234 | 7234 | 8234 | T212D226K050(2)S | |
| 22.0 | D | 20 | T110D226M050AS | 5.5 | 4 | 2381 | 2621 | 2861 | 3101 | 6235 | 7235 | 8235 | T212D226M050(2)S | |
| 60 VOLT RATING AT 85°C — 40 VOLT RATING AT 125°C | | | | | | | | | | | | | | |
| 0.0047 | A | 5,10,20 | T110A472(1)060AS | 0.3 | 3 | | | | | | | | | |
| 0.0056 | A | 5,10,20 | T110A562(1)060AS | 0.3 | 3 | | | | | | | | | |
| 0.0068 | A | 5,10,20 | T110A682(1)060AS | 0.3 | 3 | | | | | | | | | |
| 0.0082 | A | 5,10,20 | T110A822(1)060AS | 0.3 | 3 | | | | | | | | | |
| 0.01 | A | 5,10,20 | T110A103(1)060AS | 0.3 | 3 | | | | | | | | | |
| 0.012 | A | 5,10,20 | T110A123(1)060AS | 0.3 | 3 | | | | | | | | | |
| 0.015 | A | 5,10,20 | T110A153(1)060AS | 0.3 | 3 | | | | | | | | | |
| 0.018 | A | 5,10,20 | T110A183(1)060AS | 0.3 | 3 | | | | | | | | | |
| 0.022 | A | 5,10,20 | T110A223(1)060AS | 0.3 | 3 | | | | | | | | | |
| 0.027 | A | 5,10,20 | T110A273(1)060AS | 0.3 | 3 | | | | | | | | | |
| 0.033 | A | 5,10,20 | T110A333(1)060AS | 0.3 | 3 | | | | | | | | | |
| 0.039 | A | 5,10,20 | T110A393(1)060AS | 0.3 | 3 | | | | | | | | | |
| 0.047 | A | 5,10,20 | T110A473(1)060AS | 0.3 | 3 | | | | | | | | | |
| 0.056 | A | 5,10,20 | T110A563(1)060AS | 0.3 | 3 | | | | | | | | | |
| 0.068 | A | 5,10,20 | T110A683(1)060AS | 0.3 | 3 | | | | | | | | | |
| 0.082 | A | 5,10,20 | T110A823(1)060AS | 0.3 | 3 | | | | | | | | | |
| 0.1 | A | 5,10,20 | T110A104(1)060AS | 0.5 | 3 | | | | | | | | | |
| 0.12 | A | 5,10,20 | T110A124(1)060AS | 0.5 | 3 | | | | | | | | | |
| 0.15 | A | 5,10,20 | T110A154(1)060AS | 0.5 | 3 | | | | | | | | | |
| 0.18 | A | 5,10,20 | T110A184(1)060AS | 0.5 | 3 | | | | | | | | | |
| 0.22 | A | 5,10,20 | T110A224(1)060AS | 0.5 | 3 | | | | | | | | | |
| 0.27 | A | 5,10,20 | T110A274(1)060AS | 0.5 | 3 | | | | | | | | | |
| 0.33 | A | 5,10,20 | T110A334(1)060AS | 0.5 | 3 | | | | | | | | | |
| 0.39 | A | 5,10,20 | T110A394(1)060AS | 0.5 | 3 | | | | | | | | | |
| 0.47 | A | 5,10,20 | T110A474(1)060AS | 0.5 | 3 | | | | | | | | | |
| 0.56 | A | 5,10,20 | T110A564(1)060AS | 0.5 | 3 | | | | | | | | | |
| 0.68 | A | 5,10,20 | T110A684(1)060AS | 0.5 | 3 | | | | | | | | | |
| 0.82 | B | 5,10,20 | T110B824(1)060AS | 0.5 | 3 | | | | | | | | | |
| 1.0 | B | 5,10,20 | T110B105(1)060AS | 0.5 | 3 | | | | | | | | | |
| 1.2 | B | 5,10,20 | T110B125(1)060AS | 0.5 | 4 | | | | | | | | | |
| 1.5 | B | 5,10,20 | T110B155(1)060AS | 0.5 | 4 | | | | | | | | | |
| 1.8 | B | 5,10,20 | T110B185(1)060AS | 0.5 | 4 | | | | | | | | | |
| 2.2 | B | 5,10,20 | T110B225(1)060AS | 1.0 | 4 | | | | | | | | | |
| 2.7 | B | 5,10,20 | T110B275(1)060AS | 1.0 | 4 | | | | | | | | | |
| 3.3 | B | 5,10,20 | T110B335(1)060AS | 1.5 | 4 | | | | | | | | | |
| 3.9 | B | 5,10,20 | T110B395(1)060AS | 1.5 | 4 | | | | | | | | | |
| 4.7 | C | 5,10,20 | T110C475(1)060AS | 2.0 | 4 | | | | | | | | | |
| 5.6 | C | 5,10,20 | T110C565(1)060AS | 2.0 | 4 | | | | | | | | | |
| 6.8 | C | 5,10,20 | T110C685(1)060AS | 3.0 | 4 | | | | | | | | | |
| 8.2 | C | 5,10,20 | T110C825(1)060AS | 4.0 | 4 | | | | | | | | | |
| 10.0 | C | 5,10,20 | T110C106(1)060AS | 5.0 | 4 | | | | | | | | | |
| 12.0 | C | 5,10,20 | T110C126(1)060AS | 5.0 | 4 | | | | | | | | | |
| 15.0 | D | 5,10,20 | T110D156(1)060AS | 4.0 | 4 | | | | | | | | | |
| 18.0 | D | 5,10,20 | T110D186(1)060AS | 5.0 | 4 | | | | | | | | | |
| 22.0 | D | 5,10,20 | T110D226(1)060AS | 6.0 | 4 | | | | | | | | | |
| 75 VOLT RATING AT 85°C — 50 VOLT RATING AT 125°C | | | | | | | | | | | | | | |
| 0.0047 | A | 5,10,20 | T110A472(1)075AS | 0.3 | 2 | | | | | | | | | |
| 0.0056 | A | 5,10,20 | T110A562(1)075AS | 0.3 | 2 | | | | | | | | | |
| 0.0068 | A | 5,10,20 | T110A682(1)075AS | 0.3 | 2 | | | | | | | | | |
| 0.0082 | A | 5,10,20 | T110A822(1)075AS | 0.3 | 2 | | | | | | | | | |
| 0.01 | A | 5,10,20 | T110A103(1)075AS | 0.3 | 2 | | | | | | | | | |

(1) To complete T110 Series part number, insert Capacitance Tolerance Symbol in the 9th Character as shown on Page 6.

(2) To complete the T212 Series Part Number, insert Failure Rate Symbol in the 13th Character.

Bold Face lines indicate popular part types and values.

RATINGS & PART NUMBER REFERENCE

| CAPACITANCE µF | CASE SIZE | CAPACITANCE TOLERANCE ±% | KEMET T110 | | | MIL-PRF-39003 (CSR13) CAPACITORS | | | | | | | | KEMET EQUIVALENT MILITARY PART NUMBER | |
|--|--------------|--------------------------------|----------------------|------------------------------------|---|---|------------|-------------|--------------|----------------------------|-------------|--------------|------------------|--|--|
| | | | KEMET PART NUMBER | D.C. LEAKAGE µA@25°C MAX. | MAX. DISSIPATION FACTOR %@25°C, 120Hz | DASH NUMBER REFERENCE FAILURE RATE LEVEL (%/1000 HRS.) | | | | | | | | | |
| | | | | | | MIL-PRF-39003/1H EXPONENTIAL | | | | MIL-PRF-39003/1H GRADED | | | | | |
| | | | | | | M (1.0) | P (0.1) | R (0.01) | S (0.001) | B (0.1) | C (0.01) | D (0.001) | | | |
| 75 VOLT RATING AT 85°C — 50 VOLT RATING AT 125°C (Cont'd) | | | | | | | | | | | | | | | |
| 0.012 | A | 5,10,20 | T110A123(1)075AS | 0.3 | 2 | | | | | | | | | | |
| 0.015 | A | 5,10,20 | T110A153(1)075AS | 0.3 | 2 | | | | | | | | | | |
| 0.018 | A | 5,10,20 | T110A183(1)075AS | 0.3 | 2 | | | | | | | | | | |
| 0.022 | A | 5,10,20 | T110A223(1)075AS | 0.3 | 2 | | | | | | | | | | |
| 0.027 | A | 5,10,20 | T110A273(1)075AS | 0.3 | 2 | | | | | | | | | | |
| 0.033 | A | 5,10,20 | T110A333(1)075AS | 0.3 | 2 | | | | | | | | | | |
| 0.039 | A | 5,10,20 | T110A393(1)075AS | 0.3 | 2 | | | | | | | | | | |
| 0.047 | A | 5,10,20 | T110A473(1)075AS | 0.3 | 2 | | | | | | | | | | |
| 0.056 | A | 5,10,20 | T110A563(1)075AS | 0.3 | 2 | | | | | | | | | | |
| 0.068 | A | 5,10,20 | T110A683(1)075AS | 0.3 | 2 | | | | | | | | | | |
| 0.082 | A | 5,10,20 | T110A823(1)075AS | 0.3 | 2 | | | | | | | | | | |
| 0.1 | A | 5 | T110A104J075AS | 0.3 | 2 | 5095 | 5295 | 5495 | 5695 | 6236 | 7236 | 8236 | T212A104J075(2)S | | |
| 0.1 | A | 10 | T110A104K075AS | 0.3 | 2 | 2382 | 2622 | 2862 | 3102 | 6237 | 7237 | 8237 | T212A104K075(2)S | | |
| 0.1 | A | 20 | T110A104M075AS | 0.3 | 2 | 2383 | 2623 | 2863 | 3103 | 6238 | 7238 | 8238 | T212A104M075(2)S | | |
| 0.12 | A | 5 | T110A124J075AS | 0.3 | 2 | 5096 | 5296 | 5496 | 5696 | 6239 | 7239 | 8239 | T212A124J075(2)S | | |
| 0.12 | A | 10 | T110A124K075AS | 0.3 | 2 | 2384 | 2624 | 2864 | 3104 | 6240 | 7240 | 8240 | T212A124K075(2)S | | |
| 0.12 | A | 20 | T110A124M075AS | 0.3 | 2 | | | | | | | | | | |
| 0.15 | A | 5 | T110A154J075AS | 0.3 | 2 | 5097 | 5297 | 5497 | 5697 | 6241 | 7241 | 8241 | T212A154J075(2)S | | |
| 0.15 | A | 10 | T110A154K075AS | 0.3 | 2 | 2385 | 2625 | 2865 | 3105 | 6242 | 7242 | 8242 | T212A154K075(2)S | | |
| 0.15 | A | 20 | T110A154M075AS | 0.3 | 2 | 2386 | 2626 | 2866 | 3106 | 6243 | 7243 | 8243 | T212A154M075(2)S | | |
| 0.18 | A | 5 | T110A184J075AS | 0.3 | 2 | 5098 | 5298 | 5498 | 5698 | 6244 | 7244 | 8244 | T212A184J075(2)S | | |
| 0.18 | A | 10 | T110A184K075AS | 0.3 | 2 | 2387 | 2627 | 2867 | 3107 | 6245 | 7245 | 8245 | T212A184K075(2)S | | |
| 0.18 | A | 20 | T110A184M075AS | 0.3 | 2 | | | | | | | | | | |
| 0.22 | A | 5 | T110A224J075AS | 0.3 | 2 | 5099 | 5299 | 5499 | 5699 | 6246 | 7246 | 8246 | T212A224J075(2)S | | |
| 0.22 | A | 10 | T110A224K075AS | 0.3 | 2 | 2388 | 2628 | 2868 | 3108 | 6247 | 7247 | 8247 | T212A224K075(2)S | | |
| 0.22 | A | 20 | T110A224M075AS | 0.3 | 2 | 2389 | 2629 | 2869 | 3109 | 6248 | 7248 | 8248 | T212A224M075(2)S | | |
| 0.27 | A | 5 | T110A274J075AS | 0.3 | 2 | 5100 | 5300 | 5500 | 5700 | 6249 | 7249 | 8249 | T212A274J075(2)S | | |
| 0.27 | A | 10 | T110A274K075AS | 0.3 | 2 | 2390 | 2630 | 2870 | 3110 | 6250 | 7250 | 8250 | T212A274K075(2)S | | |
| 0.27 | A | 20 | T110A274M075AS | 0.3 | 2 | | | | | | | | | | |
| 0.33 | A | 5 | T110A334J075AS | 0.3 | 2 | 5101 | 5301 | 5501 | 5701 | 6251 | 7251 | 8251 | T212A334J075(2)S | | |
| 0.33 | A | 10 | T110A334K075AS | 0.3 | 2 | 2391 | 2631 | 2871 | 3111 | 6252 | 7252 | 8252 | T212A334K075(2)S | | |
| 0.33 | A | 20 | T110A334M075AS | 0.3 | 2 | 2392 | 2632 | 2872 | 3112 | 6253 | 7253 | 8253 | T212A334M075(2)S | | |
| 0.39 | A | 5 | T110A394J075AS | 0.3 | 2 | 5102 | 5302 | 5502 | 5702 | 6254 | 7254 | 8254 | T212A394J075(2)S | | |
| 0.39 | A | 10 | T110A394K075AS | 0.3 | 2 | 2393 | 2633 | 2873 | 3113 | 6255 | 7255 | 8255 | T212A394K075(2)S | | |
| 0.39 | A | 20 | T110A394M075AS | 0.3 | 2 | | | | | | | | | | |
| 0.47 | A | 5 | T110A474J075AS | 0.3 | 2 | 5103 | 5303 | 5503 | 5703 | 6256 | 7256 | 8256 | T212A474J075(2)S | | |
| 0.47 | A | 10 | T110A474K075AS | 0.3 | 2 | 2394 | 2634 | 2874 | 3114 | 6257 | 7257 | 8257 | T212A474K075(2)S | | |
| 0.47 | A | 20 | T110A474M075AS | 0.3 | 2 | 2395 | 2635 | 2875 | 3115 | 6258 | 7258 | 8258 | T212A474M075(2)S | | |
| 0.56 | A | 5 | T110A564J075AS | 0.3 | 2 | 5104 | 5304 | 5504 | 5704 | 6259 | 7259 | 8259 | T212A564J075(2)S | | |
| 0.56 | A | 10 | T110A564K075AS | 0.3 | 2 | 2396 | 2636 | 2876 | 3116 | 6260 | 7260 | 8260 | T212A564K075(2)S | | |
| 0.56 | A | 20 | T110A564M075AS | 0.3 | 2 | | | | | | | | | | |
| 0.68 | A | 5 | T110A684J075AS | 0.3 | 2 | 5105 | 5305 | 5505 | 5705 | 6261 | 7261 | 8261 | T212A684J075(2)S | | |
| 0.68 | A | 10 | T110A684K075AS | 0.3 | 2 | 2397 | 2637 | 2877 | 3117 | 6262 | 7262 | 8262 | T212A684K075(2)S | | |
| 0.68 | A | 20 | T110A684M075AS | 0.3 | 2 | 2398 | 2638 | 2878 | 3118 | 6263 | 7263 | 8263 | T212A684M075(2)S | | |
| 0.82 | B | 5 | T110B824J075AS | 0.3 | 2 | 5106 | 5306 | 5506 | 5706 | 6264 | 7264 | 8264 | T212B824J075(2)S | | |
| 0.82 | B | 10 | T110B824K075AS | 0.3 | 2 | 2399 | 2639 | 2879 | 3119 | 6265 | 7265 | 8265 | T212B824K075(2)S | | |
| 0.82 | B | 20 | T110B824M075AS | 0.3 | 2 | | | | | | | | | | |
| 1.0 | B | 5 | T110B105J075AS | 0.3 | 2 | 5107 | 5307 | 5507 | 5707 | 6266 | 7266 | 8266 | T212B105J075(2)S | | |
| 1.0 | B | 10 | T110B105K075AS | 0.3 | 2 | 2400 | 2640 | 2880 | 3120 | 6267 | 7267 | 8267 | T212B105K075(2)S | | |
| 1.0 | B | 20 | T110B105M075AS | 0.3 | 2 | 2401 | 2641 | 2881 | 3121 | 6268 | 7268 | 8268 | T212B105M075(2)S | | |
| 1.2 | B | 5 | T110B125J075AS | 0.3 | 4 | 5108 | 5308 | 5508 | 5708 | 6269 | 7269 | 8269 | T212B125J075(2)S | | |
| 1.2 | B | 10 | T110B125K075AS | 0.3 | 4 | 2402 | 2642 | 2882 | 3122 | 6270 | 7270 | 8270 | T212B125K075(2)S | | |
| 1.2 | B | 20 | T110B125M075AS | 0.3 | 4 | | | | | | | | | | |
| 1.5 | B | 5 | T110B155J075AS | 0.6 | 4 | 5109 | 5309 | 5509 | 5709 | 6271 | 7271 | 8271 | T212B155J075(2)S | | |
| 1.5 | B | 10 | T110B155K075AS | 0.6 | 4 | 2403 | 2643 | 2883 | 3123 | 6272 | 7272 | 8272 | T212B155K075(2)S | | |
| 1.5 | B | 20 | T110B155M075AS | 0.6 | 4 | 2404 | 2644 | 2884 | 3124 | 6273 | 7273 | 8273 | T212B155M075(2)S | | |
| 1.8 | B | 5 | T110B185J075AS | 0.7 | 4 | 5110 | 5310 | 5510 | 5710 | 6274 | 7274 | 8274 | T212B185J075(2)S | | |
| 1.8 | B | 10 | T110B185K075AS | 0.7 | 4 | 2405 | 2645 | 2885 | 3125 | 6275 | 7275 | 8275 | T212B185K075(2)S | | |
| 1.8 | B | 20 | T110B185M075AS | 0.7 | 4 | | | | | | | | | | |
| 2.2 | B | 5 | T110B225J075AS | 0.8 | 4 | 5111 | 5311 | 5511 | 5711 | 6276 | 7276 | 8276 | T212B225J075(2)S | | |
| 2.2 | B | 10 | T110B225K075AS | 0.8 | 4 | 2406 | 2646 | 2886 | 3126 | 6277 | 7277 | 8277 | T212B225K075(2)S | | |

(1) To complete T110 Series part number, insert Capacitance Tolerance Symbol in the 9th Character as shown on Page 6.
(2) To complete the T212 Series Part Number, insert Failure Rate Symbol in the 13th Character.
Bold Face lines indicate popular part types and values.

RATINGS & PART NUMBER REFERENCE

| CAPACITANCE μF | CASE SIZE | CAPACITANCE TOLERANCE ±% | KEMET T110 | | | MIL-PRF-39003 (CSR13) CAPACITORS | | | | | | | | KEMET EQUIVALENT MILITARY PART NUMBER |
|--|--------------|--------------------------------|----------------------|------------------------------------|---|---|------------|-------------|--------------|----------------------------|-------------|--------------|------------------|--|
| | | | KEMET PART NUMBER | D.C. LEAKAGE μA@25°C MAX. | MAX. DISSIPATION FACTOR %@25°C, 120Hz | DASH NUMBER REFERENCE FAILURE RATE LEVEL (%/1000 HRS.) | | | | | | | | |
| | | | | | | MIL-PRF-39003/1H EXPONENTIAL | | | | MIL-PRF-39003/1H GRADED | | | | |
| | | | | | | M (1.0) | P (0.1) | R (0.01) | S (0.001) | B (0.1) | C (0.01) | D (0.001) | | |
| 75 VOLT RATING AT 85°C — 50 VOLT RATING AT 125°C (Cont'd) | | | | | | | | | | | | | | |
| 2.2 | B | 20 | T110B225M075AS | 0.8 | 4 | 2407 | 2647 | 2887 | 3127 | 6278 | 7278 | 8278 | T212B225M075(2)S | |
| 2.7 | B | 5 | T110B275J075AS | 1.0 | 4 | 5112 | 5312 | 5512 | 5712 | 6279 | 7279 | 8279 | T212B275J075(2)S | |
| 2.7 | B | 10 | T110B275K075AS | 1.0 | 4 | 2408 | 2648 | 2888 | 3128 | 6280 | 7280 | 8280 | T212B275K075(2)S | |
| 2.7 | B | 20 | T110B275M075AS | 1.2 | 4 | | | | | | | | | |
| 3.3 | B | 5 | T110B335J075AS | 1.2 | 4 | 5113 | 5313 | 5513 | 5713 | 6281 | 7281 | 8281 | T212B335J075(2)S | |
| 3.3 | B | 10 | T110B335K075AS | 1.2 | 4 | 2409 | 2649 | 2889 | 3129 | 6282 | 7282 | 8282 | T212B335K075(2)S | |
| 3.3 | B | 20 | T110B335M075AS | 1.2 | 4 | 2410 | 2650 | 2890 | 3130 | 6283 | 7283 | 8283 | T212B335M075(2)S | |
| 3.9 | B | 5 | T110B395J075AS | 1.5 | 4 | 5114 | 5314 | 5514 | 5714 | 6284 | 7284 | 8284 | T212B395J075(2)S | |
| 3.9 | B | 10 | T110B395K075AS | 1.5 | 4 | 2411 | 2651 | 2891 | 3131 | 6285 | 7285 | 8285 | T212B395K075(2)S | |
| 3.9 | B | 20 | T110B395M075AS | 1.5 | 4 | | | | | | | | | |
| 4.7 | C | 5 | T110C475J075AS | 3.0 | 4 | 5115 | 5315 | 5515 | 5715 | 6286 | 7286 | 8286 | T212C475J075(2)S | |
| 4.7 | C | 10 | T110C475K075AS | 3.0 | 4 | 2412 | 2652 | 2892 | 3132 | 6287 | 7287 | 8287 | T212C475K075(2)S | |
| 4.7 | C | 20 | T110C475M075AS | 3.0 | 4 | 2413 | 2653 | 2893 | 3133 | 6288 | 7288 | 8288 | T212C475M075(2)S | |
| 5.6 | C | 5 | T110C565J075AS | 3.0 | 4 | 5116 | 5316 | 5516 | 5716 | 6289 | 7289 | 8289 | T212C565J075(2)S | |
| 5.6 | C | 10 | T110C565K075AS | 3.0 | 4 | 2414 | 2654 | 2894 | 3134 | 6290 | 7290 | 8290 | T212C565K075(2)S | |
| 5.6 | C | 20 | T110C565M075AS | 3.0 | 4 | | | | | | | | | |
| 6.8 | C | 5 | T110C685J075AS | 5.0 | 4 | 5117 | 5317 | 5517 | 5717 | 6291 | 7291 | 8291 | T212C685J075(2)S | |
| 6.8 | C | 10 | T110C685K075AS | 5.0 | 4 | 2415 | 2655 | 2895 | 3135 | 6292 | 7292 | 8292 | T212C685K075(2)S | |
| 6.8 | C | 20 | T110C685M075AS | 5.0 | 4 | 2416 | 2656 | 2896 | 3136 | 6293 | 7293 | 8293 | T212C685M075(2)S | |
| 8.2 | C | 5 | T110C825J075AS | 5.0 | 4 | 5118 | 5318 | 5518 | 5718 | 6294 | 7294 | 8294 | T212C825J075(2)S | |
| 8.2 | C | 10 | T110C825K075AS | 5.0 | 4 | 2417 | 2657 | 2897 | 3137 | 6295 | 7295 | 8295 | T212C825K075(2)S | |
| 8.2 | C | 20 | T110C825M075AS | 5.0 | 4 | | | | | | | | | |
| 10.0 | C | 5 | T110C106J075AS | 5.0 | 4 | 5119 | 5319 | 5519 | 5719 | 6296 | 7296 | 8296 | T212C106J075(2)S | |
| 10.0 | C | 10 | T110C106K075AS | 5.0 | 4 | 2418 | 2658 | 2898 | 3138 | 6297 | 7297 | 8297 | T212C106K075(2)S | |
| 10.0 | C | 20 | T110C106M075AS | 5.0 | 4 | 2419 | 2659 | 2899 | 3139 | 6298 | 7298 | 8298 | T212C106M075(2)S | |
| 12.0 | D | 5 | T110D126J075AS | 5.0 | 4 | 5120 | 5320 | 5520 | 5720 | 6299 | 7299 | 8299 | T212D126J075(2)S | |
| 12.0 | D | 10 | T110D126K075AS | 5.0 | 4 | 2420 | 2660 | 2900 | 3140 | 6300 | 7300 | 8300 | T212D126K075(2)S | |
| 12.0 | D | 20 | T110D126M075AS | 5.0 | 4 | | | | | | | | | |
| 15.0 | D | 5 | T110D156J075AS | 7.0 | 4 | 5121 | 5321 | 5521 | 5721 | 6301 | 7301 | 8301 | T212D156J075(2)S | |
| 15.0 | D | 10 | T110D156K075AS | 7.0 | 4 | 2421 | 2661 | 2901 | 3141 | 6302 | 7302 | 8302 | T212D156K075(2)S | |
| 15.0 | D | 20 | T110D156M075AS | 7.0 | 4 | 2422 | 2662 | 2902 | 3142 | 6303 | 7303 | 8303 | T212D156M075(2)S | |
| 100 VOLT RATING AT 85°C — 67 VOLT RATING AT 125° | | | | | | | | | | | | | | |
| 0.0047 | A | 5 | T110A472J100AS | 0.3 | 2 | 5122 | 5322 | 5522 | 5722 | 6304 | 7304 | * | T212A472J100(2)S | |
| 0.0047 | A | 10 | T110A472K100AS | 0.3 | 2 | 2423 | 2663 | 2903 | 3143 | 6305 | 7305 | * | T212A472K100(2)S | |
| 0.0047 | A | 20 | T110A472M100AS | 0.3 | 2 | 2424 | 2664 | 2904 | 3144 | 6306 | 7306 | * | T212A472M100(2)S | |
| 0.0056 | A | 5 | T110A562J100AS | 0.3 | 2 | 5123 | 5323 | 5523 | 5723 | 6307 | 7307 | * | T212A562J100(2)S | |
| 0.0056 | A | 10 | T110A562K100AS | 0.3 | 2 | 2425 | 2665 | 2905 | 3145 | 6308 | 7308 | * | T212A562K100(2)S | |
| 0.0056 | A | 20 | T110A562M100AS | 0.3 | 2 | | | | | | | | | |
| 0.0068 | A | 5 | T110A682J100AS | 0.3 | 2 | 5124 | 5324 | 5524 | 5724 | 6309 | 7309 | * | T212A682J100(2)S | |
| 0.0068 | A | 10 | T110A682K100AS | 0.3 | 2 | 2426 | 2666 | 2906 | 3146 | 6310 | 7310 | * | T212A682K100(2)S | |
| 0.0068 | A | 20 | T110A682M100AS | 0.3 | 2 | 2427 | 2667 | 2907 | 3147 | 6311 | 7311 | * | T212A682M100(2)S | |
| 0.0082 | A | 5 | T110A822J100AS | 0.3 | 2 | 5125 | 5325 | 5525 | 5725 | 6312 | 7312 | * | T212A822J100(2)S | |
| 0.0082 | A | 10 | T110A822K100AS | 0.3 | 2 | 2428 | 2668 | 2908 | 3148 | 6313 | 7313 | * | T212A822K100(2)S | |
| 0.0082 | A | 20 | T110A822M100AS | 0.3 | 2 | | | | | | | | | |
| 0.01 | A | 5 | T110A103J100AS | 0.3 | 2 | 5126 | 5326 | 5526 | 5726 | 6314 | 7314 | * | T212A103J100(2)S | |
| 0.01 | A | 10 | T110A103K100AS | 0.3 | 2 | 2429 | 2669 | 2909 | 3149 | 6315 | 7315 | * | T212A103K100(2)S | |
| 0.01 | A | 20 | T110A103M100AS | 0.3 | 2 | 2430 | 2670 | 2910 | 3150 | 6316 | 7316 | * | T212A103M100(2)S | |
| 0.012 | A | 5 | T110A123J100AS | 0.3 | 2 | 5127 | 5327 | 5527 | 5727 | 6317 | 7317 | * | T212A123J100(2)S | |
| 0.012 | A | 10 | T110A123K100AS | 0.3 | 2 | 2431 | 2671 | 2911 | 3151 | 6318 | 7318 | * | T212A123K100(2)S | |
| 0.012 | A | 20 | T110A123M100AS | 0.3 | 2 | | | | | | | | | |
| 0.015 | A | 5 | T110A153J100AS | 0.3 | 2 | 5128 | 5328 | 5528 | 5728 | 6319 | 7319 | * | T212A153J100(2)S | |
| 0.015 | A | 10 | T110A153K100AS | 0.3 | 2 | 2432 | 2672 | 2912 | 3152 | 6320 | 7320 | * | T212A153K100(2)S | |
| 0.015 | A | 20 | T110A153M100AS | 0.3 | 2 | 2433 | 2673 | 2913 | 3153 | 6321 | 7321 | * | T212A153M100(2)S | |
| 0.018 | A | 5 | T110A183J100AS | 0.3 | 2 | 5129 | 5329 | 5529 | 5729 | 6322 | 7322 | * | T212A183J100(2)S | |
| 0.018 | A | 10 | T110A183K100AS | 0.3 | 2 | 2434 | 2674 | 2914 | 3154 | 6323 | 7323 | * | T212A183K100(2)S | |
| 0.018 | A | 20 | T110A183M100AS | 0.3 | 2 | | | | | | | | | |
| 0.022 | A | 5 | T110A223J100AS | 0.3 | 2 | 5130 | 5330 | 5530 | 5730 | 6324 | 7324 | * | T212A223J100(2)S | |
| 0.022 | A | 10 | T110A223K100AS | 0.3 | 2 | 2435 | 2675 | 2915 | 3155 | 6325 | 7325 | * | T212A223K100(2)S | |

(1) To complete T110 Series part number, insert Capacitance Tolerance Symbol in the 9th Character as shown on Page 6.

(2) To complete the T212 Series Part Number, insert Failure Rate Symbol in the 13th Character.

Bold Face lines indicate popular part types and values.

*Note: D Failure Rate — Not QPL for -8304 thru -8401.

RATINGS & PART NUMBER REFERENCE

| CAPACITANCE μF | CASE SIZE | CAPACITANCE TOLERANCE ±% | KEMET T110 | | | MIL-PRF-39003 (CSR13) CAPACITORS | | | | | | | KEMET EQUIVALENT MILITARY PART NUMBER |
|---|--------------|--------------------------------|----------------------|------------------------------------|---|---|------------|-------------|--------------|----------------------------|-------------|--------------|--|
| | | | KEMET PART NUMBER | D.C. LEAKAGE μA@25°C MAX. | MAX. DISSIPATION FACTOR %@25°C, 120Hz | DASH NUMBER REFERENCE FAILURE RATE LEVEL (%/1000 HRS.) | | | | | | | |
| | | | | | | MIL-PRF-39003/1H EXPONENTIAL | | | | MIL-PRF-39003/1H GRADED | | | |
| | | | | | | M (1.0) | P (0.1) | R (0.01) | S (0.001) | B (0.1) | C (0.01) | D (0.001) | |
| 100 VOLT RATING AT 85°C — 67 VOLT RATING AT 125°C (Cont'd) | | | | | | | | | | | | | |
| 0.022 | A | 20 | T110A223M100AS | 0.3 | 2 | 2436 | 2676 | 2916 | 3156 | 6326 | 7326 | * | T212A223M100(2)S |
| 0.027 | A | 5 | T110A273J100AS | 0.3 | 2 | 5131 | 5331 | 5531 | 5731 | 6327 | 7327 | * | T212A273J100(2)S |
| 0.027 | A | 10 | T110A273K100AS | 0.3 | 2 | 2437 | 2677 | 2917 | 3157 | 6328 | 7328 | * | T212A273K100(2)S |
| 0.027 | A | 20 | T110A273M100AS | 0.3 | 2 | | | | | | | | |
| 0.033 | A | 5 | T110A333J100AS | 0.3 | 2 | 5132 | 5332 | 5532 | 5732 | 6329 | 7329 | * | T212A333J100(2)S |
| 0.033 | A | 10 | T110A333K100AS | 0.3 | 2 | 2438 | 2678 | 2918 | 3158 | 6330 | 7330 | * | T212A333K100(2)S |
| 0.033 | A | 20 | T110A333M100AS | 0.3 | 2 | 2439 | 2679 | 2919 | 3159 | 6331 | 7331 | * | T212A333M100(2)S |
| 0.039 | A | 5 | T110A393J100AS | 0.3 | 2 | 5133 | 5333 | 5533 | 5733 | 6332 | 7332 | * | T212A393J100(2)S |
| 0.039 | A | 10 | T110A393K100AS | 0.3 | 2 | 2440 | 2680 | 2920 | 3160 | 6333 | 7333 | * | T212A393K100(2)S |
| 0.039 | A | 20 | T110A393M100AS | 0.3 | 2 | | | | | | | | |
| 0.047 | A | 5 | T110A473J100AS | 0.3 | 2 | 5134 | 5334 | 5534 | 5734 | 6334 | 7334 | * | T212A473J100(2)S |
| 0.047 | A | 10 | T110A473K100AS | 0.3 | 2 | 2441 | 2681 | 2921 | 3161 | 6335 | 7335 | * | T212A473K100(2)S |
| 0.047 | A | 20 | T110A473M100AS | 0.3 | 2 | 2442 | 2682 | 2922 | 3162 | 6336 | 7336 | * | T212A473M100(2)S |
| 0.056 | A | 5 | T110A563J100AS | 0.3 | 2 | 5135 | 5335 | 5535 | 5735 | 6337 | 7337 | * | T212A563J100(2)S |
| 0.056 | A | 10 | T110A563K100AS | 0.3 | 2 | 2443 | 2683 | 2923 | 3163 | 6338 | 7338 | * | T212A563K100(2)S |
| 0.056 | A | 20 | T110A563M100AS | 0.3 | 2 | | | | | | | | |
| 0.068 | A | 5 | T110A683J100AS | 0.3 | 2 | 5136 | 5336 | 5536 | 5736 | 6339 | 7339 | * | T212A683J100(2)S |
| 0.068 | A | 10 | T110A683K100AS | 0.3 | 2 | 2444 | 2684 | 2924 | 3164 | 6340 | 7340 | * | T212A683K100(2)S |
| 0.068 | A | 20 | T110A683M100AS | 0.3 | 2 | 2445 | 2685 | 2925 | 3165 | 6341 | 7341 | * | T212A683M100(2)S |
| 0.082 | A | 5 | T110A823J100AS | 0.3 | 2 | 5137 | 5337 | 5537 | 5737 | 6342 | 7342 | * | T212A823J100(2)S |
| 0.082 | A | 10 | T110A823K100AS | 0.3 | 2 | 2446 | 2686 | 2926 | 3166 | 6343 | 7343 | * | T212A823K100(2)S |
| 0.082 | A | 20 | T110A823M100AS | 0.3 | 2 | | | | | | | | |
| 0.1 | A | 5 | T110A104J100AS | 0.3 | 2 | 5138 | 5338 | 5538 | 5738 | 6344 | 7344 | * | T212A104J100(2)S |
| 0.1 | A | 10 | T110A104K100AS | 0.3 | 2 | 2447 | 2687 | 2927 | 3167 | 6345 | 7345 | * | T212A104K100(2)S |
| 0.1 | A | 20 | T110A104M100AS | 0.3 | 2 | 2448 | 2688 | 2928 | 3168 | 6346 | 7346 | * | T212A104M100(2)S |
| 0.12 | A | 5 | T110A124J100AS | 0.3 | 2 | 5139 | 5339 | 5539 | 5739 | 6347 | 7347 | * | T212A124J100(2)S |
| 0.12 | A | 10 | T110A124K100AS | 0.3 | 2 | 2449 | 2689 | 2929 | 3169 | 6348 | 7348 | * | T212A124K100(2)S |
| 0.12 | A | 20 | T110A124M100AS | 0.3 | 2 | | | | | | | | |
| 0.15 | A | 5 | T110A154J100AS | 0.3 | 2 | 5140 | 5340 | 5540 | 5740 | 6349 | 7349 | * | T212A154J100(2)S |
| 0.15 | A | 10 | T110A154K100AS | 0.3 | 2 | 2450 | 2690 | 2930 | 3170 | 6350 | 7350 | * | T212A154K100(2)S |
| 0.15 | A | 20 | T110A154M100AS | 0.3 | 2 | 2451 | 2691 | 2931 | 3171 | 6351 | 7351 | * | T212A154M100(2)S |
| 0.18 | A | 5 | T110A184J100AS | 0.3 | 2 | 5141 | 5341 | 5541 | 5741 | 6352 | 7352 | * | T212A184J100(2)S |
| 0.18 | A | 10 | T110A184K100AS | 0.3 | 2 | 2452 | 2692 | 2932 | 3172 | 6353 | 7353 | * | T212A184K100(2)S |
| 0.18 | A | 20 | T110A184M100AS | 0.3 | 2 | | | | | | | | |
| 0.22 | A | 5 | T110A224J100AS | 0.3 | 2 | 5142 | 5342 | 5542 | 5742 | 6354 | 7354 | * | T212A224J100(2)S |
| 0.22 | A | 10 | T110A224K100AS | 0.3 | 2 | 2453 | 2693 | 2933 | 3173 | 6355 | 7355 | * | T212A224K100(2)S |
| 0.22 | A | 20 | T110A224M100AS | 0.3 | 2 | 2454 | 2694 | 2934 | 3174 | 6356 | 7356 | * | T212A224M100(2)S |
| 0.27 | A | 5 | T110A274J100AS | 0.3 | 2 | 5143 | 5343 | 5543 | 5743 | 6357 | 7357 | * | T212A274J100(2)S |
| 0.27 | A | 10 | T110A274K100AS | 0.3 | 2 | 2455 | 2695 | 2935 | 3175 | 6358 | 7358 | * | T212A274K100(2)S |
| 0.27 | A | 20 | T110A274M100AS | 0.3 | 2 | | | | | | | | |
| 0.33 | A | 5 | T110A334J100AS | 0.3 | 2 | 5144 | 5344 | 5544 | 5744 | 6359 | 7359 | * | T212A334J100(2)S |
| 0.33 | A | 10 | T110A334K100AS | 0.3 | 2 | 2456 | 2696 | 2936 | 3176 | 6360 | 7360 | * | T212A334K100(2)S |
| 0.33 | A | 20 | T110A334M100AS | 0.3 | 2 | 2457 | 2697 | 2937 | 3177 | 6361 | 7361 | * | T212A334M100(2)S |
| 0.39 | A | 5 | T110A394J100AS | 0.3 | 2 | 5145 | 5345 | 5545 | 5745 | 6362 | 7362 | * | T212A394J100(2)S |
| 0.39 | A | 10 | T110A394K100AS | 0.3 | 2 | 2458 | 2698 | 2938 | 3178 | 6363 | 7363 | * | T212A394K100(2)S |
| 0.39 | A | 20 | T110A394M100AS | 0.3 | 2 | | | | | | | | |
| 0.47 | A | 5 | T110A474J100AS | 0.3 | 2 | 5146 | 5346 | 5546 | 5746 | 6364 | 7364 | * | T212A474J100(2)S |
| 0.47 | A | 10 | T110A474K100AS | 0.3 | 2 | 2459 | 2699 | 2939 | 3179 | 6365 | 7365 | * | T212A474K100(2)S |
| 0.47 | A | 20 | T110A474M100AS | 0.3 | 2 | 2460 | 2700 | 2940 | 3180 | 6366 | 7366 | * | T212A474M100(2)S |
| 0.56 | A | 5 | T110A564J100AS | 0.3 | 2 | 5147 | 5347 | 5547 | 5747 | 6367 | 7367 | * | T212A564J100(2)S |
| 0.56 | A | 10 | T110A564K100AS | 0.3 | 2 | 2461 | 2701 | 2941 | 3181 | 6368 | 7368 | * | T212A564K100(2)S |
| 0.56 | A | 20 | T110A564M100AS | 0.3 | 2 | | | | | | | | |
| 0.68 | B | 5 | T110B684J100AS | 0.3 | 2 | 5148 | 5348 | 5548 | 5748 | 6369 | 7369 | * | T212B684J100(2)S |
| 0.68 | B | 10 | T110B684K100AS | 0.3 | 2 | 2462 | 2702 | 2942 | 3182 | 6370 | 7370 | * | T212B684K100(2)S |
| 0.68 | B | 20 | T110B684M100AS | 0.3 | 2 | 2463 | 2703 | 2943 | 3183 | 6371 | 7371 | * | T212B684M100(2)S |
| 0.82 | B | 5 | T110B824J100AS | 0.4 | 2 | 5149 | 5349 | 5549 | 5749 | 6372 | 7372 | * | T212B824J100(2)S |
| 0.82 | B | 10 | T110B824K100AS | 0.4 | 2 | 2464 | 2704 | 2944 | 3184 | 6373 | 7373 | * | T212B824K100(2)S |
| 0.82 | B | 20 | T110B824M100AS | 0.4 | 2 | | | | | | | | |
| 1.0 | B | 5 | T110B105J100AS | 0.5 | 2 | 5150 | 5350 | 5550 | 5750 | 6374 | 7374 | * | T212B105J100(2)S |
| 1.0 | B | 10 | T110B105K100AS | 0.5 | 2 | 2465 | 2705 | 2945 | 3185 | 6375 | 7375 | * | T212B105K100(2)S |
| 1.0 | B | 20 | T110B105M100AS | 0.5 | 2 | 2466 | 2706 | 2946 | 3186 | 6376 | 7376 | * | T212B105M100(2)S |

(1) To complete T110 Series Part Number, insert Capacitance Tolerance Symbol in the 9th Character as shown on Page 6.

(2) To complete the T212 Series Part Number, insert Failure Rate Symbol in the 13th Character.

Bold Face lines indicate popular part types and values.

*Note: D Failure Rate — Not QPL for -8304 thru -8401.



TANTALUM HERMETICALLY SEALED / AXIAL — MIL-PRF-39003
T110 SERIES — POLAR TYPE & T212 (CSR13)

RATINGS & PART NUMBER REFERENCE

| CAPACITANCE μF | CASE SIZE | CAPACITANCE TOLERANCE ±% | KEMET T110 | | | MIL-PRF-39003 (CSR13) CAPACITORS | | | | | | | | KEMET EQUIVALENT MILITARY PART NUMBER |
|---|--------------|--------------------------------|----------------------|------------------------------------|---|---|------------|-------------|--------------|----------------------------|-------------|--------------|------------------|--|
| | | | KEMET PART NUMBER | D.C. LEAKAGE μA@25°C MAX. | MAX. DISSIPATION FACTOR %@25°C, 120Hz | DASH NUMBER REFERENCE FAILURE RATE LEVEL (%/1000 HRS.) | | | | | | | | |
| | | | | | | MIL-PRF-39003/1H EXPONENTIAL | | | | MIL-PRF-39003/1H GRADED | | | | |
| | | | | | | M (1.0) | P (0.1) | R (0.01) | S (0.001) | B (0.1) | C (0.01) | D (0.001) | | |
| 100 VOLT RATING AT 85°C — 67 VOLT RATING AT 125°C (Cont'd) | | | | | | | | | | | | | | |
| 1.2 | B | 5 | T110B125J100AS | 0.5 | 3 | 5151 | 5351 | 5551 | 5751 | 6377 | 7377 | * | T212B125J100(2)S | |
| 1.2 | B | 10 | T110B125K100AS | 0.5 | 3 | 2467 | 2707 | 2947 | 3187 | 6378 | 7378 | * | T212B125K100(2)S | |
| 1.2 | B | 20 | T110B125M100AS | 0.5 | 3 | | | | | | | | | |
| 1.5 | B | 5 | T110B155J100AS | 0.7 | 3 | 5152 | 5352 | 5552 | 5752 | 6379 | 7379 | * | T212B155J100(2)S | |
| 1.5 | B | 10 | T110B155K100AS | 0.7 | 3 | 2468 | 2708 | 2948 | 3188 | 6380 | 7380 | * | T212B155K100(2)S | |
| 1.5 | B | 20 | T110B155M100AS | 0.7 | 3 | 2469 | 2709 | 2949 | 3189 | 6381 | 7381 | * | T212B155M100(2)S | |
| 1.8 | B | 5 | T110B185J100AS | 0.7 | 3 | 5153 | 5353 | 5553 | 5753 | 6382 | 7382 | * | T212B185J100(2)S | |
| 1.8 | B | 10 | T110B185K100AS | 0.7 | 3 | 2470 | 2710 | 2950 | 3190 | 6383 | 7383 | * | T212B185K100(2)S | |
| 1.8 | B | 20 | T110B185M100AS | 0.7 | 3 | | | | | | | | | |
| 2.2 | B | 5 | T110B225J100AS | 0.9 | 3 | 5154 | 5354 | 5554 | 5754 | 6384 | 7384 | * | T212B225J100(2)S | |
| 2.2 | B | 10 | T110B225K100AS | 0.9 | 3 | 2471 | 2711 | 2951 | 3191 | 6385 | 7385 | * | T212B225K100(2)S | |
| 2.2 | B | 20 | T110B225M100AS | 0.9 | 3 | 2472 | 2712 | 2952 | 3192 | 6386 | 7386 | * | T212B225M100(2)S | |
| 2.7 | B | 5 | T110B275J100AS | 1.1 | 3 | 5155 | 5355 | 5555 | 5755 | 6387 | 7387 | * | T212B275J100(2)S | |
| 2.7 | B | 10 | T110B275K100AS | 1.1 | 3 | 2473 | 2713 | 2953 | 3193 | 6388 | 7388 | * | T212B275K100(2)S | |
| 2.7 | B | 20 | T110B275M100AS | 1.1 | 3 | | | | | | | | | |
| 3.3 | C | 5 | T110C335J100AS | 1.5 | 3 | 5156 | 5356 | 5556 | 5756 | 6389 | * | * | T212C335J100(2)S | |
| 3.3 | C | 10 | T110C335K100AS | 1.5 | 3 | 5157 | 5357 | 5557 | 5757 | 6390 | * | * | T212C335K100(2)S | |
| 3.3 | C | 20 | T110C335M100AS | 1.5 | 3 | 5158 | 5358 | 5558 | 5758 | 6391 | * | * | T212C335M100(2)S | |
| 3.9 | C | 5 | T110C395J100AS | 1.5 | 3 | 5159 | 5359 | 5559 | 5759 | 6392 | * | * | T212C395J100(2)S | |
| 3.9 | C | 10 | T110C395K100AS | 1.5 | 3 | 5160 | 5360 | 5560 | 5760 | 6393 | * | * | T212C395K100(2)S | |
| 4.7 | C | 5 | T110C475J100AS | 2.5 | 3 | 5161 | 5361 | 5561 | 5761 | 6394 | * | * | T212C475J100(2)S | |
| 4.7 | C | 10 | T110C475K100AS | 2.5 | 3 | 5162 | 5362 | 5562 | 5762 | 6395 | * | * | T212C475K100(2)S | |
| 4.7 | C | 20 | T110C475M100AS | 2.5 | 3 | 5163 | 5363 | 5563 | 5763 | 6396 | * | * | T212C475M100(2)S | |
| 5.6 | C | 5 | T110C565J100AS | 2.5 | 3 | 5164 | 5364 | 5564 | 5764 | 6397 | * | * | T212C565J100(2)S | |
| 5.6 | C | 10 | T110C565K100AS | 2.5 | 3 | 5165 | 5365 | 5565 | 5765 | 6398 | * | * | T212C565K100(2)S | |
| 6.8 | C | 5 | T110C685J100AS | 2.5 | 3 | 5166 | 5366 | 5566 | 5766 | 6399 | * | * | T212C685J100(2)S | |
| 6.8 | C | 10 | T110C685K100AS | 2.5 | 3 | 5167 | 5367 | 5567 | 5767 | 6400 | * | * | T212C685K100(2)S | |
| 6.8 | C | 20 | T110C685M100AS | 2.5 | 3 | 5168 | 5368 | 5568 | 5768 | 6401 | * | * | T212C685M100(2)S | |
| 8.2 | D | 5,10,20 | T110D825(1)100AS | 5.0 | 3 | | | | | | | | | |
| 10.0 | D | 5,10,20 | T110D106(1)100AS | 5.0 | 3 | | | | | | | | | |
| 125 VOLT RATING AT 85°C — 82 VOLT RATING AT 125° | | | | | | | | | | | | | | |
| 0.0047 | A | 5,10,20 | T110A472(1)125AS | 0.5 | 3 | | | | | | | | | |
| 0.0056 | A | 5,10,20 | T110A562(1)125AS | 0.5 | 3 | | | | | | | | | |
| 0.0068 | A | 5,10,20 | T110A682(1)125AS | 0.5 | 3 | | | | | | | | | |
| 0.0082 | A | 5,10,20 | T110A822(1)125AS | 0.5 | 3 | | | | | | | | | |
| 0.01 | A | 5,10,20 | T110A103(1)125AS | 0.5 | 3 | | | | | | | | | |
| 0.012 | A | 5,10,20 | T110A123(1)125AS | 0.5 | 3 | | | | | | | | | |
| 0.015 | A | 5,10,20 | T110A153(1)125AS | 0.5 | 3 | | | | | | | | | |
| 0.018 | A | 5,10,20 | T110A183(1)125AS | 0.5 | 3 | | | | | | | | | |
| 0.022 | A | 5,10,20 | T110A223(1)125AS | 0.5 | 3 | | | | | | | | | |
| 0.027 | A | 5,10,20 | T110A273(1)125AS | 0.5 | 3 | | | | | | | | | |
| 0.033 | A | 5,10,20 | T110A333(1)125AS | 0.5 | 3 | | | | | | | | | |
| 0.039 | A | 5,10,20 | T110A393(1)125AS | 1.5 | 3 | | | | | | | | | |
| 0.047 | A | 5,10,20 | T110A473(1)125AS | 1.5 | 3 | | | | | | | | | |
| 0.056 | A | 5,10,20 | T110A563(1)125AS | 1.5 | 3 | | | | | | | | | |
| 0.068 | A | 5,10,20 | T110A683(1)125AS | 1.5 | 3 | | | | | | | | | |
| 0.082 | A | 5,10,20 | T110A823(1)125AS | 1.5 | 3 | | | | | | | | | |
| 0.1 | A | 5,10,20 | T110A104(1)125AS | 1.5 | 3 | | | | | | | | | |
| 0.12 | A | 5,10,20 | T110A124(1)125AS | 1.5 | 3 | | | | | | | | | |
| 0.15 | A | 5,10,20 | T110A154(1)125AS | 1.5 | 3 | | | | | | | | | |
| 0.18 | A | 5,10,20 | T110A184(1)125AS | 1.5 | 3 | | | | | | | | | |
| 0.22 | A | 5,10,20 | T110A224(1)125AS | 1.5 | 3 | | | | | | | | | |
| 0.27 | A | 5,10,20 | T110A274(1)125AS | 1.5 | 3 | | | | | | | | | |
| 0.33 | A | 5,10,20 | T110A334(1)125AS | 1.5 | 3 | | | | | | | | | |
| 0.39 | B | 5,10,20 | T110B394(1)125AS | 1.5 | 3 | | | | | | | | | |
| 0.47 | B | 5,10,20 | T110B474(1)125AS | 1.5 | 3 | | | | | | | | | |
| 0.56 | B | 5,10,20 | T110B564(1)125AS | 1.5 | 3 | | | | | | | | | |
| 0.68 | B | 5,10,20 | T110B684(1)125AS | 1.5 | 3 | | | | | | | | | |
| 0.82 | B | 5,10,20 | T110B824(1)125AS | 1.5 | 3 | | | | | | | | | |

(1) To complete T110 Series Part Number, insert Capacitance Tolerance Symbol in the 9th Character as shown on Page 6.

(2) To complete the T212 Series Part Number, insert Failure Rate Symbol in the 13th Character.

Bold Face lines indicate popular part types and values.

*Note: C failure rate — Not QPL for 7389 thru 7401.

D failure rate — Not QPL for -8304 thru -8401.



RATINGS & PART NUMBER REFERENCE

| CAPACITANCE μF | CASE SIZE | CAPACITANCE TOLERANCE ±% | KEMET T110 | | | MIL-PRF-39003 (CSR13) CAPACITORS | | | | | | | KEMET EQUIVALENT MILITARY PART NUMBER |
|--|--------------|--------------------------------|----------------------|------------------------------------|---|---|------------|-------------|--------------|----------------------------|-------------|--------------|--|
| | | | KEMET PART NUMBER | D.C. LEAKAGE μA@25°C MAX. | MAX. DISSIPATION FACTOR %@25°C, 120Hz | DASH NUMBER REFERENCE FAILURE RATE LEVEL (%/1000 HRS.) | | | | | | | |
| | | | | | | MIL-PRF-39003/1H EXPONENTIAL | | | | MIL-PRF-39003/1H GRADED | | | |
| | | | | | | M (1.0) | P (0.1) | R (0.01) | S (0.001) | B (0.1) | C (0.01) | D (0.001) | |
| 125 VOLT RATING AT 85°C — 82 VOLT RATING AT 125°C | | | | | | | | | | | | | |
| 1.0 | B | 5,10,20 | T110B105(1)125AS | 1.5 | 3 | | | | | | | | |
| 1.2 | B | 5,10,20 | T110B125(1)125AS | 1.5 | 3 | | | | | | | | |
| 1.5 | B | 5,10,20 | T110B155(1)125AS | 1.5 | 3 | | | | | | | | |
| 1.8 | B | 5,10,20 | T110B185(1)125AS | 1.5 | 3 | | | | | | | | |
| 2.2 | B | 5,10,20 | T110B225(1)125AS | 1.5 | 3 | | | | | | | | |
| 2.7 | C | 5,10,20 | T110C275(1)125AS | 2.0 | 3 | | | | | | | | |
| 3.3 | C | 5,10,20 | T110C335(1)125AS | 2.0 | 3 | | | | | | | | |
| 3.9 | C | 5,10,20 | T110C395(1)125AS | 2.0 | 3 | | | | | | | | |
| 4.7 | C | 5,10,20 | T110C475(1)125AS | 3.0 | 3 | | | | | | | | |
| 5.6 | C | 5,10,20 | T110C565(1)125AS | 3.0 | 3 | | | | | | | | |
| 6.8 | C | 5,10,20 | T110C685(1)125AS | 3.0 | 3 | | | | | | | | |
| 8.2 | D | 5,10,20 | T110D825(1)125AS | 6.0 | 3 | | | | | | | | |
| 10.0 | D | 5,10,20 | T110D106(1)125AS | 6.0 | 3 | | | | | | | | |

(1) To complete T110 Series Part Number, insert Capacitance Tolerance Symbol in the 9th Character as shown on Page 6.
(2) To complete the T212 Series Part Number, insert Failure Rate Symbol in the 13th Character.
Bold Face lines indicate popular part types and values.

T110/T212 Series Tantalum
Hermetically Sealed

T110/T140 Herm Seal 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 T110/T140 Series product.)

| Cap μF | 6 Volt | 10 Volt | 15 Volt | 20 Volt | 30 Volt | 35 Volt | 50 Volt | 60 Volt | 75 Volt | 100 Volt | 125 Volt |
|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|
| 0.10 | | | | 37.0 | | 26.0 | 26.0 | 26.0 | 26.0 | 25.0 | 25.0 |
| 0.12 | | | | 37.0 | | 26.0 | 26.0 | 26.0 | 26.0 | 25.0 | 25.0 |
| 0.15 | | | | 32.0 | | 21.0 | 21.0 | 21.0 | 21.0 | 20.0 | 20.0 |
| 0.18 | | | | 32.0 | | 21.0 | 21.0 | 21.0 | 21.0 | 20.0 | 20.0 |
| 0.22 | | | | 27.0 | | 17.0 | 17.0 | 17.0 | 17.0 | 16.0 | 16.0 |
| 0.27 | | | | 25.0 | | 17.0 | 17.0 | 17.0 | 17.0 | 16.0 | 16.0 |
| 0.33 | | | 28.0 | 22.0 | | 15.0 | 15.0 | 15.0 | 15.0 | 14.0 | 14.0 |
| 0.39 | | | 28.0 | 22.0 | | 15.0 | 15.0 | 15.0 | 15.0 | 14.0 | 14.0 |
| 0.47 | | | 26.0 | 20.0 | | 13.0 | 13.0 | 13.0 | 13.0 | 12.0 | 12.0 |
| 0.56 | | | 26.0 | 18.0 | | 13.0 | 13.0 | 13.0 | 13.0 | 12.0 | 12.0 |
| 0.68 | | | 24.0 | 16.0 | | 10.0 | 10.0 | 10.0 | 10.0 | 9.0 | 9.0 |
| 0.82 | | | 24.0 | 16.0 | | 10.0 | 10.0 | 10.0 | 10.0 | 9.0 | 9.0 |
| 1.0 | 20.0 | 17.0 | 10.0 | | | 8.0 | 8.0 | 8.0 | 8.0 | 7.0 | 7.0 |
| 1.2 | 20.0 | 17.0 | 10.0 | | 9.0 | 8.0 | 8.0 | 8.0 | 8.0 | 7.0 | 7.0 |
| 1.5 | 14.0 | 10.0 | 9.0 | 8.0 | | 6.0 | 5.0 | 5.0 | 5.0 | 4.0 | 4.0 |
| 1.8 | 14.0 | 10.0 | 9.0 | 8.0 | 6.0 | 5.0 | 5.0 | 5.0 | 5.0 | 4.0 | 4.0 |
| 2.2 | 14.0 | 13.0 | 8.0 | 7.0 | 6.0 | 5.0 | 3.5 | 3.5 | 3.5 | 3.0 | 3.0 |
| 2.7 | 14.0 | 13.0 | 8.0 | 7.0 | 6.0 | 5.0 | 3.5 | 3.5 | 3.5 | 3.0 | 3.0 |
| 3.3 | 13.0 | 10.0 | 6.0 | 5.5 | | 4.0 | 3.0 | 3.0 | 3.0 | 2.5 | 2.5 |
| 3.9 | 13.0 | 10.0 | 6.0 | 5.5 | | 4.0 | 3.0 | 3.0 | 3.0 | 2.5 | 2.5 |
| 4.7 | 10.0 | 8.0 | 5.0 | 4.5 | | 3.0 | 2.5 | 2.5 | 2.5 | 2.0 | 2.0 |
| 5.6 | 10.0 | 8.0 | 5.0 | 4.5 | | 3.0 | 2.5 | 2.5 | 2.5 | 2.0 | 2.0 |
| 6.8 | 8.0 | 6.0 | 4.0 | 3.6 | | 2.5 | 2.0 | 2.0 | 2.0 | 1.5 | 1.5 |
| 8.2 | 8.0 | 6.0 | 4.0 | 3.6 | | 2.5 | 2.0 | 2.0 | 2.0 | 1.5 | 1.5 |
| 10.0 | 6.0 | 5.0 | 3.2 | 2.9 | | 2.0 | 1.6 | 1.6 | 1.6 | 1.0 | 1.0 |
| 12.0 | 6.0 | 5.0 | 3.2 | 2.9 | 2.5 | 2.0 | 1.6 | 1.6 | 1.6 | | |
| 15.0 | 5.0 | 3.7 | 2.5 | 2.3 | 2.0 | 1.6 | 1.2 | 1.2 | 1.2 | | |
| 18.0 | 5.0 | 3.7 | 2.5 | 2.3 | 2.0 | 1.6 | 1.2 | 1.2 | 1.2 | | |
| 22.0 | 3.7 | 2.7 | 2.0 | 1.8 | | 1.3 | 1.0 | 1.0 | | | |
| 27.0 | 3.7 | 2.7 | 2.0 | 1.8 | | 1.3 | 1.0 | 1.0 | | | |
| 33.0 | 3.0 | 2.1 | 1.6 | 1.4 | 1.2 | 1.0 | 0.8 | 0.8 | | | |
| 39.0 | 3.0 | 2.1 | 1.6 | 1.4 | 1.2 | 1.0 | 0.8 | | | | |
| 47.0 | 2.0 | 1.7 | 1.3 | 1.2 | 1.0 | 0.8 | 0.6 | | | | |
| 56.0 | 2.0 | 1.7 | 1.3 | 1.2 | 1.0 | 0.8 | | | | | |
| 68.0 | 1.8 | 1.3 | 1.0 | 0.9 | 0.8 | 0.6 | | | | | |
| 82.0 | 1.8 | 1.3 | 1.0 | 0.9 | 0.8 | 0.6 | | | | | |
| 100.0 | 1.6 | 1.0 | 0.8 | 0.6 | 0.5 | | | | | | |
| 120.0 | 1.6 | 1.0 | 0.8 | 0.6 | | | | | | | |
| 150.0 | 0.9 | 0.8 | 0.6 | 0.5 | | | | | | | |
| 180.0 | 0.9 | 0.8 | 0.6 | 0.5 | | | | | | | |
| 220.0 | 0.9 | 0.6 | 0.5 | | | | | | | | |
| 270.0 | 0.9 | 0.6 | 0.5 | | | | | | | | |
| 330.0 | 0.7 | 0.5 | 0.4 | | | | | | | | |
| 390.0 | 0.7 | 0.5 | | | | | | | | | |
| 470.0 | 0.5 | 0.5 | | | | | | | | | |
| 560.0 | 0.5 | 0.5 | | | | | | | | | |
| 680.0 | 0.3 | | | | | | | | | | |
| 820.0 | 0.3 | | | | | | | | | | |
| 1000.0 | 0.12 | | | | | | | | | | |
| 1200.0 | 0.12 | | | | | | | | | | |

T110 Herm Seal LOW ESR (OHMS) at 100 kHz @ +25°C
The ESR values provided below may be ordered using KEMET Customer Specification 2864.

| Cap μF | 6 Volt | 10 Volt | 15 Volt | 20 Volt | 35 Volt | 50 Volt |
|-----------|-----------|------------|------------|------------|------------|------------|
| 5.6 | | | | | | 0.300 |
| 6.8 | | | | | | 0.275 |
| 8.2 | | | | | 0.250 | 0.250 |
| 10.0 | | | | | 0.230 | 0.230 |
| 12.0 | | | | | 0.210 | 0.210 |
| 15.0 | | | | | 0.190 | 0.190 |
| 18.0 | | | | | 0.175 | 0.175 |
| 22.0 | | | | | 0.160 | 0.160 |
| 27.0 | | | | 0.145 | 0.145 | |
| 33.0 | | | | 0.130 | 0.130 | |
| 39.0 | | | | 0.120 | 0.120 | |
| 47.0 | | | | 0.110 | 0.110 | |
| 56.0 | | | 0.100 | 0.100 | | |
| 68.0 | | | 0.095 | 0.095 | | |
| 82.0 | | 0.085 | 0.085 | 0.085 | | |
| 100.0 | | 0.075 | 0.075 | 0.075 | | |
| 120.0 | | 0.070 | 0.070 | | | |
| 150.0 | 0.065 | 0.065 | | | | |
| 180.0 | 0.060 | 0.060 | | | | |
| 220.0 | 0.055 | 0.055 | | | | |
| 270.0 | 0.050 | | | | | |
| 330.0 | 0.045 | | | | | |

Primarily designed for use in tuned low frequency circuits, phasing low voltage AC motors, servo systems and other applications where reversal of polarity is a primary consideration. The T111 unit consists of two polar T110 Series hermetically sealed tantalum capacitors, electrically and mechanically connected back-to-back and supported by an outer

corrosion-resistant metal sleeve. They exhibit comparable electrical and performance characteristics of T110 Series. Available in capacitance values ranging from .0023 to 160 μF in $\pm 20\%$, $\pm 10\%$, and $\pm 5\%$ tolerances in working voltages from 6 to 100 VDC at $+85^\circ\text{C}$. Also, the following table includes M39003/4 QPL Product.

DIMENSIONS — INCHES & (MILLIMETERS)

| CASE SIZE | B ± 0.002 ($\pm .05$) | UNINSULATED | | INSULATED | | C MAX. |
|-----------|--------------------------------|--------------------------------|--------------------------------|--|--------------------------------|---------------|
| | | D ± 0.010 ($\pm .25$) | L ± 0.031 ($\pm .79$) | D ± 0.010 ($\pm .25$) -0.015 ($\pm .38$) | L ± 0.031 ($\pm .79$) | |
| A | 0.020 (.51) | 0.147 (3.73) | 0.565 (14.35) | 0.161 (4.09) | 0.575 (14.61) | 0.750 (19.05) |
| B | 0.020 (.51) | 0.194 (4.93) | 0.916 (23.27) | 0.207 (5.26) | 0.955 (24.26) | 1.130 (28.70) |
| C | 0.025 (.64) | 0.300 (7.62) | 1.340 (34.04) | 0.314 (7.98) | 1.350 (34.29) | 1.525 (38.74) |
| D | 0.025 (.64) | 0.362 (9.19) | 1.540 (39.12) | 0.376 (9.55) | 1.550 (39.37) | 1.725 (43.82) |

MARKING INFORMATION* A, B, C & D CASES

| | |
|-------------------|--|
| K 10% | — Manufacturer's Classification and Tolerance |
| 6R0 μF | — Normal Capacitance — (μF) ("R" indicates decimal) |
| 20V | — Voltage |
| 0325AB | — Date Code and Batch Code |

CAPACITOR OUTLINE DRAWINGS



* For Military Marking, see page 4.

RATINGS & PART NUMBER REFERENCE

| CAPACITANCE μF | CASE SIZE | CAPACITANCE TOLERANCE $\pm\%$ | KEMET T111 SERIES | | | MIL-PRF-39003 (CSR91) CAPACITORS | | | | | | | KEMET EQUIVALENT MILITARY PART NUMBER |
|--|--------------|-------------------------------------|----------------------|--|--|---|------------|-------------|--------------|----------------------------|-------------|--------------|--|
| | | | KEMET PART NUMBER | D.C. LEAKAGE μA @25°C MAX. | MAX. DISSIP- ATION FACTOR %@25°C, 120Hz | DASH NUMBER REFERENCE FAILURE RATE LEVEL (%/1000 HRS.) | | | | | | | |
| | | | | | | MIL-PRF-39003/4C EXPONENTIAL | | | | MIL-PRF-39003/4C GRADED | | | |
| | | | | | | M (1.0) | P (0.1) | R (0.01) | S (0.001) | B (0.1) | C (0.01) | D (0.001) | |
| 6 VOLT RATING AT 85°C — 4 VOLT RATING AT 125°C | | | | | | | | | | | | | |
| 2.8 | A | 10 | T111A285K006AS | 0.3 | 4 | 0221 | 0441 | 0661 | 0881 | 3001 | 4001 | 5001 | T213A285K006(1)S |
| 3.4 | A | 10 | T111A345K006AS | 0.3 | 6 | 0222 | 0442 | 0662 | 0882 | 3002 | 4002 | 5002 | T213A345K006(1)S |
| 3.4 | A | 20 | T111A345M006AS | 0.3 | 6 | 0223 | 0443 | 0663 | 0883 | 3003 | 4003 | 5003 | T213A345M006(1)S |
| 23.0 | B | 10 | T111B236K006AS | 1.5 | 6 | 0224 | 0444 | 0664 | 0884 | 3004 | 4004 | 5004 | T213B236K006(1)S |
| 23.0 | B | 20 | T111B236M006AS | 1.5 | 6 | 0225 | 0445 | 0665 | 0885 | 3005 | 4005 | 5005 | T213B236M006(1)S |
| 28.0 | B | 10 | T111B286K006AS | 1.5 | 6 | 0226 | 0446 | 0666 | 0886 | 3006 | 4006 | 5006 | T213B286K006(1)S |
| 75.0 | C | 10 | T111C756K006AS | 4.5 | 6 | 0227 | 0447 | 0667 | 0887 | 3007 | 4007 | 5007 | T213C756K006(1)S |
| 75.0 | C | 20 | T111C756M006AS | 4.5 | 6 | 0228 | 0448 | 0668 | 0888 | 3008 | 4008 | 5008 | T213C756M006(1)S |
| 90.0 | C | 10 | T111C906K006AS | 4.5 | 6 | 0229 | 0449 | 0669 | 0889 | 3009 | 4009 | 5009 | T213C906K006(1)S |
| 90.0 | C | 20 | T111C906M006AS | 5.5 | 6 | 0230 | 0450 | 0670 | 0890 | | | | T213C906M006(1)S |
| 130.0 | D | 10 | T111D137K006AS | 6.0 | 8 | 0231 | 0451 | 0671 | 0891 | 3010 | 4010 | 5010 | T213D137K006(1)S |
| 130.0 | D | 20 | T111D137M006AS | 6.0 | 8 | 0232 | 0452 | 0672 | 0892 | | | | T213D137M006(1)S |
| 160.0 | D | 10 | T111D167K006AS | 7.5 | 8 | 0233 | 0453 | 0673 | 0893 | 3011 | 4011 | 5011 | T213D167K006(1)S |
| 160.0 | D | 20 | T111D167M006AS | 7.5 | 8 | 0234 | 0454 | 0674 | 0894 | 3012 | 4012 | 5012 | T213D167M006(1)S |
| 10 VOLT RATING AT 85°C — 7 VOLT RATING AT 125°C | | | | | | | | | | | | | |
| 1.9 | A | 10 | T111A195K010AS | 0.3 | 4 | 0235 | 0455 | 0675 | 0895 | 3013 | 4013 | 5013 | T213A195K010(1)S |
| 2.3 | A | 10 | T111A235K010AS | 0.4 | 4 | 0236 | 0456 | 0676 | 0896 | 3014 | 4014 | 5014 | T213A235K010(1)S |
| 2.3 | A | 20 | T111A235M010AS | 0.4 | 4 | 0237 | 0457 | 0677 | 0897 | 3015 | 4015 | 5015 | T213A235M010(1)S |
| 13.0 | B | 10 | T111B136K010AS | 2.0 | 6 | 0238 | 0458 | 0678 | 0898 | 3016 | 4016 | 5016 | T213B136K010(1)S |
| 16.0 | B | 10 | T111B166K010AS | 2.0 | 6 | 0239 | 0459 | 0679 | 0899 | 3017 | 4017 | 5017 | T213B166K010(1)S |
| 16.0 | B | 20 | T111B166M010AS | 2.0 | 6 | 0240 | 0460 | 0680 | 0900 | 3018 | 4018 | 5018 | T213B166M010(1)S |
| 19.0 | B | 10 | T111B196K010AS | 2.0 | 6 | 0241 | 0461 | 0681 | 0901 | 3019 | 4019 | 5019 | T213B196K010(1)S |
| 41.0 | C | 10 | T111C416K010AS | 3.0 | 6 | 0242 | 0462 | 0682 | 0902 | 3020 | 4020 | 5020 | T213C416K010(1)S |
| 50.0 | C | 10 | T111C506K010AS | 5.0 | 6 | 0243 | 0463 | 0683 | 0903 | 3021 | 4021 | 5021 | T213C506K010(1)S |
| 50.0 | C | 20 | T111C506M010AS | 5.0 | 6 | 0244 | 0464 | 0684 | 0904 | 3022 | 4022 | 5022 | T213C506M010(1)S |
| 60.0 | C | 10 | T111C606K010AS | 6.0 | 6 | 0245 | 0465 | 0685 | 0905 | 3023 | 4023 | 5023 | T213C606K010(1)S |
| 60.0 | C | 20 | T111C606M010AS | 6.0 | 6 | 0246 | 0466 | 0686 | 0906 | | | | T213C606M010(1)S |
| 90.0 | D | 10 | T111D906K010AS | 9.0 | 6 | 0247 | 0467 | 0687 | 0907 | 3024 | 4024 | 5024 | T213D906K010(1)S |
| 110.0 | D | 10 | T111D117K010AS | 10.0 | 8 | 0248 | 0468 | 0688 | 0908 | 3025 | 4025 | 5025 | T213D117K010(1)S |
| 110.0 | D | 20 | T111D117M010AS | 10.0 | 8 | 0249 | 0469 | 0689 | 0909 | 3026 | 4026 | 5026 | T213D117M010(1)S |

(1) To complete T213 Series Part Number, insert Failure Rate Symbol in the 13th Character as shown on Page 6.

*For ordering information see page 4 (military) and page 6.

RATINGS & PART NUMBER REFERENCE

| CAPACITANCE μF | CASE SIZE | CAPACITANCE TOLERANCE $\pm\%$ | KEMET T111 SERIES | | | MIL-PRF-39003 (CSR91) CAPACITORS | | | | | | | | KEMET EQUIVALENT MILITARY PART NUMBER |
|---|--------------|-------------------------------------|----------------------|---|---|---|------------|--------------|--------------|----------------------------|------------|--------------|------------------|--|
| | | | KEMET PART NUMBER | D.C. LEAKAGE $\mu\text{A}@25^\circ\text{C}$ MAX. | MAX. DISS- PATION FACTOR $\%@25^\circ\text{C}$, 120Hz | DASH NUMBER REFERENCE FAILURE RATE LEVEL (%/1000 HRS.) | | | | | | | | |
| | | | | | | MIL-PRF-39003/4C EXPONENTIAL | | | | MIL-PRF-39003/4C GRADED | | | | |
| | | | | | | M (1.0) | P (0.1) | R (0.001) | S (0.001) | (B 1) | (C 0.1) | (D 0.001) | (D 0.001) | |
| 15 VOLT RATING AT 85°C — 10 VOLT RATING AT 125°C | | | | | | | | | | | | | | |
| 1.3 | A | 10 | T111A135K015AS | 0.3 | 4 | 0250 | 0470 | 0690 | 0910 | 3027 | 4027 | 5027 | T213A135K015(1)S | |
| 1.6 | A | 10 | T111A165K015AS | 0.4 | 4 | 0251 | 0471 | 0691 | 0911 | 3028 | 4028 | 5028 | T213A165K015(1)S | |
| 1.6 | A | 20 | T111A165M015AS | 0.4 | 4 | 0252 | 0472 | 0692 | 0912 | 3029 | 4029 | 5029 | T213A165M015(1)S | |
| 9.0 | B | 10 | T111B905K015AS | 2.0 | 6 | 0253 | 0473 | 0693 | 0913 | 3030 | 4030 | 5030 | T213B905K015(1)S | |
| 11.0 | B | 10 | T111B116K015AS | 2.0 | 6 | 0254 | 0474 | 0694 | 0914 | 3031 | 4031 | 5031 | T213B116K015(1)S | |
| 11.0 | B | 20 | T111B116M015AS | 2.0 | 6 | 0255 | 0475 | 0695 | 0915 | 3032 | 4032 | 5032 | T213B116M015(1)S | |
| 28.0 | C | 10 | T111C286K015AS | 4.0 | 6 | 0256 | 0476 | 0696 | 0916 | 3033 | 4033 | 5033 | T213C286K015(1)S | |
| 34.0 | C | 10 | T111C346K015AS | 5.0 | 6 | 0257 | 0477 | 0697 | 0917 | 3034 | 4034 | 5034 | T213C346K015(1)S | |
| 34.0 | C | 20 | T111C346M015AS | 5.0 | 6 | 0258 | 0478 | 0698 | 0918 | 3035 | 4035 | 5035 | T213C346M015(1)S | |
| 60.0 | D | 10 | T111D606K015AS | 6.0 | 6 | 0259 | 0479 | 0699 | 0919 | 3036 | 4036 | 5036 | T213D606K015(1)S | |
| 75.0 | D | 10 | T111D756K015AS | 10.0 | 6 | 0260 | 0480 | 0700 | 0920 | 3037 | 4037 | 5037 | T213D756K015(1)S | |
| 75.0 | D | 20 | T111D756M015AS | 10.0 | 6 | 0261 | 0481 | 0701 | 0921 | 3038 | 4038 | 5038 | T213D756M015(1)S | |
| 20 VOLT RATING AT 85°C — 13 VOLT RATING AT 125°C | | | | | | | | | | | | | | |
| 0.6 | A | 10 | T111A604K020AS | 0.3 | 4 | 0262 | 0482 | 0702 | 0922 | 3039 | 4039 | 5039 | T213A604K020(1)S | |
| 0.75 | A | 10 | T111A754K020AS | 0.3 | 4 | 0263 | 0483 | 0703 | 0923 | 3040 | 4040 | 5040 | T213A754K020(1)S | |
| 0.75 | A | 20 | T111A754M020AS | 0.3 | 4 | 0264 | 0484 | 0704 | 0924 | 3041 | 4041 | 5041 | T213A754M020(1)S | |
| 0.9 | A | 10 | T111A904K020AS | 0.3 | 4 | 0265 | 0485 | 0705 | 0925 | 3042 | 4042 | 5042 | T213A904K020(1)S | |
| 1.1 | A | 10 | T111A115K020AS | 0.4 | 4 | 0266 | 0486 | 0706 | 0926 | 3043 | 4043 | 5043 | T213A115K020(1)S | |
| 1.1 | A | 20 | T111A115M020AS | 0.4 | 4 | 0267 | 0487 | 0707 | 0927 | 3044 | 4044 | 5044 | T213A115M020(1)S | |
| 4.1 | B | 10 | T111B415K020AS | 1.0 | 6 | 0268 | 0488 | 0708 | 0928 | 3045 | 4045 | 5045 | T213B415K020(1)S | |
| 5.0 | B | 10 | T111B505K020AS | 1.0 | 6 | 0269 | 0489 | 0709 | 0929 | 3046 | 4046 | 5046 | T213B505K020(1)S | |
| 5.0 | B | 20 | T111B505M020AS | 1.0 | 6 | 0270 | 0490 | 0710 | 0930 | 3047 | 4047 | 5047 | T213B505M020(1)S | |
| 6.0 | B | 10 | T111B605K020AS | 1.0 | 6 | 0271 | 0491 | 0711 | 0931 | 3048 | 4048 | 5048 | T213B605K020(1)S | |
| 7.5 | B | 10 | T111B755K020AS | 2.0 | 6 | 0272 | 0492 | 0712 | 0932 | 3049 | 4049 | 5049 | T213B755K020(1)S | |
| 7.5 | B | 20 | T111B755M020AS | 2.0 | 6 | 0273 | 0493 | 0713 | 0933 | 3050 | 4050 | 5050 | T213B755M020(1)S | |
| 13.0 | C | 10 | T111C136K020AS | 2.5 | 6 | 0274 | 0494 | 0714 | 0934 | 3051 | 4051 | 5051 | T213C136K020(1)S | |
| 16.0 | C | 10 | T111C166K020AS | 3.0 | 6 | 0275 | 0495 | 0715 | 0935 | 3052 | 4052 | 5052 | T213C166K020(1)S | |
| 16.0 | C | 20 | T111C166M020AS | 3.0 | 6 | 0276 | 0496 | 0716 | 0936 | 3053 | 4053 | 5053 | T213C166M020(1)S | |
| 19.0 | C | 10 | T111C196K020AS | 3.0 | 6 | 0277 | 0497 | 0717 | 0937 | 3054 | 4054 | 5054 | T213C196K020(1)S | |
| 23.0 | C | 10 | T111C236K020AS | 4.5 | 6 | 0278 | 0498 | 0718 | 0938 | 3055 | 4055 | 5055 | T213C236K020(1)S | |
| 23.0 | C | 20 | T111C236M020AS | 4.5 | 6 | 0279 | 0499 | 0719 | 0939 | 3056 | 4056 | 5056 | T213C236M020(1)S | |
| 28.0 | D | 10 | T111D286K020AS | 5.5 | 6 | 0280 | 0500 | 0720 | 0940 | 3057 | 4057 | 5057 | T213D286K020(1)S | |
| 34.0 | D | 10 | T111D346K020AS | 6.0 | 6 | 0281 | 0501 | 0721 | 0941 | 3058 | 4058 | 5058 | T213D346K020(1)S | |
| 34.0 | D | 20 | T111D346M020AS | 6.0 | 6 | 0282 | 0502 | 0722 | 0942 | 3059 | 4059 | 5059 | T213D346M020(1)S | |
| 41.0 | D | 10 | T111D416K020AS | 6.0 | 6 | 0283 | 0503 | 0723 | 0943 | 3060 | 4060 | 5060 | T213D416K020(1)S | |
| 50.0 | D | 10 | T111D506K020AS | 10.0 | 6 | 0284 | 0504 | 0724 | 0944 | 3061 | 4061 | 5061 | T213D506K020(1)S | |
| 50.0 | D | 20 | T111D506M020AS | 10.0 | 6 | 0285 | 0505 | 0725 | 0945 | 3062 | 4062 | 5062 | T213D506M020(1)S | |
| 35 VOLT RATING AT 85°C — 23 VOLT RATING AT 125°C | | | | | | | | | | | | | | |
| 2.8 | B | 10 | T111B285K035AS | 1.0 | 4 | 0289 | 0509 | 0729 | 0949 | 3063 | 4063 | 5063 | T213B285K035(1)S | |
| 3.4 | B | 10 | T111B345K035AS | 1.5 | 4 | 0290 | 0510 | 0730 | 0950 | 3064 | 4064 | 5064 | T213B345K035(1)S | |
| 3.4 | B | 20 | T111B345M035AS | 1.5 | 4 | 0291 | 0511 | 0731 | 0951 | 3065 | 4065 | 5065 | T213B345M035(1)S | |
| 11.0 | C | 10 | T111C116K035AS | 4.0 | 4 | 0292 | 0512 | 0732 | 0952 | 3066 | 4066 | 5066 | T213C116K035(1)S | |
| 11.0 | C | 20 | T111C116M035AS | 4.0 | 4 | 0293 | 0513 | 0733 | 0953 | 3067 | 4067 | 5067 | T213C116M035(1)S | |
| 13.0 | D | 10 | T111D136K035AS | 4.5 | 4 | 0294 | 0514 | 0734 | 0954 | 3068 | 4068 | 5068 | T213D136K035(1)S | |
| 16.0 | D | 10 | T111D166K035AS | 5.5 | 4 | 0295 | 0515 | 0735 | 0955 | 3069 | 4069 | 5069 | T213D166K035(1)S | |
| 16.0 | D | 20 | T111D166M035AS | 5.5 | 4 | 0296 | 0516 | 0736 | 0956 | 3070 | 4070 | 5070 | T213D166M035(1)S | |
| 19.0 | D | 10 | T111D196K035AS | 6.0 | 4 | 0297 | 0517 | 0737 | 0957 | 3071 | 4071 | 5071 | T213D196K035(1)S | |
| 23.0 | D | 10 | T111D236K035AS | 8.0 | 4 | 0298 | 0518 | 0738 | 0958 | 3072 | 4072 | 5072 | T213D236K035(1)S | |
| 23.0 | D | 20 | T111D236M035AS | 8.0 | 4 | 0299 | 0519 | 0739 | 0959 | 3073 | 4073 | 5073 | T213D236M035(1)S | |
| 50 VOLT RATING AT 85°C — 33 VOLT RATING AT 125°C | | | | | | | | | | | | | | |
| 0.0023 | A | 10 | T111A232K050AS | 0.1 | 2 | 1171 | 1241 | 1311 | 1381 | 3074 | 4074 | 5074 | T213A232K050(1)S | |
| 0.0023 | A | 20 | T111A232M050AS | 0.1 | 2 | 1172 | 1242 | 1312 | 1382 | 3075 | 4075 | 5075 | T213A232M050(1)S | |
| 0.0028 | A | 10 | T111A282K050AS | 0.1 | 2 | 1173 | 1243 | 1313 | 1383 | 3076 | 4076 | 5076 | T213A282K050(1)S | |
| 0.0034 | A | 10 | T111A342K050AS | 0.1 | 2 | 1174 | 1244 | 1314 | 1384 | 3077 | 4077 | 5077 | T213A342K050(1)S | |
| 0.0034 | A | 20 | T111A342M050AS | 0.1 | 2 | 1175 | 1245 | 1315 | 1385 | 3078 | 4078 | 5078 | T213A342M050(1)S | |
| 0.0041 | A | 10 | T111A412K050AS | 0.1 | 2 | 1176 | 1246 | 1316 | 1386 | 3079 | 4079 | 5079 | T213A412K050(1)S | |
| 0.005 | A | 10 | T111A502K050AS | 0.1 | 2 | 1177 | 1247 | 1317 | 1387 | 3080 | 4080 | 5080 | T213A502K050(1)S | |
| 0.005 | A | 20 | T111A502M050AS | 0.1 | 2 | 1178 | 1248 | 1318 | 1388 | 3081 | 4081 | 5081 | T213A502M050(1)S | |
| 0.006 | A | 10 | T111A602K050AS | 0.1 | 2 | 1179 | 1249 | 1319 | 1389 | 3082 | 4082 | 5082 | T213A602K050(1)S | |
| 0.0075 | A | 10 | T111A752K050AS | 0.1 | 2 | 1180 | 1250 | 1320 | 1390 | 3083 | 4083 | 5083 | T213A752K050(1)S | |
| 0.0075 | A | 20 | T111A752M050AS | 0.1 | 2 | 1181 | 1251 | 1321 | 1391 | 3084 | 4084 | 5084 | T213A752M050(1)S | |
| 0.009 | A | 10 | T111A902K050AS | 0.1 | 2 | 1182 | 1252 | 1322 | 1392 | 3085 | 4085 | 5085 | T213A902K050(1)S | |
| 0.011 | A | 10 | T111A113K050AS | 0.1 | 2 | 1183 | 1253 | 1323 | 1393 | 3086 | 4086 | 5086 | T213A113K050(1)S | |
| 0.011 | A | 20 | T111A113M050AS | 0.1 | 2 | 1184 | 1254 | 1324 | 1394 | 3087 | 4087 | 5087 | T213A113M050(1)S | |
| 0.013 | A | 10 | T111A133K050AS | 0.1 | 2 | 1185 | 1255 | 1325 | 1395 | 3088 | 4088 | 5088 | T213A133K050(1)S | |
| 0.016 | A | 10 | T111A163K050AS | 0.1 | 2 | 1186 | 1256 | 1326 | 1396 | 3089 | 4089 | 5089 | T213A163K050(1)S | |

(1) To complete T213 Series Part Number, insert Failure Rate Symbol in the 13th Character as shown on Page 6.

KEMET ultra-miniature T222 Series solid tantalum capacitors are designed especially for miniaturization.

The T222 Series capacitors employ a unique glass-to-metal compression end seal which has no protruding eyelet. This flush end seal construction makes T222 Series capacitors ideally suited for all miniature high density packaging applications. The capacitors con-

sist of a dry porous tantalum pellet hermetically sealed in a solder coated metal case with solder coated alloy 52 and solder coated nickel leads.

The T222 series is approved to MIL-PRF-39003/2, all ratings and failure rates.

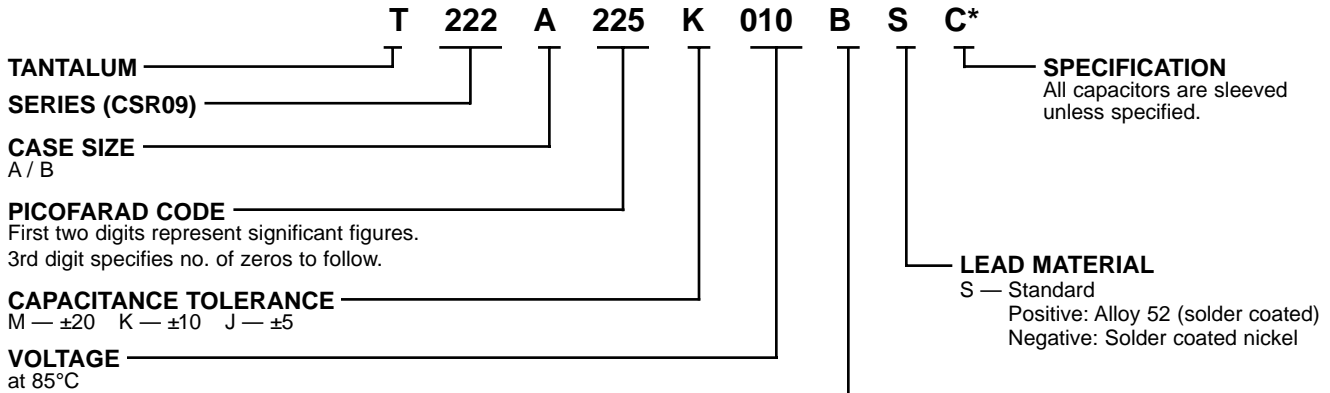
CAPACITOR OUTLINE DRAWINGS



DIMENSIONS — INCHES & (MILLIMETERS)

| CASE SIZE | UNINSULATED | | INSULATED | | B WIRE DIAMETER |
|-----------|-----------------|---|--------------------------|---|--|
| | D ±0.005 (±.13) | L | D | L | |
| A | .085 (2.16) | .245 + .015 (6.22 + .38) - .010 (-.25) | .090 ± .009 (2.29 ± .23) | .250 + .031 (6.35 + .79) - .015 (-.38) | .016 + .005 (.41 + .13) - .001 (-.03) |
| B | .127 (3.23) | .375 ± .015 (.53 ± .38) | .138 ± .010 (3.51 ± .25) | .390 ± .015 (9.91 ± .38) | .016 + .005 (.41 + .13) - .001 (-.03) |

ORDERING INFORMATION



*Part Number Example: T222A225K010BS (14 digits - no spaces)

FAILURE RATE LEVEL**

| | |
|-------------------|--------------------|
| GRADED | EXPONENTIAL |
| B — 0.1%/k hrs. | M — 1%/k hrs. |
| C — 0.01%/k hrs. | P — 0.1%/k hrs. |
| D — 0.001%/k hrs. | R — 0.01%/k hrs. |
| . | S — 0.001%/k hrs. |

**Failure Rates apply only to military products
For Military Ordering, see page 4.

CSR09 CAPACITOR MARKINGS PER MIL-PRF-39003

| | |
|--------|--|
| 39003 | — Military specification number |
| 02 - K | — Specification sheet number and trademark |
| 2961J | — Nonsignificant dash number and "J" for JAN |
| +333 | — Polarity, date code (1st digit indicates year and the next two digits indicate the week) |
| XX | — and lot symbol |

RATINGS & PART NUMBER REFERENCE

| CAPACITANCE µF | CASE SIZE | CAPACITANCE TOLERANCE ±% | KEMET T222 SERIES | | | MIL-PRF-39003 (CSR09) CAPACITORS | | | | | | |
|---|---|--|---|--|---|--|--|--|--|--|--|--|
| | | | KEMET PART NUMBER | D.C. LEAKAGE µA@25°C MAX. | MAX. DISSIPATION FACTOR %@25°C, 120Hz | DASH NUMBER REFERENCE FAILURE RATE LEVEL (%/1000 HRS.) | | | | | | |
| | | | | | | MIL-PRF-39003/2D EXPONENTIAL | | | | MIL-PRF-39003/2D GRADED | | |
| | | | | | | M (1.0) | P (0.1) | R (0.01) | S (0.001) | B (0.1) | C (0.01) | D (0.001) |
| 6 VOLT RATING AT 85°C — 4 VOLT RATING AT 125°C | | | | | | | | | | | | |
| 2.7 2.7 | A A | 5 10 | T222A275J006(1)S T222A275K006(1)S | 0.6 0.6 | 6 6 | 1001 0001 | 1061 0061 | 1121 0121 | 1181 0181 | 2001 2002 | 3001 3002 | 4001 4002 |
| 18.0 18.0 | B B | 5 10 | T222B186J006(1)S T222B186K006(1)S | 1.4 1.4 | 6 6 | 1002 0002 | 1062 0062 | 1122 0122 | 1182 0182 | 2003 2004 | 3003 3004 | 4003 4004 |
| 10 VOLT RATING AT 85°C — 7 VOLT RATING AT 125°C | | | | | | | | | | | | |
| 1.8 1.8 2.2 2.2 | A A A A | 5 10 5 10 | T222A185J010(1)S T222A185K010(1)S T222A225J010(1)S T222A225K010(1)S | 0.6 0.6 0.6 0.6 | 6 6 6 6 | 1007 0007 1008 0008 | 1067 0067 1068 0068 | 1127 0127 1128 0128 | 1187 0187 1188 0188 | 2005 2006 2007 2008 | 3005 3006 3007 3008 | 4005 4006 4007 4008 |
| 10.0 10.0 12.0 12.0 15.0 15.0 | B B B B B B | 5 10 5 10 5 10 | T222B106J010(1)S T222B106K010(1)S T222B126J010(1)S T222B126K010(1)S T222B156J010(1)S T222B156K010(1)S | 2.0 2.0 2.0 2.0 2.0 2.0 | 6 6 6 6 6 6 | 1009 0009 1010 0010 1011 0011 | 1069 0069 1070 0070 1071 0071 | 1129 0129 1130 0130 1131 0131 | 1189 0189 1190 0190 1191 0191 | 2009 2010 2011 2012 2013 2014 | 3009 3010 3011 3012 3013 3014 | 4009 4010 4011 4012 4013 4014 |
| 15 VOLT RATING AT 85°C — 10 VOLT RATING AT 125°C | | | | | | | | | | | | |
| 1.0 1.0 1.2 1.2 1.5 1.5 | A A A A A A | 5 10 5 10 5 10 | T222A105J015(1)S T222A105K015(1)S T222A125J015(1)S T222A125K015(1)S T222A155J015(1)S T222A155K015(1)S | 0.6 0.6 0.6 0.6 0.6 0.6 | 6 6 6 6 6 6 | 1012 0012 1013 0013 1014 0014 | 1072 0072 1073 0073 1074 0074 | 1132 0132 1133 0133 1134 0134 | 1192 0192 1193 0193 1194 0194 | 2015 2016 2017 2018 2019 2020 | 3015 3016 3017 3018 3019 3020 | 4015 4016 4017 4018 4019 4020 |
| 8.2 8.2 | B B | 5 10 | T222B825J015(1)S T222B825K015(1)S | 1.8 1.8 | 6 6 | 1015 0015 | 1075 0075 | 1135 0135 | 1195 0195 | 2021 2022 | 3021 3022 | 4021 4022 |
| 20 VOLT RATING AT 85°C — 13 VOLT RATING AT 125°C | | | | | | | | | | | | |
| 0.56 0.56 0.68 0.68 0.82 0.82 1.0 1.0 | A A A A A A A A | 5 10 5 10 5 10 5 10 | T222A564J020(1)S T222A564K020(1)S T222A684J020(1)S T222A684K020(1)S T222A824J020(1)S T222A824K020(1)S T222A105J020(1)S T222A105K020(1)S | 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 | 3 3 3 3 3 3 3 3 | 1016 0016 1017 0017 1018 0018 1019 0019 | 1076 0076 1077 0077 1078 0078 1079 0079 | 1136 0136 1137 0137 1138 0138 1139 0139 | 1196 0196 1197 0197 1198 0198 1199 0199 | 2023 2024 2025 2026 2027 2028 2029 2030 | 3023 3024 3025 3026 3027 3028 3029 3030 | 4023 4024 4025 4026 4027 4028 4029 4030 |
| 3.3 3.3 3.9 3.9 4.7 4.7 5.6 5.6 6.8 6.8 | B B B B B B B B B B | 5 10 5 10 5 10 5 10 5 10 | T222B335J020(1)S T222B335K020(1)S T222B395J020(1)S T222B395K020(1)S T222B475J020(1)S T222B475K020(1)S T222B565J020(1)S T222B565K020(1)S T222B685J020(1)S T222B685K020(1)S | 1.0 1.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 | 3 3 3 3 3 3 3 3 3 3 | 1020 0020 1021 0021 1022 0022 1023 0023 1024 0024 | 1080 0080 1081 0081 1082 0082 1083 0083 1084 0084 | 1140 0140 1141 0141 1142 0142 1143 0143 1144 0144 | 1200 0200 1201 0201 1202 0202 1203 0203 1204 0204 | 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 | 3031 3032 3033 3034 3035 3036 3037 3038 3039 3040 | 4031 4032 4033 4034 4035 4036 4037 4038 4039 4040 |
| 35 VOLT RATING AT 85°C — 23 VOLT RATING AT 125°C | | | | | | | | | | | | |
| 0.33 0.33 0.39 0.39 0.47 0.47 | A A A A A A | 5 10 5 10 5 10 | T222A334J035(1)S T222A334K035(1)S T222A394J035(1)S T222A394K035(1)S T222A474J035(1)S T222A474K035(1)S | 0.6 0.6 0.6 0.6 0.6 0.6 | 3 3 3 3 3 3 | 1025 0025 1026 0026 1027 0027 | 1085 0085 1086 0086 1087 0087 | 1145 0145 1146 0146 1147 0147 | 1205 0205 1206 0206 1207 0207 | 2041 2042 2043 2044 2045 2046 | 3041 3042 3043 3044 3045 3046 | 4041 4042 4043 4044 4045 4046 |
| 2.2 2.2 2.7 2.7 | B B B B | 5 10 5 10 | T222B225J035(1)S T222B225K035(1)S T222B275J035(1)S T222B275K035(1)S | 1.4 1.4 1.4 1.4 | 3 3 3 3 | 1028 0028 1029 0029 | 1088 0088 1089 0089 | 1148 0148 1149 0149 | 1208 0208 1209 0209 | 2047 2048 2049 2050 | 3047 3048 3049 3050 | 4047 4048 4049 4050 |

T222 Series Tantalum Hermetically Sealed

(1) To complete Part Number, insert Failure Rate Symbol in the 13th Character as shown on Page 24.
Bold Face lines indicate popular part types and values

RATINGS & PART NUMBER REFERENCE

| CAPACITANCE μF | CASE SIZE | CAPACITANCE TOLERANCE ±% | KEMET T222 SERIES | | | MIL-PRF-39003 (CSR09) CAPACITORS | | | | | | |
|---|--------------|--------------------------------|-------------------------|------------------------------------|---|---|-------------|-------------|----------------------------|-------------|-------------|--------------|
| | | | KEMET PART NUMBER | D.C. LEAKAGE μA@25°C MAX. | MAX. DISS- PATION FACTOR %@25°C, 120Hz | DASH NUMBER REFERENCE FAILURE RATE LEVEL (%/1000 HRS.) | | | | | | |
| | | | | | | MIL-PRF-39003/2D EXPONENTIAL | | | MIL-PRF-39003/2D GRADED | | | |
| | | | | | | M (1.0) | P (0.1) | R (0.01) | S (0.001) | B (0.1) | C (0.01) | D (0.001) |
| 50 VOLT RATING AT 85°C — 33 VOLT RATING AT 125°C | | | | | | | | | | | | |
| 0.22 | A | 5 | T222A224J050(1)S | 0.6 | 3 | 1030 | 1090 | 1150 | 1210 | 2051 | 3051 | 4051 |
| 0.22 | A | 10 | T222A224K050(1)S | 0.6 | 3 | 0030 | 0090 | 0150 | 0210 | 2052 | 3052 | 4052 |
| 0.27 | A | 5 | T222A274J050(1)S | 0.6 | 3 | 1031 | 1091 | 1151 | 1211 | 2053 | 3053 | 4053 |
| 0.27 | A | 10 | T222A274K050(1)S | 0.6 | 3 | 0031 | 0091 | 0151 | 0211 | 2054 | 3054 | 4054 |
| 1.5 | B | 5 | T222B155J050(1)S | 1.4 | 3 | 1032 | 1092 | 1152 | 1212 | 2055 | 3055 | 4055 |
| 1.5 | B | 10 | T222B155K050(1)S | 1.4 | 3 | 0032 | 0092 | 0152 | 0212 | 2056 | 3056 | 4056 |
| 1.8 | B | 5 | T222B185J050(1)S | 1.4 | 3 | 1033 | 1093 | 1153 | 1213 | 2057 | 3057 | 4057 |
| 1.8 | B | 10 | T222B185K050(1)S | 1.4 | 3 | 0033 | 0093 | 0153 | 0213 | 2058 | 3058 | 4058 |
| 75 VOLT RATING AT 85°C — 50 VOLT RATING AT 125°C | | | | | | | | | | | | |
| 0.047 | A | 5 | T222A473J075(1)S | 0.6 | 3 | 1034 | 1094 | 1154 | 1214 | 2059 | 3059 | 4059 |
| 0.047 | A | 10 | T222A473K075(1)S | 0.6 | 3 | 0034 | 0094 | 0154 | 0214 | 2060 | 3060 | 4060 |
| 0.056 | A | 5 | T222A563J075(1)S | 0.6 | 3 | 1035 | 1095 | 1155 | 1215 | 2061 | 3061 | 4061 |
| 0.056 | A | 10 | T222A563K075(1)S | 0.6 | 3 | 0035 | 0095 | 0155 | 0215 | 2062 | 3062 | 4062 |
| 0.068 | A | 5 | T222A683J075(1)S | 0.6 | 3 | 1036 | 1096 | 1156 | 1216 | 2063 | 3063 | 4063 |
| 0.068 | A | 10 | T222A683K075(1)S | 0.6 | 3 | 0036 | 0096 | 0156 | 0216 | 2064 | 3064 | 4064 |
| 0.082 | A | 5 | T222A823J075(1)S | 0.6 | 3 | 1037 | 1097 | 1157 | 1217 | 2065 | 3065 | 4065 |
| 0.082 | A | 10 | T222A823K075(1)S | 0.6 | 3 | 0037 | 0097 | 0157 | 0217 | 2066 | 3066 | 4066 |
| 0.10 | A | 5 | T222A104J075(1)S | 0.6 | 3 | 1038 | 1098 | 1158 | 1218 | 2067 | 3067 | 4067 |
| 0.10 | A | 10 | T222A104K075(1)S | 0.6 | 3 | 0038 | 0098 | 0158 | 0218 | 2068 | 3068 | 4068 |
| 0.12 | A | 5 | T222A124J075(1)S | 0.6 | 3 | 1039 | 1099 | 1159 | 1219 | 2069 | 3069 | 4069 |
| 0.12 | A | 10 | T222A124K075(1)S | 0.6 | 3 | 0039 | 0099 | 0159 | 0219 | 2070 | 3070 | 4070 |
| 0.15 | A | 5 | T222A154J075(1)S | 0.6 | 3 | 1040 | 1100 | 1160 | 1220 | 2071 | 3071 | 4071 |
| 0.15 | A | 10 | T222A154K075(1)S | 0.6 | 3 | 0040 | 0100 | 0160 | 0220 | 2072 | 3072 | 4072 |
| 0.18 | A | 5 | T222A184J075(1)S | 0.6 | 3 | 1041 | 1101 | 1161 | 1221 | 2073 | 3073 | 4073 |
| 0.18 | A | 10 | T222A184K075(1)S | 0.6 | 3 | 0041 | 0101 | 0161 | 0221 | 2074 | 3074 | 4074 |
| 0.22 | B | 5 | T222B224J075(1)S | 0.6 | 3 | 1042 | 1102 | 1162 | 1222 | 2075 | 3075 | 4075 |
| 0.22 | B | 10 | T222B224K075(1)S | 0.6 | 3 | 0042 | 0102 | 0162 | 0222 | 2076 | 3076 | 4076 |
| 0.27 | B | 5 | T222B274J075(1)S | 0.6 | 3 | 1043 | 1103 | 1163 | 1223 | 2077 | 3077 | 4077 |
| 0.27 | B | 10 | T222B274K075(1)S | 0.6 | 3 | 0043 | 0103 | 0163 | 0223 | 2078 | 3078 | 4078 |
| 0.33 | B | 5 | T222B334J075(1)S | 0.6 | 3 | 1044 | 1104 | 1164 | 1224 | 2079 | 3079 | 4079 |
| 0.33 | B | 10 | T222B334K075(1)S | 0.6 | 3 | 0044 | 0104 | 0164 | 0224 | 2080 | 3080 | 4080 |
| 0.39 | B | 5 | T222B394J075(1)S | 0.6 | 3 | 1045 | 1105 | 1165 | 1225 | 2081 | 3081 | 4081 |
| 0.39 | B | 10 | T222B394K075(1)S | 0.6 | 3 | 0045 | 0105 | 0165 | 0225 | 2082 | 3082 | 4082 |
| 0.47 | B | 5 | T222B474J075(1)S | 0.6 | 3 | 1046 | 1106 | 1166 | 1226 | 2083 | 3083 | 4083 |
| 0.47 | B | 10 | T222B474K075(1)S | 0.6 | 3 | 0046 | 0106 | 0166 | 0226 | 2084 | 3084 | 4084 |
| 0.56 | B | 5 | T222B564J075(1)S | 0.6 | 3 | 1047 | 1107 | 1167 | 1227 | 2085 | 3085 | 4085 |
| 0.56 | B | 10 | T222B564K075(1)S | 0.6 | 3 | 0047 | 0107 | 0167 | 0227 | 2086 | 3086 | 4086 |
| 0.68 | B | 5 | T222B684J075(1)S | 0.6 | 3 | 1048 | 1108 | 1168 | 1228 | 2087 | 3087 | 4087 |
| 0.68 | B | 10 | T222B684K075(1)S | 0.6 | 3 | 0048 | 0108 | 0168 | 0228 | 2088 | 3088 | 4088 |
| 0.82 | B | 5 | T222B824J075(1)S | 0.7 | 3 | 1049 | 1109 | 1169 | 1229 | 2089 | 3089 | 4089 |
| 0.82 | B | 10 | T222B824K075(1)S | 0.7 | 3 | 0049 | 0109 | 0169 | 0229 | 2090 | 3090 | 4090 |
| 1.0 | B | 5 | T222B105J075(1)S | 0.9 | 3 | 1050 | 1110 | 1170 | 1230 | 2091 | 3091 | 4091 |
| 1.0 | B | 10 | T222B105K075(1)S | 0.9 | 3 | 0050 | 0110 | 0170 | 0230 | 2092 | 3092 | 4092 |
| 1.2 | B | 5 | T222B125J075(1)S | 0.9 | 3 | 1051 | 1111 | 1171 | 1231 | 2093 | 3093 | 4093 |
| 1.2 | B | 10 | T222B125K075(1)S | 0.9 | 3 | 0051 | 0111 | 0171 | 0231 | 2094 | 3094 | 4094 |

(1) To complete Part Number, insert Failure Rate Symbol in the 13th Character as shown on Page 24.
Bold Face lines indicate popular part types and values

KEMET standard MIL case hermetically sealed T140 Series (Extended Capacitance Range) are compact, ruggedly built, designed for miniaturized circuitry, and are especially suited for coupling, bypass, filtering and R-C timing circuits. They exhibit excellent stability, low DC leakage current, dissipation factor, and ESR/impedance over a wide temperature and frequency range.

Available in standard EIA capacitance values from .82-1200 μF in $\pm 20\%$, $\pm 10\%$, and $\pm 5\%$ tolerances and working voltages from 6-60 VDC.

Included in the following Series table is a complete listing of CSR23 qualified MIL-C-39003/3 capacitors.

DIMENSIONS — INCHES & (MILLIMETERS)

| CASE SIZE | UNINSULATED | | INSULATED | | B ± 0.002 (.05) | C MAX. |
|-----------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|------------------|
| | D ± 0.005 (.13) | L ± 0.031 (.79) | D ± 0.010 (.25) | L ± 0.031 (.79) | | |
| A | 0.125 (3.18) | 0.250 (6.35) | 0.135 (3.43) | 0.286 (7.26) | 0.020 (.51) | 0.422 (10.72) |
| B | 0.175 (4.45) | 0.438 (11.13) | 0.185 (4.70) | 0.474 (12.04) | 0.020 (.51) | 0.610 (15.49) |
| C | 0.279 (7.09) | 0.650 (16.51) | 0.289 (7.34) | 0.686 (17.42) | 0.025 (.64) | 0.822 (20.88) |
| D | 0.341 (8.66) | 0.750 (19.05) | 0.351 (8.92) | 0.786 (19.96) | 0.025 (.64) | 0.922 (23.42) |

**MARKING INFORMATION*
A, B, C & D CASES**

| | |
|-------------------|--|
| +K 10% | — Polarity, Manufacturer's Identification and Capacitance Tol. |
| 5R6 μF | — Normal Capacitance — (μF) ("R" indicates decimal) |
| 10V | — Voltage |
| 0312 | — Date Code (e.g.: 0312) |

* For Military Marking, see page 4.

CAPACITOR OUTLINE DRAWINGS



Effective September 30, 2005, the KEMET T140 Series is RoHS compliant by ordering the "T" (100% tin) end termination in the 14th position of the part number.

RATINGS & PART NUMBER REFERENCE

| CAPACITANCE μF | CASE SIZE | CAPACITANCE TOLERANCE $\pm\%$ | KEMET T140 | | | MIL-PRF-39003 (CSR23) CAPACITORS | | | | | | | KEMET EQUIVALENT MILITARY PART NUMBER | |
|---|-----------|----------------------------------|-----------------------|--|---|---|----------------------------|-------------|-------------|---------------------------------------|-------------|-------------|---------------------------------------|---|
| | | | KEMET PART NUMBER | D.C. LEAKAGE $\mu\text{A}@25^\circ\text{C}$ MAX. | MAX. DISSIPATION FACTOR $\%@25^\circ\text{C}$, 120Hz | DASH NUMBER REFERENCE FAILURE RATE LEVEL (%/1000 HRS.) | | | | KEMET EQUIVALENT MILITARY PART NUMBER | | | | |
| | | | | | | MIL-PRF-39003/3F EXPONENTIAL | MIL-PRF-39003/3F GRADED | M | P | R | S | B | | C |
| 6 VOLT RATING AT 85°C — 4 VOLT RATING AT 125°C | | | | | | | | | | | | | | |
| 8.2 | A | 10, 20 | T140A825(1)006AS | 0.9 | 6 | | | | | | | | | |
| 10.0 | A | 10 | T140A106K006AS | 0.9 | 6 | 0101 | 0201 | 0301 | 0401 | 2001 | 3001 | 4001 | T242A106K006(2)S | |
| 10.0 | A | 20 | T140A106M006AS | 0.9 | 6 | 0102 | 0202 | 0302 | 0402 | 2002 | 3002 | 4002 | T242A106M006(2)S | |
| 12.0 | A | 10 | T140A126K006AS | 1.0 | 6 | 0103 | 0203 | 0303 | 0403 | 2003 | 3003 | 4003 | T242A126K006(2)S | |
| 12.0 | A | 20 | T140A126M006AS | 1.0 | 6 | | | | | | | | | |
| 68.0 | B | 10, 20 | T140B686(1)006AS | 3.0 | 6 | | | | | | | | | |
| 82.0 | B | 10, 20 | T140B826(1)006AS | 3.0 | 6 | | | | | | | | | |
| 100.0 | B | 10 | T140B107K006AS | 6.0 | 6 | 0104 | 0204 | 0304 | 0404 | 2004 | 3004 | 4004 | T242B107K006(2)S | |
| 100.0 | B | 20 | T140B107M006AS | 6.0 | 6 | 0105 | 0205 | 0305 | 0405 | 2005 | 3005 | 4005 | T242B107M006(2)S | |
| 220.0 | C | 10, 20 | T140C227(1)006AS | 10.0 | 8 | | | | | | | | | |
| 270.0 | C | 10, 20 | T140C277(1)006AS | 10.0 | 8 | | | | | | | | | |
| 330.0 | C | 10 | T140C337K006AS | 10.0 | 8 | 0106 | 0206 | 0306 | 0406 | 2006 | 3006 | 4006 | T242C337K006(2)S | |
| 330.0 | C | 20 | T140C337M006AS | 10.0 | 8 | 0107 | 0207 | 0307 | 0407 | 2007 | 3007 | 4007 | T242C337M006(2)S | |
| 390.0 | C | 10 | T140C397K006AS | 10.0 | 10 | 0108 | 0208 | 0308 | 0408 | 2008 | 3008 | 4008 | T242C397K006(2)S | |
| 390.0 | C | 20 | T140C397M006AS | 10.0 | 10 | | | | | | | | | |
| 470.0 | C | 10 | T140C477K006AS | 10.0 | 10 | 0109 | 0209 | 0309 | 0409 | 2009 | 3009 | 4009 | T242C477K006(2)S | |
| 470.0 | C | 20 | T140C477M006AS | 10.0 | 10 | 0110 | 0210 | 0310 | 0410 | 2010 | 3010 | 4010 | T242C477M006(2)S | |
| 560.0 | D | 10, 20 | T140D567(1)006AS | 20.0 | 10 | | | | | | | | | |
| 680.0 | D | 10 | T140D687K006AS | 20.0 | 10 | 0111 | 0211 | 0311 | 0411 | 2011 | 3011 | 4011 | T242D687K006(2)S | |
| 680.0 | D | 20 | T140D687M006AS | 20.0 | 10 | 0112 | 0212 | 0312 | 0412 | 2012 | 3012 | 4012 | T242D687M006(2)S | |
| 820.0 | D | 10 | T140D827K006AS | 20.0 | 10 | 0113 | 0213 | 0313 | 0413 | 2013 | 3013 | 4013 | T242D827K006(2)S | |
| 820.0 | D | 20 | T140D827M006AS | 20.0 | 10 | | | | | | | | | |
| 1000.0 | D | 10 | T140D108K006AS | 20.0 | 10 | 0114 | 0214 | 0314 | 0414 | 2014 | 3014 | 4014 | T242D108K006(2)S | |
| 1000.0 | D | 20 | T140D108M006AS | 20.0 | 10 | 0115 | 0215 | 0315 | 0415 | 2015 | 3015 | 4015 | T242D108M006(2)S | |
| 1200.0 | D | 20 | T140D128M006AS | 20.0 | 10 | | | | | | | | | |

(1) To complete T140 Series Part Number, insert Capacitance Tolerance Symbol in the 9th Character as shown on Page 6.
(2) To complete the T242 Series Part Number, insert Failure Rate Symbol in the 13th Character.
Bold Face lines indicate popular part types and values.
For ordering information, see page 4 (Military) and Page 6.

T140/T242 Series Tantalum
Hermetically Sealed

RATINGS & PART NUMBER REFERENCE

| CAPACITANCE µF | CASE SIZE | CAPACITANCE TOLERANCE ±% | KEMET T140 | | | MIL-PRF-39003 (CSR23) CAPACITORS | | | | | | | | KEMET EQUIVALENT MILITARY PART NUMBER |
|---|--------------|--------------------------------|-----------------------|------------------------------------|---|---|-------------|-------------|--------------|----------------------------|-------------|--------------|-------------------------|--|
| | | | KEMET PART NUMBER | D.C. LEAKAGE µA@25°C MAX. | MAX. DISSIPATION FACTOR %@25°C, 120Hz | DASH NUMBER REFERENCE FAILURE RATE LEVEL (%/1000 HRS.) | | | | | | | | |
| | | | | | | MIL-PRF-39003/3F EXPONENTIAL | | | | MIL-PRF-39003/3F GRADED | | | | |
| | | | | | | M (1.0) | P (0.1) | R (0.01) | S (0.001) | B (0.1) | C (0.01) | D (0.001) | | |
| 10 VOLT RATING AT 85°C — 7 VOLT RATING AT 125°C | | | | | | | | | | | | | | |
| 5.6 | A | 10, 20 | T140A565(1)010AS | 1.0 | 4 | | | | | | | | | |
| 6.8 | A | 10 | T140A685K010AS | 1.0 | 6 | 0116 | 0216 | 0316 | 0416 | 2016 | 3016 | 4016 | T242A685K010(2)S | |
| 6.8 | A | 20 | T140A685M010AS | 1.0 | 6 | 0117 | 0217 | 0317 | 0417 | 2017 | 3017 | 4017 | T242A685M010(2)S | |
| 8.2 | A | 10 | T140A825K010AS | 1.2 | 6 | 0118 | 0218 | 0318 | 0418 | 2018 | 3018 | 4018 | T242A825K010(2)S | |
| 8.2 | A | 20 | T140A825M010AS | 1.2 | 6 | | | | | | | | | |
| 47.0 | B | 10 | T140B476K010AS | 4.0 | 6 | 0119 | 0219 | 0319 | 0419 | 2019 | 3019 | 4019 | T242B476K010(2)S | |
| 47.0 | B | 20 | T140B476M010AS | 4.0 | 6 | 0120 | 0220 | 0320 | 0420 | 2020 | 3020 | 4020 | T242B476M010(2)S | |
| 56.0 | B | 10 | T140B566K010AS | 5.0 | 6 | 0121 | 0221 | 0321 | 0421 | 2021 | 3021 | 4021 | T242B566K010(2)S | |
| 56.0 | B | 20 | T140B566M010AS | 5.0 | 6 | | | | | | | | | |
| 68.0 | B | 10 | T140B686K010AS | 6.0 | 6 | 0122 | 0222 | 0322 | 0422 | 2022 | 3022 | 4022 | T242B686K010(2)S | |
| 68.0 | B | 20 | T140B686M010AS | 6.0 | 6 | 0123 | 0223 | 0323 | 0423 | 2023 | 3023 | 4023 | T242B686M010(2)S | |
| 82.0 | B | 10 | T140B826K010AS | 7.0 | 6 | 0124 | 0224 | 0324 | 0424 | 2024 | 3024 | 4024 | T242B826K010(2)S | |
| 82.0 | B | 20 | T140B826M010AS | 7.0 | 6 | | | | | | | | | |
| 150.0 | C | 10, 20 | T140C157(1)010AS | 8.0 | 8 | | | | | | | | | |
| 180.0 | C | 10, 20 | T140C187(1)010AS | 8.0 | 8 | | | | | | | | | |
| 220.0 | C | 10 | T140C227K010AS | 12.0 | 8 | 0125 | 0225 | 0325 | 0425 | 2025 | 3025 | 4025 | T242C227K010(2)S | |
| 220.0 | C | 20 | T140C227M010AS | 12.0 | 8 | 0126 | 0226 | 0326 | 0426 | 2026 | 3026 | 4026 | T242C227M010(2)S | |
| 270.0 | C | 10 | T140C277K010AS | 13.0 | 8 | 0127 | 0227 | 0327 | 0427 | 2027 | 3027 | 4027 | T242C277K010(2)S | |
| 270.0 | C | 20 | T140C277M010AS | 13.0 | 8 | | | | | | | | | |
| 330.0 | D | 10, 20 | T140D337(1)010AS | 16.0 | 8 | | | | | | | | | |
| 390.0 | D | 10 | T140D397K010AS | 16.0 | 10 | 0128 | 0228 | 0328 | 0428 | 2028 | 3028 | 4028 | T242D397K010(2)S | |
| 390.0 | D | 20 | T140D397M010AS | 16.0 | 10 | | | | | | | | | |
| 470.0 | D | 10 | T140D477K010AS | 16.0 | 10 | 0129 | 0229 | 0329 | 0429 | 2029 | 3029 | 4029 | T242D477K010(2)S | |
| 470.0 | D | 20 | T140D477M010AS | 16.0 | 10 | 0130 | 0230 | 0330 | 0430 | 2030 | 3030 | 4030 | T242D477M010(2)S | |
| 560.0 | D | 10 | T140D567K010AS | 20.0 | 10 | 0131 | 0231 | 0331 | 0431 | 2031 | 3031 | 4031 | T242D567K010(2)S | |
| 560.0 | D | 20 | T140D567M010AS | 20.0 | 10 | | | | | | | | | |
| 15 VOLT RATING AT 85°C — 10 VOLT RATING AT 125°C | | | | | | | | | | | | | | |
| 3.9 | A | 10, 20 | T140A395(1)015AS | 1.0 | 4 | | | | | | | | | |
| 4.7 | A | 10 | T140A475K015AS | 1.0 | 4 | 0132 | 0232 | 0332 | 0432 | 2032 | 3032 | 4032 | T242A475K015(2)S | |
| 4.7 | A | 20 | T140A475M015AS | 1.0 | 4 | 0133 | 0233 | 0333 | 0433 | 2033 | 3033 | 4033 | T242A475M015(2)S | |
| 5.6 | A | 10 | T140A565K015AS | 1.3 | 4 | 0134 | 0234 | 0334 | 0434 | 2034 | 3034 | 4034 | T242A565K015(2)S | |
| 5.6 | A | 20 | T140A565M015AS | 1.3 | 4 | | | | | | | | | |
| 27.0 | B | 10, 20 | T140B276(1)015AS | 3.0 | 6 | | | | | | | | | |
| 33.0 | B | 10 | T140B336K015AS | 5.0 | 6 | 0135 | 0235 | 0335 | 0435 | 2035 | 3035 | 4035 | T242B336K015(2)S | |
| 33.0 | B | 20 | T140B336M015AS | 5.0 | 6 | 0136 | 0236 | 0336 | 0436 | 2036 | 3036 | 4036 | T242B336M015(2)S | |
| 39.0 | B | 10 | T140B396K015AS | 5.3 | 6 | 0137 | 0237 | 0337 | 0437 | 2037 | 3037 | 4037 | T242B396K015(2)S | |
| 39.0 | B | 20 | T140B396M015AS | 5.3 | 6 | | | | | | | | | |
| 82.0 | C | 10, 20 | T140C826(1)015AS | 8.0 | 6 | | | | | | | | | |
| 100.0 | C | 10, 20 | T140C107(1)015AS | 10.0 | 6 | | | | | | | | | |
| 120.0 | C | 10, 20 | T140C127(1)015AS | 10.0 | 6 | | | | | | | | | |
| 150.0 | C | 10 | T140C157K015AS | 15.0 | 8 | 0138 | 0238 | 0338 | 0438 | 2038 | 3038 | 4038 | T242C157K015(2)S | |
| 150.0 | C | 20 | T140C157M015AS | 15.0 | 8 | 0139 | 0239 | 0339 | 0439 | 2039 | 3039 | 4039 | T242C157M015(2)S | |
| 180.0 | C | 10 | T140C187K015AS | 15.0 | 8 | 0140 | 0240 | 0340 | 0440 | 2040 | 3040 | 4040 | T242C187K015(2)S | |
| 180.0 | C | 20 | T140C187M015AS | 15.0 | 8 | | | | | | | | | |
| 220.0 | D | 10 | T140D227K015AS | 20.0 | 8 | 0141 | 0241 | 0341 | 0441 | 2041 | 3041 | 4041 | T242D227K015(2)S | |
| 220.0 | D | 20 | T140D227M015AS | 20.0 | 8 | 0142 | 0242 | 0342 | 0442 | 2042 | 3042 | 4042 | T242D227M015(2)S | |
| 270.0 | D | 10 | T140D277K015AS | 20.0 | 8 | 0143 | 0243 | 0343 | 0443 | 2043 | 3043 | 4043 | T242D277K015(2)S | |
| 270.0 | D | 20 | T140D277M015AS | 20.0 | 8 | | | | | | | | | |
| 330.0 | D | 10 | T140D337K015AS | 20.0 | 8 | 0144 | 0244 | 0344 | 0444 | 2044 | 3044 | 4044 | T242D337K015(2)S | |
| 330.0 | D | 20 | T140D337M015AS | 20.0 | 8 | 0145 | 0245 | 0345 | 0445 | 2045 | 3045 | 4045 | T242D337M015(2)S | |

(1) To complete T140 Series Part Number, insert Capacitance Tolerance Symbol in the 9th Character as shown on Page 6.
(2) To complete the T242 Series Part Number, insert Failure Rate Symbol in the 13th Character.

RATINGS & PART NUMBER REFERENCE

| CAPACITANCE μF | CASE SIZE | CAPACITANCE TOLERANCE ±% | KEMET T140 | | | MIL-PRF-39003 (CSR23) CAPACITORS | | | | | | | | KEMET EQUIVALENT MILITARY PART NUMBER |
|---|--------------|--------------------------------|-------------------------|------------------------------------|---|---|-------------|-------------|--------------|----------------------------|-------------|--------------|-------------------------|--|
| | | | KEMET PART NUMBER | D.C. LEAKAGE μA@25°C MAX. | MAX. DISSIPATION FACTOR %@25°C, 120Hz | DASH NUMBER REFERENCE FAILURE RATE LEVEL (%/1000 HRS.) | | | | | | | | |
| | | | | | | MIL-PRF-39003/3F EXPONENTIAL | | | | MIL-PRF-39003/3F GRADED | | | | |
| | | | | | | M (1.0) | P (0.1) | R (0.01) | S (0.001) | B (0.1) | C (0.01) | D (0.001) | | |
| 20 VOLT RATING AT 85°C — 13 VOLT RATING AT 125°C | | | | | | | | | | | | | | |
| 2.7 | A | 10 | T140A275K020AS | 0.8 | 4 | 0146 | 0246 | 0346 | 0446 | 2046 | 3046 | 4046 | T242A275K020(2)S | |
| 2.7 | A | 20 | T140A275M020AS | 0.8 | 4 | | | | | | | | | |
| 3.3 | A | 10 | T140A335K020AS | 1.0 | 4 | 0147 | 0247 | 0347 | 0447 | 2047 | 3047 | 4047 | T242A335K020(2)S | |
| 3.3 | A | 20 | T140A335M020AS | 1.0 | 4 | 0148 | 0248 | 0348 | 0448 | 2048 | 3048 | 4048 | T242A335M020(2)S | |
| 3.9 | A | 10 | T140A395K020AS | 1.2 | 4 | 0149 | 0249 | 0349 | 0449 | 2049 | 3049 | 4049 | T242A395K020(2)S | |
| 3.9 | A | 20 | T140A395M020AS | 1.2 | 4 | | | | | | | | | |
| 18.0 | B | 10 | T140B186K020AS | 3.0 | 6 | 0150 | 0250 | 0350 | 0450 | 2050 | 3050 | 4050 | T242B186K020(2)S | |
| 18.0 | B | 20 | T140B186M020AS | 3.0 | 6 | | | | | | | | | |
| 22.0 | B | 10 | T140B226K020AS | 3.0 | 6 | 0151 | 0251 | 0351 | 0451 | 2051 | 3051 | 4051 | T242B226K020(2)S | |
| 22.0 | B | 20 | T140B226M020AS | 3.0 | 6 | 0152 | 0252 | 0352 | 0452 | 2052 | 3052 | 4052 | T242B226M020(2)S | |
| 27.0 | B | 10 | T140B276K020AS | 4.0 | 6 | 0153 | 0253 | 0353 | 0453 | 2053 | 3053 | 4053 | T242B276K020(2)S | |
| 27.0 | B | 20 | T140B276M020AS | 4.0 | 6 | | | | | | | | | |
| 56.0 | C | 10 | T140C566K020AS | 7.0 | 6 | 0154 | 0254 | 0354 | 0454 | 2054 | 3054 | 4054 | T242C566K020(2)S | |
| 56.0 | C | 20 | T140C566M020AS | 7.0 | 6 | | | | | | | | | |
| 68.0 | C | 10 | T140C686K020AS | 8.0 | 6 | 0155 | 0255 | 0355 | 0455 | 2055 | 3055 | 4055 | T242C686K020(2)S | |
| 68.0 | C | 20 | T140C686M020AS | 8.0 | 6 | 0156 | 0256 | 0356 | 0456 | 2056 | 3056 | 4056 | T242C686M020(2)S | |
| 82.0 | C | 10 | T140C826K020AS | 10.0 | 6 | 0157 | 0257 | 0357 | 0457 | 2057 | 3057 | 4057 | T242C826K020(2)S | |
| 82.0 | C | 20 | T140C826M020AS | 10.0 | 6 | | | | | | | | | |
| 100.0 | C | 10 | T140C107K020AS | 12.0 | 6 | 0158 | 0258 | 0358 | 0458 | 2058 | 3058 | 4058 | T242C107K020(2)S | |
| 100.0 | C | 20 | T140C107M020AS | 12.0 | 6 | 0159 | 0259 | 0359 | 0459 | 2059 | 3059 | 4059 | T242C107M020(2)S | |
| 120.0 | C | 10 | T140C127K020AS | 12.0 | 6 | 0160 | 0260 | 0360 | 0460 | 2060 | 3060 | 4060 | T242C127K020(2)S | |
| 120.0 | C | 20 | T140C127M020AS | 12.0 | 6 | | | | | | | | | |
| 150.0 | D | 10 | T140D157K020AS | 15.0 | 8 | 0161 | 0261 | 0361 | 0461 | 2061 | 3061 | 4061 | T242D157K020(2)S | |
| 150.0 | D | 20 | T140D157M020AS | 15.0 | 8 | 0162 | 0262 | 0362 | 0462 | 2062 | 3062 | 4062 | T242D157M020(2)S | |
| 180.0 | D | 10 | T140D187K020AS | 15.0 | 8 | 0163 | 0263 | 0363 | 0463 | 2063 | 3063 | 4063 | T242D187K020(2)S | |
| 180.0 | D | 20 | T140D187M020AS | 15.0 | 8 | | | | | | | | | |
| 30 VOLT RATING AT 85°C — 20 VOLT RATING AT 125°C | | | | | | | | | | | | | | |
| 1.2 | A | 10, 20 | T140A125(1)030AS | 1.0 | 4 | | | | | | | | | |
| 1.5 | A | 10, 20 | T140A155(1)030AS | 1.0 | 4 | | | | | | | | | |
| 1.8 | A | 10, 20 | T140A185(1)030AS | 1.0 | 4 | | | | | | | | | |
| 2.2 | A | 10, 20 | T140A225(1)030AS | 1.0 | 4 | | | | | | | | | |
| 2.7 | A | 10, 20 | T140A275(1)030AS | 1.0 | 4 | | | | | | | | | |
| 12.0 | B | 10, 20 | T140B126(1)030AS | 3.0 | 4 | | | | | | | | | |
| 15.0 | B | 10, 20 | T140B156(1)030AS | 3.0 | 4 | | | | | | | | | |
| 18.0 | B | 10, 20 | T140B186(1)030AS | 3.0 | 4 | | | | | | | | | |
| 33.0 | C | 10, 20 | T140C336(1)030AS | 6.0 | 6 | | | | | | | | | |
| 39.0 | C | 10, 20 | T140C396(1)030AS | 6.0 | 6 | | | | | | | | | |
| 47.0 | C | 10, 20 | T140C476(1)030AS | 7.0 | 6 | | | | | | | | | |
| 56.0 | C | 10, 20 | T140C566(1)030AS | 7.0 | 6 | | | | | | | | | |
| 68.0 | C | 10, 20 | T140C686(1)030AS | 7.0 | 6 | | | | | | | | | |
| 82.0 | D | 10, 20 | T140D826(1)030AS | 10.0 | 6 | | | | | | | | | |
| 100.0 | D | 10, 20 | T140D107(1)030AS | 10.0 | 8 | | | | | | | | | |

(1) To complete T140 Series Part Number, insert Capacitance Tolerance Symbol in the 9th Character as shown on Page 6.

(2) To complete the T242 Series Part Number, insert Failure Rate Symbol in the 13th Character.

Bold Face lines indicate popular part types and values.

T140/T242 Series Tantalum
Hermetically Sealed

RATINGS & PART NUMBER REFERENCE

| CAPACITANCE μF | CASE SIZE | CAPACITANCE TOLERANCE ±% | KEMET T140 | | | MIL-PRF-39003 (CSR23) CAPACITORS | | | | | | | | KEMET EQUIVALENT MILITARY PART NUMBER | | | |
|---|--------------|--------------------------------|-------------------------|------------------------------------|---|---|-------------|-------------|--------------|----------------------------|-------------|--------------|--|--|--|-------------------------|--|
| | | | KEMET PART NUMBER | D.C. LEAKAGE μA@25°C MAX. | MAX. DISSIPATION FACTOR %@25°C, 120Hz | DASH NUMBER REFERENCE FAILURE RATE LEVEL (%/1000 HRS.) | | | | | | | | | | | |
| | | | | | | MIL-PRF-39003/3F EXPONENTIAL | | | | MIL-PRF-39003/3F GRADED | | | | | | | |
| | | | | | | M (1.0) | P (0.1) | R (0.01) | S (0.001) | B (0.1) | C (0.01) | D (0.001) | | | | | |
| 35 VOLT RATING AT 85°C — 23 VOLT RATING AT 125°C | | | | | | | | | | | | | | | | | |
| 1.2 | A | 10, 20 | T140A125(1)035AS | 0.6 | 4 | | | | | | | | | | | | |
| 1.5 | A | 10, 20 | T140A155(1)035AS | 0.8 | 4 | | | | | | | | | | | | |
| 1.8 | A | 10 | T140A185K035AS | 1.0 | 4 | 0164 | 0264 | 0364 | 0464 | 2064 | 3064 | 4064 | | | | T242A185K035(2)S | |
| 1.8 | A | 20 | T140A185M035AS | 1.0 | 4 | | | | | | | | | | | | |
| 8.2 | B | 10 | T140B825K035AS | 3.0 | 4 | 0165 | 0265 | 0365 | 0465 | 2065 | 3065 | 4065 | | | | T242B825K035(2)S | |
| 8.2 | B | 20 | T140B825M035AS | 3.0 | 4 | | | | | | | | | | | | |
| 10.0 | B | 10 | T140B106K035AS | 3.0 | 4 | 0166 | 0266 | 0366 | 0466 | 2066 | 3066 | 4066 | | | | T242B106K035(2)S | |
| 10.0 | B | 20 | T140B106M035AS | 3.0 | 4 | 0167 | 0267 | 0367 | 0467 | 2067 | 3067 | 4067 | | | | T242B106M035(2)S | |
| 27.0 | C | 10, 20 | T140C276(1)035AS | 7.0 | 6 | | | | | | | | | | | | |
| 33.0 | C | 10 | T140C336K035AS | 8.0 | 6 | 0168 | 0268 | 0368 | 0468 | 2068 | 3068 | 4068 | | | | T242C336K035(2)S | |
| 33.0 | C | 20 | T140C336M035AS | 8.0 | 6 | 0169 | 0269 | 0369 | 0469 | 2069 | 3069 | 4069 | | | | T242C336M035(2)S | |
| 39.0 | C | 10 | T140C396K035AS | 10.0 | 6 | 0170 | 0270 | 0370 | 0470 | 2070 | 3070 | 4070 | | | | T242C396K035(2)S | |
| 39.0 | C | 20 | T140C396M035AS | 10.0 | 6 | | | | | | | | | | | | |
| 47.0 | C | 10 | T140C476K035AS | 10.0 | 6 | 0171 | 0271 | 0371 | 0471 | 2071 | 3071 | 4071 | | | | T242C476K035(2)S | |
| 47.0 | C | 20 | T140C476M035AS | 10.0 | 6 | 0172 | 0272 | 0372 | 0472 | 2072 | 3072 | 4072 | | | | T242C476M035(2)S | |
| 56.0 | D | 10 | T140D566K035AS | 12.0 | 6 | 0173 | 0273 | 0373 | 0473 | 2073 | 3073 | 4073 | | | | T242D566K035(2)S | |
| 56.0 | D | 20 | T140D566M035AS | 12.0 | 6 | | | | | | | | | | | | |
| 68.0 | D | 10 | T140D686K035AS | 12.0 | 6 | 0174 | 0274 | 0374 | 0474 | 2074 | 3074 | 4074 | | | | T242D686K035(2)S | |
| 68.0 | D | 20 | T140D686M035AS | 12.0 | 6 | 0175 | 0275 | 0375 | 0475 | 2075 | 3075 | 4075 | | | | T242D686M035(2)S | |
| 82.0 | D | 10, 20 | T140D826(1)035AS | 20.0 | 8 | | | | | | | | | | | | |
| 100.0 | D | 10, 20 | T140D107(1)035AS | 20.0 | 8 | | | | | | | | | | | | |
| 50 VOLT RATING AT 85°C — 33 VOLT RATING AT 125°C | | | | | | | | | | | | | | | | | |
| 1.2 | A | 10 | T140A125K050AS | 0.6 | 4 | 0176 | 0276 | 0376 | 0476 | 2076 | 3076 | 4076 | | | | T242A125K050(2)S | |
| 1.2 | A | 20 | T140A125M050AS | 0.6 | 4 | | | | | | | | | | | | |
| 1.5 | A | 10 | T140A155K050AS | 0.8 | 4 | 0177 | 0277 | 0377 | 0477 | 2077 | 3077 | 4077 | | | | T242A155K050(2)S | |
| 1.5 | A | 20 | T140A155M050AS | 0.8 | 4 | 0178 | 0278 | 0378 | 0478 | 2078 | 3078 | 4078 | | | | T242A155M050(2)S | |
| 5.6 | B | 10 | T140B565K050AS | 2.5 | 4 | 0179 | 0279 | 0379 | 0479 | 2079 | 3079 | 4079 | | | | T242B565K050(2)S | |
| 5.6 | B | 20 | T140B565M050AS | 2.5 | 4 | | | | | | | | | | | | |
| 6.8 | B | 10 | T140B685K050AS | 2.5 | 4 | 0180 | 0280 | 0380 | 0480 | 2080 | 3080 | 4080 | | | | T242B685K050(2)S | |
| 6.8 | B | 20 | T140B685M050AS | 2.5 | 4 | 0181 | 0281 | 0381 | 0481 | 2081 | 3081 | 4081 | | | | T242B685M050(2)S | |
| 22.0 | C | 10 | T140C226K050AS | 7.0 | 6 | 0182 | 0282 | 0382 | 0482 | 2082 | 3082 | 4082 | | | | T242C226K050(2)S | |
| 22.0 | C | 20 | T140C226M050AS | 7.0 | 6 | 0183 | 0283 | 0383 | 0483 | 2083 | 3083 | 4083 | | | | T242C226M050(2)S | |
| 27.0 | C | 10 | T140C276K050AS | 8.0 | 6 | 0184 | 0284 | 0384 | 0484 | 2084 | 3084 | 4084 | | | | T242C276K050(2)S | |
| 27.0 | C | 20 | T140C276M050AS | 8.0 | 6 | | | | | | | | | | | | |
| 33.0 | D | 10 | T140D336K050AS | 10.0 | 6 | 0185 | 0285 | 0385 | 0485 | 2085 | * | * | | | | T242D336K050(2)S | |
| 33.0 | D | 20 | T140D336M050AS | 10.0 | 6 | 0186 | 0286 | 0386 | 0486 | 2086 | * | * | | | | T242D336M050(2)S | |
| 39.0 | D | 10 | T140D396K050AS | 10.0 | 6 | 0187 | 0287 | 0387 | 0487 | 2087 | * | * | | | | T242D396K050(2)S | |
| 39.0 | D | 20 | T140D396M050AS | 10.0 | 6 | | | | | | * | * | | | | | |
| 47.0 | D | 20 | T140D476M050AS | 10.0 | 6 | | | | | | | | | | | | |
| 60 VOLT RATING AT 85°C — 40 VOLT RATING AT 125°C | | | | | | | | | | | | | | | | | |
| 0.82 | A | 10, 20 | T140A824(1)060AS | 0.5 | 4 | | | | | | | | | | | | |
| 1.0 | A | 10, 20 | T140A105(1)060AS | 0.5 | 4 | | | | | | | | | | | | |
| 4.7 | B | 10, 20 | T140B475(1)060AS | 3.0 | 4 | | | | | | | | | | | | |
| 5.6 | B | 10, 20 | T140B565(1)060AS | 3.0 | 4 | | | | | | | | | | | | |
| 15.0 | C | 10, 20 | T140C156(1)060AS | 5.0 | 6 | | | | | | | | | | | | |
| 18.0 | C | 10, 20 | T140C186(1)060AS | 6.0 | 6 | | | | | | | | | | | | |
| 22.0 | C | 10, 20 | T140C226(1)060AS | 7.0 | 6 | | | | | | | | | | | | |
| 27.0 | D | 10, 20 | T140D276(1)060AS | 10.0 | 6 | | | | | | | | | | | | |
| 33.0 | D | 10, 20 | T140D336(1)060AS | 10.0 | 6 | | | | | | | | | | | | |

(1) To complete T140 Series Part Number, insert Capacitance Tolerance Symbol in the 9th Character as shown on Page 6.

(2) To complete the T242 Series Part Number, insert Failure Rate Symbol in the 13th Character.

*Note: C Failure Rate not QPL for -3085 thru 3087

D Failure Rate not QPL for -4085 thru 4087

Bold Face lines indicate popular part types and values.

Available from 1.2 μF to 1000 μF , 6VDC to 50 VDC, these high capacitance-to-volume ratio, hermetically sealed solid tantalum capacitors are offered in standard MIL style A, B, C, and D cases. They meet or exceed the environmental and mechanical requirements of MIL-C-39003. Designed to operate from -55°C to $+125^{\circ}\text{C}$, they exhibit

exceptionally low DC leakage, dissipation factor and impedance characteristics. They are ideal for coupling, bypass, filtering and timing circuits, and are excellent substitutes for wet tantalums in low voltage applications. They are available in style CSR33 (T252 Series) per MIL-PRF-39003/06.

T252 Series Tantalum
Hermetically Sealed

CAPACITOR OUTLINE DRAWINGS



DIMENSIONS — INCHES & (MILLIMETERS)

| CASE SIZE | UNINSULATED | | INSULATED | | B ± 0.002 ($\pm .05$) | C MAX. |
|-----------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|---------------|
| | D ± 0.005 ($\pm .13$) | L ± 0.031 ($\pm .79$) | D ± 0.010 ($\pm .25$) | L ± 0.031 ($\pm .79$) | | |
| A | 0.125 (3.18) | 0.250 (6.35) | 0.135 (3.43) | 0.286 (7.26) | 0.020 (.51) | 0.422 (10.72) |
| B | 0.175 (4.45) | 0.438 (11.13) | 0.185 (4.70) | 0.474 (12.04) | 0.020 (.51) | 0.610 (15.49) |
| C | 0.279 (7.09) | 0.650 (16.51) | 0.289 (7.34) | 0.686 (17.42) | 0.025 (.64) | 0.822 (20.88) |
| D | 0.341 (8.66) | 0.750 (19.05) | 0.351 (8.92) | 0.786 (19.96) | 0.025 (.64) | 0.922 (23.42) |

ORDERING INFORMATION



For Military Marking Information, see page 4.

RATINGS & PART NUMBER REFERENCE

| CAPACITANCE µF | CASE SIZE | CAPACITANCE TOLERANCE ±% | KEMET T252 SERIES | | | | MIL-PRF-39003 (CSR33) CAPACITORS | | | | | |
|-------------------------------|--------------|--------------------------------|------------------------------------|--|---|------------|----------------------------------|--------------|--|-------------|--------------|------------------|
| | | | D.C. LEAKAGE µA@25°C MAX. | MAX. DISSI- PATION FACTOR %@25°C, 120Hz | DASH NUMBER REFERENCE FAILURE RATE LEVEL (%/1000 HRS.) | | | | KEMET EQUIVALENT MILITARY PART NUMBER | | | |
| | | | | | MIL-PRF-39003/6C EXPONENTIAL | | MIL-PRF-39003/6C GRADED | | | | | |
| | | | | | M (1.0) | P (0.1) | R (0.01) | S (0.001) | B (0.1) | C (0.01) | D (0.001) | |
| 6 VOLT RATING AT 85°C | | | | | | | | | | | | |
| 10.0 | A | 10 | 0.5 | 6 | 0001 | 0101 | 0201 | 0301 | 2001 | 3001 | 4001 | T252A106K006(1)S |
| 10.0 | A | 20 | 0.5 | 6 | 0002 | 0102 | 0202 | 0302 | 2002 | 3002 | 4002 | T252A106M006(1)S |
| 12.0 | A | 10 | 0.5 | 6 | 0003 | 0103 | 0203 | 0303 | 2003 | 3003 | 4003 | T252A126K006(1)S |
| 100.0 | B | 10 | 1.0 | 8 | 0004 | 0104 | 0204 | 0304 | 2004 | 3004 | 4004 | T252B107K006(1)S |
| 100.0 | B | 20 | 1.0 | 8 | 0005 | 0105 | 0205 | 0305 | 2005 | 3005 | 4005 | T252B107M006(1)S |
| 330.0 | C | 10 | 2.0 | 8 | 0006 | 0106 | 0206 | 0306 | 2006 | 3006 | 4006 | T252C337K006(1)S |
| 330.0 | C | 20 | 2.0 | 8 | 0007 | 0107 | 0207 | 0307 | 2007 | 3007 | 4007 | T252C337M006(1)S |
| 390.0 | C | 10 | 2.0 | 10 | 0008 | 0108 | 0208 | 0308 | 2008 | 3008 | 4008 | T252C397K006(1)S |
| 470.0 | C | 10 | 2.0 | 10 | 0009 | 0109 | 0209 | 0309 | 2009 | 3009 | 4009 | T252C477K006(1)S |
| 470.0 | C | 20 | 2.0 | 10 | 0010 | 0110 | 0210 | 0310 | 2010 | 3010 | 4010 | T252C477M006(1)S |
| 680.0 | D | 10 | 5.0 | 10 | 0011 | 0111 | 0211 | 0311 | 2011 | 3011 | 4011 | T252D687K006(1)S |
| 680.0 | D | 20 | 5.0 | 10 | 0012 | 0112 | 0212 | 0312 | 2012 | 3012 | 4012 | T252D687M006(1)S |
| 820.0 | D | 10 | 5.0 | 10 | 0013 | 0113 | 0213 | 0313 | 2013 | 3013 | 4013 | T252D827K006(1)S |
| 1000.0 | D | 10 | 5.0 | 10 | 0014 | 0114 | 0214 | 0314 | 2014 | 3014 | 4014 | T252D108K006(1)S |
| 1000.0 | D | 20 | 5.0 | 10 | 0015 | 0115 | 0215 | 0315 | 2015 | 3015 | 4015 | T252D108M006(1)S |
| 10 VOLT RATING AT 85°C | | | | | | | | | | | | |
| 6.8 | A | 10 | .5 | 6 | 0016 | 0116 | 0216 | 0316 | 2016 | 3016 | 4016 | T252A685K010(1)S |
| 6.8 | A | 20 | .5 | 6 | 0017 | 0117 | 0217 | 0317 | 2017 | 3017 | 4017 | T252A685M010(1)S |
| 8.2 | A | 10 | .5 | 6 | 0018 | 0118 | 0218 | 0318 | 2018 | 3018 | 4018 | T252A825K010(1)S |
| 47.0 | B | 10 | 1.0 | 6 | 0019 | 0119 | 0219 | 0319 | 2019 | 3019 | 4019 | T252B476K010(1)S |
| 47.0 | B | 20 | 1.0 | 6 | 0020 | 0120 | 0220 | 0320 | 2020 | 3020 | 4020 | T252B476M010(1)S |
| 56.0 | B | 10 | 1.0 | 6 | 0021 | 0121 | 0221 | 0321 | 2021 | 3021 | 4021 | T252B566K010(1)S |
| 68.0 | B | 10 | 1.0 | 6 | 0022 | 0122 | 0222 | 0322 | 2022 | 3022 | 4022 | T252B686K010(1)S |
| 68.0 | B | 20 | 1.0 | 6 | 0023 | 0123 | 0223 | 0323 | 2023 | 3023 | 4023 | T252B686M010(1)S |
| 82.0 | B | 10 | 1.0 | 6 | 0024 | 0124 | 0224 | 0324 | 2024 | 3024 | 4024 | T252B826K010(1)S |
| 220.0 | C | 10 | 1.0 | 8 | 0025 | 0125 | 0225 | 0325 | 2025 | 3025 | 4025 | T252C227K010(1)S |
| 220.0 | C | 20 | 1.0 | 8 | 0026 | 0126 | 0226 | 0326 | 2026 | 3026 | 4026 | T252C227M010(1)S |
| 270.0 | C | 10 | 2.0 | 8 | 0027 | 0127 | 0227 | 0327 | 2027 | 3027 | 4027 | T252C277K010(1)S |
| 390.0 | D | 10 | 2.0 | 10 | 0028 | 0128 | 0228 | 0328 | 2028 | 3028 | 4028 | T252D397K010(1)S |
| 470.0 | D | 10 | 4.0 | 10 | 0029 | 0129 | 0229 | 0329 | 2029 | 3029 | 4029 | T252D477K010(1)S |
| 470.0 | D | 20 | 4.0 | 10 | 0030 | 0130 | 0230 | 0330 | 2030 | 3030 | 4030 | T252D477M010(1)S |
| 560.0 | D | 10 | 4.0 | 10 | 0031 | 0131 | 0231 | 0331 | 2031 | 3031 | 4031 | T252D567K010(1)S |
| 15 VOLT RATING AT 85°C | | | | | | | | | | | | |
| 4.7 | A | 10 | .5 | 4 | 0032 | 0132 | 0232 | 0332 | 2032 | 3032 | 4032 | T252A475K015(1)S |
| 4.7 | A | 20 | .5 | 4 | 0033 | 0133 | 0233 | 0333 | 2033 | 3033 | 4033 | T252A475M015(1)S |
| 5.6 | A | 10 | .5 | 4 | 0034 | 0134 | 0234 | 0334 | 2034 | 3034 | 4034 | T252A565K015(1)S |
| 33.0 | B | 10 | 1.0 | 6 | 0035 | 0135 | 0235 | 0335 | 2035 | 3035 | 4035 | T252B336K015(1)S |
| 33.0 | B | 20 | 1.0 | 6 | 0036 | 0136 | 0236 | 0336 | 2036 | 3036 | 4036 | T252B336M015(1)S |
| 39.0 | B | 10 | 1.0 | 6 | 0037 | 0137 | 0237 | 0337 | 2037 | 3037 | 4037 | T252B396K015(1)S |
| 150.0 | C | 10 | 1.0 | 8 | 0038 | 0138 | 0238 | 0338 | 2038 | 3038 | 4038 | T252C157K015(1)S |
| 150.0 | C | 20 | 1.0 | 8 | 0039 | 0139 | 0239 | 0339 | 2039 | 3039 | 4039 | T252C157M015(1)S |
| 180.0 | C | 10 | 2.0 | 8 | 0040 | 0140 | 0240 | 0340 | 2040 | 3040 | 4040 | T252C187K015(1)S |
| 220.0 | D | 10 | 2.0 | 8 | 0041 | 0141 | 0241 | 0341 | 2041 | 3041 | 4041 | T252D227K015(1)S |
| 220.0 | D | 20 | 2.0 | 8 | 0042 | 0142 | 0242 | 0342 | 2042 | 3042 | 4042 | T252D227M015(1)S |
| 270.0 | D | 10 | 2.0 | 8 | 0043 | 0143 | 0243 | 0343 | 2043 | 3043 | 4043 | T252D277K015(1)S |
| 330.0 | D | 10 | 2.0 | 8 | 0044 | 0144 | 0244 | 0344 | 2044 | 3044 | 4044 | T252D337K015(1)S |
| 330.0 | D | 20 | 2.0 | 8 | 0045 | 0145 | 0245 | 0345 | 2045 | 3045 | 4045 | T252D337M015(1)S |

(1) To complete Part Number, insert Failure Rate Symbol in the 13th Character as shown on Page 31.

RATINGS & PART NUMBER REFERENCE

| CAPACITANCE µF | CASE SIZE | CAPACITANCE TOLERANCE ±% | KEMET T252 SERIES | | | | MIL-PRF-39003 (CSR33) CAPACITORS | | | | | |
|-------------------------------|--------------|--------------------------------|------------------------------------|--|---|------------|----------------------------------|--------------|----------------------------|-------------|--------------|--|
| | | | D.C. LEAKAGE µA@25°C MAX. | MAX. DISSI- PATION FACTOR %@25°C, 120Hz | DASH NUMBER REFERENCE FAILURE RATE LEVEL (%/1000 HRS.) | | | | MIL-PRF-39003/6C GRADED | | | KEMET EQUIVALENT MILITARY PART NUMBER |
| | | | | | MIL-PRF-39003/6C EXPONENTIAL | | | | | | | |
| | | | | | M (1.0) | P (0.1) | R (0.01) | S (0.001) | B (0.1) | C (0.01) | D (0.001) | |
| 20 VOLT RATING AT 85°C | | | | | | | | | | | | |
| 2.7 | A | 10 | .5 | 4 | 0046 | 0146 | 0246 | 0346 | 2046 | 3046 | 4046 | T252A275K020(1)S |
| 3.3 | A | 10 | .5 | 4 | 0047 | 0147 | 0247 | 0347 | 2047 | 3047 | 4047 | T252A335K020(1)S |
| 3.3 | A | 20 | .5 | 4 | 0048 | 0148 | 0248 | 0348 | 2048 | 3048 | 4048 | T252A335M020(1)S |
| 3.9 | A | 10 | .5 | 4 | 0049 | 0149 | 0249 | 0349 | 2049 | 3049 | 4049 | T252A395K020(1)S |
| 18.0 | B | 10 | 1.0 | 6 | 0050 | 0150 | 0250 | 0350 | 2050 | 3050 | 4050 | T252B186K020(1)S |
| 22.0 | B | 10 | 1.0 | 6 | 0051 | 0151 | 0251 | 0351 | 2051 | 3051 | 4051 | T252B226K020(1)S |
| 22.0 | B | 20 | 1.0 | 6 | 0052 | 0152 | 0252 | 0352 | 2052 | 3052 | 4052 | T252B226M020(1)S |
| 27.0 | B | 10 | 1.0 | 6 | 0053 | 0153 | 0253 | 0353 | 2053 | 3053 | 4053 | T252B276K020(1)S |
| 56.0 | C | 10 | 1.0 | 6 | 0054 | 0154 | 0254 | 0354 | 2054 | 3054 | 4054 | T252C566K020(1)S |
| 68.0 | C | 10 | 1.0 | 6 | 0055 | 0155 | 0255 | 0355 | 2055 | 3055 | 4055 | T252C686K020(1)S |
| 68.0 | C | 20 | 1.0 | 6 | 0056 | 0156 | 0256 | 0356 | 2056 | 3056 | 4056 | T252C686M020(1)S |
| 82.0 | C | 10 | 1.0 | 6 | 0057 | 0157 | 0257 | 0357 | 2057 | 3057 | 4057 | T252C826K020(1)S |
| 100.0 | C | 10 | 1.0 | 6 | 0058 | 0158 | 0258 | 0358 | 2058 | 3058 | 4058 | T252C107K020(1)S |
| 100.0 | C | 20 | 1.0 | 6 | 0059 | 0159 | 0259 | 0359 | 2059 | 3059 | 4059 | T252C107M020(1)S |
| 120.0 | C | 10 | 1.0 | 6 | 0060 | 0160 | 0260 | 0360 | 2060 | 3060 | 4060 | T252C127K020(1)S |
| 150.0 | D | 10 | 2.0 | 8 | 0061 | 0161 | 0261 | 0361 | 2061 | 3061 | 4061 | T252D157K020(1)S |
| 150.0 | D | 20 | 2.0 | 8 | 0062 | 0162 | 0262 | 0362 | 2062 | 3062 | 4062 | T252D157M020(1)S |
| 180.0 | D | 10 | 2.0 | 8 | 0063 | 0163 | 0263 | 0363 | 2063 | 3063 | 4063 | T252D187K020(1)S |
| 35 VOLT RATING AT 85°C | | | | | | | | | | | | |
| 1.8 | A | 10 | .5 | 4 | 0064 | 0164 | 0264 | 0364 | 2064 | 3064 | 4064 | T252A185K035(1)S |
| 8.2 | B | 10 | 1.0 | 6 | 0065 | 0165 | 0265 | 0365 | 2065 | 3065 | 4065 | T252B825K035(1)S |
| 10.0 | B | 10 | 1.0 | 6 | 0066 | 0166 | 0266 | 0366 | 2066 | 3066 | 4066 | T252B106K035(1)S |
| 10.0 | B | 20 | 1.0 | 6 | 0067 | 0167 | 0267 | 0367 | 2067 | 3067 | 4067 | T252B106M035(1)S |
| 33.0 | C | 10 | 1.0 | 6 | 0068 | 0168 | 0268 | 0368 | 2068 | 3068 | 4068 | T252C336K035(1)S |
| 33.0 | C | 20 | 1.0 | 6 | 0069 | 0169 | 0269 | 0369 | 2069 | 3069 | 4069 | T252C336M035(1)S |
| 39.0 | C | 10 | 1.0 | 6 | 0070 | 0170 | 0270 | 0370 | 2070 | 3070 | 4070 | T252C396K035(1)S |
| 47.0 | C | 10 | 1.0 | 6 | 0071 | 0171 | 0271 | 0371 | 2071 | 3071 | 4071 | T252C476K035(1)S |
| 47.0 | C | 20 | 1.0 | 6 | 0072 | 0172 | 0272 | 0372 | 2072 | 3072 | 4072 | T252C476M035(1)S |
| 56.0 | D | 10 | 2.0 | 6 | 0073 | 0173 | 0273 | 0373 | 2073 | 3073 | 4073 | T252D566K035(1)S |
| 68.0 | D | 10 | 2.0 | 6 | 0074 | 0174 | 0274 | 0374 | 2074 | 3074 | 4074 | T252D686K035(1)S |
| 68.0 | D | 20 | 2.0 | 6 | 0075 | 0175 | 0275 | 0375 | 2075 | 3075 | 4075 | T252D686M035(1)S |
| 50 VOLT RATING AT 85°C | | | | | | | | | | | | |
| 1.2 | A | 10 | .5 | 4 | 0076 | 0176 | 0276 | 0376 | 2076 | 3076 | 4076 | T252A125K050(1)S |
| 1.5 | A | 10 | .5 | 4 | 0077 | 0177 | 0277 | 0377 | 2077 | 3077 | 4077 | T252A155K050(1)S |
| 1.5 | A | 20 | .5 | 4 | 0078 | 0178 | 0278 | 0378 | 2078 | 3078 | 4078 | T252A155M050(1)S |
| 5.6 | B | 10 | 1.0 | 4 | 0079 | 0179 | 0279 | 0379 | 2079 | 3079 | 4079 | T252B565K050(1)S |
| 6.8 | B | 10 | 1.0 | 6 | 0080 | 0180 | 0280 | 0380 | 2080 | 3080 | 4080 | T252B685K050(1)S |
| 6.8 | B | 20 | 1.0 | 6 | 0081 | 0181 | 0281 | 0381 | 2081 | 3081 | 4081 | T252B685M050(1)S |
| 22.0 | C | 10 | 1.0 | 6 | 0082 | 0182 | 0282 | 0382 | 2082 | 3082 | 4082 | T252C226K050(1)S |
| 22.0 | C | 20 | 1.0 | 6 | 0083 | 0183 | 0283 | 0383 | 2083 | 3083 | 4083 | T252C226M050(1)S |
| 27.0 | C | 10 | 1.0 | 6 | 0084 | 0184 | 0284 | 0384 | 2084 | 3084 | 4084 | T252C276K050(1)S |
| 33.0 | D | 10 | 1.0 | 6 | 0085 | 0185 | 0285 | 0385 | 2085 | * | * | T252D336K050(1)S |
| 33.0 | D | 20 | 1.0 | 6 | 0086 | 0186 | 0286 | 0386 | 2086 | * | * | T252D336M050(1)S |
| 39.0 | D | 10 | 1.0 | 6 | 0087 | 0187 | 0287 | 0387 | 2087 | * | * | T252D396K050(1)S |

(1) To complete Part Number, insert Failure Rate Symbol in the 13th Character as shown on Page 31.
*NOTE: C Failure rate not QPL for -3085 thru 3087.
D Failure rate not QPL for -4085 thru 4087.

T252 Series Tantalum
Hermetically Sealed

KEMET's T262 (CSR21) per MIL-C-39003/09 hermetically sealed solid tantalum capacitors are similar to KEMET's popular T212 (CSR13 per MIL-PRF-39003/01) capacitors shown on page 6, but offer higher ripple current handling capability and exhibit exceptionally low Equivalent Series Resistance (ESR).

The T262 Series is ideal for filtering applications and in military power supplies where low ESR is essential. T262s are 100% surge current tested and their dissipation factor is screened at 1kHz. Available in C & D case sizes only, 5.6 to 330 μ F, 6 to 50 VDC.

CAPACITOR OUTLINE DRAWINGS



DIMENSIONS — INCHES & (MILLIMETERS)

| CASE SIZE | UNINSULATED | | INSULATED | | B ± 0.002 ($\pm .05$) | C MAX. |
|-----------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|---------------|
| | D ± 0.005 ($\pm .13$) | L ± 0.031 ($\pm .79$) | D ± 0.010 ($\pm .25$) | L ± 0.031 ($\pm .79$) | | |
| C | 0.279 (7.09) | 0.650 (16.51) | 0.289 (7.34) | 0.686 (17.42) | 0.025 (.64) | 0.822 (20.88) |
| D | 0.341 (8.66) | 0.750 (19.05) | 0.351 (8.92) | 0.786 (19.96) | 0.025 (.64) | 0.922 (23.42) |

ORDERING INFORMATION



For Military Marking Information, see page 4.

RATINGS & PART NUMBER REFERENCE

| CAPACITANCE μF | CASE SIZE | CAPACITANCE TOLERANCE ±% | KEMET T262 SERIES | | | | MIL-PRF-39003/09 (CSR21) CAPACITORS | | | | | | | KEMET EQUIVALENT MILITARY PART NUMBER |
|---|--------------|--------------------------------|------------------------------------|---|--------------------------------|---|---|------------|-------------|--------------|----------------------------|-------------|--------------|--|
| | | | D.C. LEAKAGE μA@25°C MAX. | MAX. DISSI- PATION FACTOR %@25°C, 1 kHz | MAX. ESR Ω@25°C, 100 kHz | MAX. RIPPLE CURRENT Arms@25°C 40 kHz | DASH NUMBER REFERENCE FAILURE RATE LEVEL (%/1000 HRS.) | | | | | | | |
| | | | | | | | MIL-PRF-39003/9D EXPONENTIAL | | | | MIL-PRF-39003/9D GRADED | | | |
| | | | | | | | M (1.0) | P (0.1) | R (0.01) | S (0.001) | B (0.1) | C (0.01) | D (0.001) | |
| 6 VOLT RATING AT 85°C — 4 VOLT RATING AT 125°C | | | | | | | | | | | | | | |
| 150.0 | C | 5 | 4.5 | 10 | .065 | 3.3 | 0001 | 0101 | 0201 | 0301 | 2001 | 3001 | 4001 | T262C157J006(1)S |
| 150.0 | C | 10 | 4.5 | 10 | .065 | 3.3 | 0002 | 0102 | 0202 | 0302 | 2002 | 3002 | 4002 | T262C157K006(1)S |
| 150.0 | C | 20 | 4.5 | 10 | .065 | 3.3 | 0003 | 0103 | 0203 | 0303 | 2003 | 3003 | 4003 | T262C157M006(1)S |
| 180.0 | C | 5 | 5.5 | 10 | .060 | 3.4 | 0004 | 0104 | 0204 | 0304 | 2004 | 3004 | 4004 | T262C187J006(1)S |
| 180.0 | C | 10 | 5.5 | 10 | .060 | 3.4 | 0005 | 0105 | 0205 | 0305 | 2005 | 3005 | 4005 | T262C187K006(1)S |
| 270.0 | D | 5 | 6.5 | 10 | .050 | 4.1 | 0006 | 0106 | 0206 | 0306 | 2006 | 3006 | 4006 | T262D277J006(1)S |
| 270.0 | D | 10 | 6.5 | 10 | .050 | 4.1 | 0007 | 0107 | 0207 | 0307 | 2007 | 3007 | 4007 | T262D277K006(1)S |
| 330.0 | D | 5 | 7.5 | 12 | .045 | 4.3 | 0008 | 0108 | 0208 | 0308 | 2008 | 3008 | 4008 | T262D337J006(1)S |
| 330.0 | D | 10 | 7.5 | 12 | .045 | 4.3 | 0009 | 0109 | 0209 | 0309 | 2009 | 3009 | 4009 | T262D337K006(1)S |
| 330.0 | D | 20 | 7.5 | 12 | .045 | 4.3 | 0010 | 0110 | 0210 | 0310 | 2010 | 3010 | 4010 | T262D337M006(1)S |
| 10 VOLT RATING AT 85°C — 7 VOLT RATING AT 125°C | | | | | | | | | | | | | | |
| 82.0 | C | 5 | 4.0 | 8 | .085 | 2.9 | 0011 | 0111 | 0211 | 0311 | 2011 | 3011 | 4011 | T262C826J010(1)S |
| 82.0 | C | 10 | 4.0 | 8 | .085 | 2.9 | 0012 | 0112 | 0212 | 0312 | 2012 | 3012 | 4012 | T262C826K010(1)S |
| 100.0 | C | 5 | 5.0 | 8 | .075 | 3.0 | 0013 | 0113 | 0213 | 0313 | 2013 | 3013 | 4013 | T262C107J010(1)S |
| 100.0 | C | 10 | 5.0 | 8 | .075 | 3.0 | 0014 | 0114 | 0214 | 0314 | 2014 | 3014 | 4014 | T262C107K010(1)S |
| 100.0 | C | 20 | 5.0 | 8 | .075 | 3.0 | 0015 | 0115 | 0215 | 0315 | 2015 | 3015 | 4015 | T262C107M010(1)S |
| 120.0 | C | 5 | 6.0 | 8 | .070 | 3.2 | 0016 | 0116 | 0216 | 0316 | 2016 | 3016 | 4016 | T262C127J010(1)S |
| 120.0 | C | 10 | 6.0 | 8 | .070 | 3.2 | 0017 | 0117 | 0217 | 0317 | 2017 | 3017 | 4017 | T262C127K010(1)S |
| 180.0 | D | 5 | 9.0 | 8 | .060 | 3.7 | 0018 | 0118 | 0218 | 0318 | 2018 | 3018 | 4018 | T262D187J010(1)S |
| 180.0 | D | 10 | 9.0 | 8 | .060 | 3.7 | 0019 | 0119 | 0219 | 0319 | 2019 | 3019 | 4019 | T262D187K010(1)S |
| 220.0 | D | 5 | 10.0 | 10 | .055 | 3.9 | 0020 | 0120 | 0220 | 0320 | 2020 | 3020 | 4020 | T262D227J010(1)S |
| 220.0 | D | 10 | 10.0 | 10 | .055 | 3.9 | 0021 | 0121 | 0221 | 0321 | 2021 | 3021 | 4021 | T262D227K010(1)S |
| 220.0 | D | 20 | 10.0 | 10 | .055 | 3.9 | 0022 | 0122 | 0222 | 0322 | 2022 | 3022 | 4022 | T262D227M010(1)S |
| 15 VOLT RATING AT 85°C — 10 VOLT RATING AT 125°C | | | | | | | | | | | | | | |
| 56.0 | C | 5 | 4.0 | 6 | .100 | 2.6 | 0023 | 0123 | 0223 | 0323 | 2023 | 3023 | 4023 | T262C566J015(1)S |
| 56.0 | C | 10 | 4.0 | 6 | .100 | 2.6 | 0024 | 0124 | 0224 | 0324 | 2024 | 3024 | 4024 | T262C566K015(1)S |
| 68.0 | C | 5 | 5.0 | 6 | .095 | 2.7 | 0025 | 0125 | 0225 | 0325 | 2025 | 3025 | 4025 | T262C686J015(1)S |
| 68.0 | C | 10 | 5.0 | 6 | .095 | 2.7 | 0026 | 0126 | 0226 | 0326 | 2026 | 3026 | 4026 | T262C686K015(1)S |
| 68.0 | C | 20 | 5.0 | 6 | .095 | 2.7 | 0027 | 0127 | 0227 | 0327 | 2027 | 3027 | 4027 | T262C686M015(1)S |
| 120.0 | D | 5 | 9.0 | 8 | .070 | 3.5 | 0028 | 0128 | 0228 | 0328 | 2028 | 3028 | 4028 | T262D127J015(1)S |
| 120.0 | D | 10 | 9.0 | 8 | .070 | 3.5 | 0029 | 0129 | 0229 | 0329 | 2029 | 3029 | 4029 | T262D127K015(1)S |
| 150.0 | D | 5 | 10.0 | 8 | .065 | 3.6 | 0030 | 0130 | 0230 | 0330 | 2030 | 3030 | 4030 | T262D157J015(1)S |
| 150.0 | D | 10 | 10.0 | 8 | .065 | 3.6 | 0031 | 0131 | 0231 | 0331 | 2031 | 3031 | 4031 | T262D157K015(1)S |
| 150.0 | D | 20 | 10.0 | 8 | .065 | 3.6 | 0032 | 0132 | 0232 | 0332 | 2032 | 3032 | 4032 | T262D157M015(1)S |
| 20 VOLT RATING AT 85°C — 13 VOLT RATING AT 125°C | | | | | | | | | | | | | | |
| 27.0 | C | 5 | 2.5 | 5 | .145 | 2.2 | 0033 | 0133 | 0233 | 0333 | 2033 | 3033 | 4033 | T262C276J020(1)S |
| 27.0 | C | 10 | 2.5 | 5 | .145 | 2.2 | 0034 | 0134 | 0234 | 0334 | 2034 | 3034 | 4034 | T262C276K020(1)S |
| 33.0 | C | 5 | 3.5 | 5 | .130 | 2.3 | 0035 | 0135 | 0235 | 0335 | 2035 | 3035 | 4035 | T262C336J020(1)S |
| 33.0 | C | 10 | 3.5 | 5 | .130 | 2.3 | 0036 | 0136 | 0236 | 0336 | 2036 | 3036 | 4036 | T262C336K020(1)S |
| 33.0 | C | 20 | 3.5 | 5 | .130 | 2.3 | 0037 | 0137 | 0237 | 0337 | 2037 | 3037 | 4037 | T262C336M020(1)S |
| 39.0 | C | 5 | 4.0 | 5 | .120 | 2.4 | 0038 | 0138 | 0238 | 0338 | 2038 | 3038 | 4038 | T262C396J020(1)S |
| 39.0 | C | 10 | 4.0 | 5 | .120 | 2.4 | 0039 | 0139 | 0239 | 0339 | 2039 | 3039 | 4039 | T262C396K020(1)S |
| 47.0 | C | 5 | 4.5 | 6 | .110 | 2.5 | 0040 | 0140 | 0240 | 0340 | 2040 | 3040 | 4040 | T262C476J020(1)S |
| 47.0 | C | 10 | 4.5 | 6 | .110 | 2.5 | 0041 | 0141 | 0241 | 0341 | 2041 | 3041 | 4041 | T262C476K020(1)S |
| 47.0 | C | 20 | 4.5 | 6 | .110 | 2.5 | 0042 | 0142 | 0242 | 0342 | 2042 | 3042 | 4042 | T262C476M020(1)S |
| 56.0 | D | 5 | 5.5 | 6 | .100 | 2.9 | 0043 | 0143 | 0243 | 0343 | 2043 | 3043 | 4043 | T262D566J020(1)S |
| 56.0 | D | 10 | 5.5 | 6 | .100 | 2.9 | 0044 | 0144 | 0244 | 0344 | 2044 | 3044 | 4044 | T262D566K020(1)S |
| 68.0 | D | 5 | 7.0 | 6 | .095 | 3.0 | 0045 | 0145 | 0245 | 0345 | 2045 | 3045 | 4045 | T262D686J020(1)S |
| 68.0 | D | 10 | 7.0 | 6 | .095 | 3.0 | 0046 | 0146 | 0246 | 0346 | 2046 | 3046 | 4046 | T262D686K020(1)S |
| 68.0 | D | 20 | 7.0 | 6 | .095 | 3.0 | 0047 | 0147 | 0247 | 0347 | 2047 | 3047 | 4047 | T262D686M020(1)S |
| 82.0 | D | 5 | 8.0 | 6 | .085 | 3.1 | 0048 | 0148 | 0248 | 0348 | 2048 | 3048 | 4048 | T262D826J020(1)S |
| 82.0 | D | 10 | 8.0 | 6 | .085 | 3.1 | 0049 | 0149 | 0249 | 0349 | 2049 | 3049 | 4049 | T262D826K020(1)S |
| 100.0 | D | 5 | 10.0 | 8 | .075 | 3.3 | 0050 | 0150 | 0250 | 0350 | 2050 | 3050 | 4050 | T262D107J020(1)S |
| 100.0 | D | 10 | 10.0 | 8 | .075 | 3.3 | 0051 | 0151 | 0251 | 0351 | 2051 | 3051 | 4051 | T262D107K020(1)S |
| 100.0 | D | 20 | 10.0 | 8 | .075 | 3.3 | 0052 | 0152 | 0252 | 0352 | 2052 | 3052 | 4052 | T262D107M020(1)S |

(1) To complete the T262 Series Part Number, insert Failure Rate Symbol in the 13th Character as shown on Page 34.

T262 Series Tantalum
Hermetically Sealed

RATINGS & PART NUMBER REFERENCE

| CAPACITANCE μF | CASE SIZE | CAPACITANCE TOLERANCE ±% | KEMET T262 SERIES | | | | MIL-PRF-39003/09 (CSR21) CAPACITORS | | | | | | | KEMET EQUIVALENT MILITARY PART NUMBER |
|---|--------------|--------------------------------|------------------------------------|--|--------------------------------|---|---|------------|-------------|--------------|----------------------------|-------------|--------------|--|
| | | | D.C. LEAKAGE μA@25°C MAX. | MAX. DISSI- PATION FACTOR %@25°C, 1 kHz | MAX. ESR Ω@25°C, 100 kHz | MAX. RIPPLE CURRENT Arms@25°C 40 kHz | DASH NUMBER REFERENCE FAILURE RATE LEVEL (%/1000 HRS.) | | | | | | | |
| | | | | | | | MIL-PRF-39003/9D EXPONENTIAL | | | | MIL-PRF-39003/9D GRADED | | | |
| | | | | | | | M (1.0) | P (0.1) | R (0.01) | S (0.001) | B (0.1) | C (0.01) | D (0.001) | |
| 35 VOLT RATING AT 85°C — 23 VOLT RATING AT 125°C | | | | | | | | | | | | | | |
| 22.0 | C | 5 | 4.0 | 4 | .160 | 2.1 | 0053 | 0153 | 0253 | 0353 | 2053 | 3053 | 4053 | T262C226J035(1)S |
| 22.0 | C | 10 | 4.0 | 4 | .160 | 2.1 | 0054 | 0154 | 0254 | 0354 | 2054 | 3054 | 4054 | T262C226K035(1)S |
| 22.0 | C | 20 | 4.0 | 4 | .160 | 2.1 | 0055 | 0155 | 0255 | 0355 | 2055 | 3055 | 4055 | T262C226M035(1)S |
| 27.0 | D | 5 | 4.5 | 4 | .145 | 2.4 | 0056 | 0156 | 0256 | 0356 | 2056 | 3056 | 4056 | T262D276J035(1)S |
| 27.0 | D | 10 | 4.5 | 4 | .145 | 2.4 | 0057 | 0157 | 0257 | 0357 | 2057 | 3057 | 4057 | T262D276K035(1)S |
| 33.0 | D | 5 | 5.5 | 5 | .130 | 2.5 | 0058 | 0158 | 0258 | 0358 | 2058 | 3058 | 4058 | T262D336J035(1)S |
| 33.0 | D | 10 | 5.5 | 5 | .130 | 2.5 | 0059 | 0159 | 0259 | 0359 | 2059 | 3059 | 4059 | T262D336K035(1)S |
| 33.0 | D | 20 | 5.5 | 5 | .130 | 2.5 | 0060 | 0160 | 0260 | 0360 | 2060 | 3060 | 4060 | T262D336M035(1)S |
| 39.0 | D | 5 | 7.0 | 5 | .120 | 2.6 | 0061 | 0161 | 0261 | 0361 | 2061 | 3061 | 4061 | T262D396J035(1)S |
| 39.0 | D | 10 | 7.0 | 5 | .120 | 2.6 | 0062 | 0162 | 0262 | 0362 | 2062 | 3062 | 4062 | T262D396K035(1)S |
| 47.0 | D | 5 | 8.0 | 5 | .110 | 2.7 | 0063 | 0163 | 0263 | 0363 | 2063 | 3063 | 4063 | T262D476J035(1)S |
| 47.0 | D | 10 | 8.0 | 5 | .110 | 2.7 | 0064 | 0164 | 0264 | 0364 | 2064 | 3064 | 4064 | T262D476K035(1)S |
| 47.0 | D | 20 | 8.0 | 5 | .110 | 2.7 | 0065 | 0165 | 0265 | 0365 | 2065 | 3065 | 4065 | T262D476M035(1)S |
| 50 VOLT RATING AT 85°C — 33 VOLT RATING AT 125°C | | | | | | | | | | | | | | |
| 5.6 | C | 5 | 2.2 | 3 | .300 | 1.5 | 0066 | 0166 | 0266 | 0366 | 2066 | 3066 | 4066 | T262C565J050(1)S |
| 5.6 | C | 10 | 2.2 | 3 | .300 | 1.5 | 0067 | 0167 | 0267 | 0367 | 2067 | 3067 | 4067 | T262C565K050(1)S |
| 6.8 | C | 5 | 2.2 | 3 | .275 | 1.6 | 0068 | 0168 | 0268 | 0368 | 2068 | 3068 | 4068 | T262C685J050(1)S |
| 6.8 | C | 10 | 2.2 | 3 | .275 | 1.6 | 0069 | 0169 | 0269 | 0369 | 2069 | 3069 | 4069 | T262C685K050(1)S |
| 6.8 | C | 20 | 2.2 | 3 | .275 | 1.6 | 0070 | 0170 | 0270 | 0370 | 2070 | 3070 | 4070 | T262C685M050(1)S |
| 8.2 | C | 5 | 2.5 | 3 | .250 | 1.6 | 0071 | 0171 | 0271 | 0371 | 2071 | 3071 | 4071 | T262C825J050(1)S |
| 8.2 | C | 10 | 2.5 | 3 | .250 | 1.6 | 0072 | 0172 | 0272 | 0372 | 2072 | 3072 | 4072 | T262C825K050(1)S |
| 10.0 | C | 5 | 2.5 | 3 | .230 | 1.7 | 0073 | 0173 | 0273 | 0373 | 2073 | 3073 | 4073 | T262C106J050(1)S |
| 10.0 | C | 10 | 2.5 | 3 | .230 | 1.7 | 0074 | 0174 | 0274 | 0374 | 2074 | 3074 | 4074 | T262C106K050(1)S |
| 10.0 | C | 20 | 2.5 | 3 | .230 | 1.7 | 0075 | 0175 | 0275 | 0375 | 2075 | 3075 | 4075 | T262C106M050(1)S |
| 12.0 | C | 5 | 3.0 | 3 | .210 | 1.8 | 0076 | 0176 | 0276 | 0376 | 2076 | 3076 | 4076 | T262C126J050(1)S |
| 12.0 | C | 10 | 3.0 | 3 | .210 | 1.8 | 0077 | 0177 | 0277 | 0377 | 2077 | 3077 | 4077 | T262C126K050(1)S |
| 15.0 | C | 5 | 4.0 | 3 | .190 | 1.9 | 0078 | 0178 | 0278 | 0378 | 2078 | 3078 | 4078 | T262C156J050(1)S |
| 15.0 | C | 10 | 4.0 | 3 | .190 | 1.9 | 0079 | 0179 | 0279 | 0379 | 2079 | 3079 | 4079 | T262C156K050(1)S |
| 15.0 | C | 20 | 4.0 | 3 | .190 | 1.9 | 0080 | 0180 | 0280 | 0380 | 2080 | 3080 | 4080 | T262C156M050(1)S |
| 18.0 | C | 5 | 4.5 | 4 | .175 | 2.0 | 0081 | 0181 | 0281 | 0381 | 2081 | 3081 | 4081 | T262C186J050(1)S |
| 18.0 | C | 10 | 4.5 | 4 | .175 | 2.0 | 0082 | 0182 | 0282 | 0382 | 2082 | 3082 | 4082 | T262C186K050(1)S |
| 22.0 | D | 5 | 5.5 | 4 | .160 | 2.3 | 0083 | 0183 | 0283 | 0383 | 2083 | 3083 | 4083 | T262D226J050(1)S |
| 22.0 | D | 10 | 5.5 | 4 | .160 | 2.3 | 0084 | 0184 | 0284 | 0384 | 2084 | 3084 | 4084 | T262D226K050(1)S |
| 22.0 | D | 20 | 5.5 | 4 | .160 | 2.3 | 0085 | 0185 | 0285 | 0385 | 2085 | 3085 | 4085 | T262D226M050(1)S |

(1) To complete the T262 Series Part Number, insert Failure Rate Symbol in the 13th Character as shown on Page 34.

T216 and T256 are KEMET's new designation for MIL-Style CSS13 and CSS33 capacitors. The T216/T256 Series is qualified to all failure rates per MIL-PRF-39003/10. Products meeting this specification have passed rigorous test requirements and are used in space applications or other equally demanding environments.

The T216 is available in capacitance ratings from .15 μ F to 330 μ F; voltage ratings from 6 VDC to 75 VDC. The T256 is available in capacitance ratings from 1.2 μ F to 1000 μ F with voltage ratings of 6 VDC to 50 VDC.

These capacitors provide circuit designers an excellent choice for blocking, bypass, decoupling, filtering and timing applications.

CAPACITOR OUTLINE DRAWINGS



DIMENSIONS — INCHES & (MILLIMETERS)

| CASE SIZE | UNINSULATED | | INSULATED | | B ± 0.002 ($\pm .05$) | C MAX. |
|-----------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|---------------|
| | D ± 0.005 ($\pm .13$) | L ± 0.031 ($\pm .79$) | D ± 0.010 ($\pm .25$) | L ± 0.031 ($\pm .79$) | | |
| A | 0.125 (3.18) | 0.250 (6.35) | 0.135 (3.43) | 0.286 (7.26) | 0.020 (.51) | 0.422 (10.72) |
| B | 0.175 (4.45) | 0.438 (11.13) | 0.185 (4.70) | 0.474 (12.04) | 0.020 (.51) | 0.610 (15.49) |
| C | 0.279 (7.09) | 0.650 (16.51) | 0.289 (7.34) | 0.686 (17.42) | 0.025 (.64) | 0.822 (20.88) |
| D | 0.341 (8.66) | 0.750 (19.05) | 0.351 (8.92) | 0.786 (19.96) | 0.025 (.64) | 0.922 (23.42) |

ORDERING INFORMATION



*Part Number Example: T216A105K050CS (14 digits – no spaces)

T216/T256 Series Tantalum Hermetically Sealed

MIL-PRF-39003/10 ORDERING INFORMATION

M39003/10 — 3078S



MARKING INFORMATION

A CASE

| | |
|--------|--|
| 39003 | Military specification number |
| 10 - K | Specification sheet number and trademark |
| 3078S | Military dash number and "S" for sleeved |
| +J310 | Polarity, "J" for JAN date code (1st digit indicates year and the next two digits indicate the week) |
| XYA | Lot, unique lot code |

C & D CASE

| | |
|------------|---|
| M39003 | Military specification number |
| 10-2049SJ | Specification sheet number, military dash number and "J" for Jan. |
| +6.8 μF | Positive terminal identifier and capacitance value |
| 10% 35V | Capacitance tolerance and voltage rating |
| 31433 | Source code |
| 0310 NAB K | Date code, lot code, unique lot code, and trademark |

B CASE

| | |
|--------|--|
| M39003 | Military specification number |
| 10 - | Specification sheet number |
| 3082SJ | Military dash number and "J" for JAN |
| 31433 | Source code |
| +310 | Polarity, date code (1st digit indicates year and the next two digits indicate the week) |
| NABK | Lot code, unique lot code and trademark. |

NOTE: Marking will include S or U after the MIL dash number, a third letter following lot symbol or lot code designates a unique lot identifier, and a black band on negative end of case.

■ Black band on negative end.

T216/(CSS13) RATINGS & PART NUMBER REFERENCE

| CAPACITANCE μF | KEMET T216 SERIES | | | | | | | | MIL-PRF-39003 (CSS13) CAPACITORS | |
|--------------------------------|-------------------|---|----------------|----------------|-----------------|-------------------------|-----------------------|----------------------------|---|----------|
| | CASE SIZE | KEMET EQUIVALENT PART NUMBER FOR CSS13 CAPACITORS | DC LEAKAGE | | | MAX. DISSIPATION FACTOR | | MAX. ESR Ω @ 25°C, 100 kHz | DASH NUMBER REFERENCE FAILURE RATE LEVEL (%/1000 HRS) MIL-PRF-39003/10 GRADED | |
| | | | μA @ +25° MAX. | μA @ +85° MAX. | μA @ +125° MAX. | % @ -55°C +25°C MAX. | % @ -85°C +125°C MAX. | | B (0.1) | C (0.01) |
| 6 VOLT RATING AT 85° C | | | | | | | | | | |
| 5.6 | A | T216A565K006CS | 0.3 | 6.0 | 7.5 | 4 | 4 | 0.90 | 2001(1) | 3001(1) |
| 6.8 | A | T216A685K006CS | 0.3 | 6.0 | 7.5 | 6 | 6 | 0.80 | 2002(1) | 3002(1) |
| 47.0 | B | T216B476K006CS | 1.5 | 24.0 | 30.0 | 6 | 6 | 0.24 | 2003(1) | 3003(1) |
| 56.0 | B | T216B566K006CS | 1.5 | 24.0 | 30.0 | 6 | 6 | 0.24 | 3004(1) | 3004(1) |
| 150.0 | C | T216C157K006CS | 4.5 | 90.0 | 113.0 | 8 | 8 | 0.09 | 2005(1) | 3005(1) |
| 180.0 | C | T216C187K006CS | 5.5 | 110.0 | 138.0 | 8 | 8 | 0.08 | 3206(1) | 3006(1) |
| 270.0 | D | T216D277K006CS | 6.5 | 130.0 | 163.0 | 8 | 8 | 0.07 | 2007(1) | 3007(1) |
| 330.0 | D | T216D337K006CS | 7.5 | 150.0 | 188.0 | 8 | 8 | 0.06 | 2008(1) | 3008(1) |
| 10 VOLT RATING AT 85° C | | | | | | | | | | |
| 3.9 | A | T216A395K010CS | 0.3 | 6.0 | 7.5 | 4 | 4 | 1.00 | 2009(1) | 3009(1) |
| 4.7 | A | T216A475K010CS | 0.4 | 7.0 | 8.8 | 4 | 4 | 0.90 | 2010(1) | 3010(1) |
| 27.0 | B | T216B276K010CS | 2.0 | 40.0 | 50.0 | 6 | 6 | 0.25 | 2011(1) | 3011(1) |
| 33.0 | B | T216B336K010CS | 2.5 | 50.0 | 63.0 | 6 | 6 | 0.24 | 2012(1) | 3012(1) |
| 39.0 | B | T216B396K010CS | 2.5 | 50.0 | 63.0 | 6 | 6 | 0.24 | 2013(1) | 3013(1) |
| 82.0 | C | T216C826K010CS | 4.0 | 80.0 | 100.0 | 6 | 6 | 0.12 | 2014(1) | 3014(1) |
| 100.0 | C | T216C107K010CS | 5.0 | 100.0 | 125.0 | 8 | 8 | 0.11 | 2015(1) | 3015(1) |
| 120.0 | C | T216C127K010CS | 6.0 | 120.0 | 150.0 | 8 | 8 | 0.10 | 2016(1) | 3016(1) |
| 180.0 | D | T216D187K010CS | 9.0 | 180.0 | 226.0 | 8 | 8 | 0.08 | 2017(1) | 3017(1) |
| 220.0 | D | T216D227K010CS | 10.0 | 200.0 | 250.0 | 8 | 8 | 0.07 | 2018(1) | 3018(1) |

(1) To complete, insert S for sleeved or U for unsleeved, if "U" ordered also use C-0100.

RATINGS & PART NUMBER REFERENCE T216/(CSS13) (Cont'd)

| CAPACITANCE µF | KEMET T216 SERIES | | | | | | | | MIL-PRF-39003 (CSS13) CAPACITORS | |
|--------------------------------|-------------------|---|----------------|----------------|-----------------|-------------------------|-----------------------|----------------------------|---|----------|
| | CASE SIZE | KEMET EQUIVALENT PART NUMBER FOR CSS13 CAPACITORS | DC LEAKAGE | | | MAX. DISSIPATION FACTOR | | MAX. ESR Ω @ 25°C, 100 kHz | DASH NUMBER REFERENCE FAILURE RATE LEVEL (%/1000 HRS) MIL-PRF-39003/10 GRADED | |
| | | | µA @ +25° MAX. | µA @ +85° MAX. | µA @ +125° MAX. | % @ -55°C +25°C MAX. | % @ -85°C +125°C MAX. | | B (0.1) | C (0.01) |
| 15 VOLT RATING AT 85° C | | | | | | | | | | |
| 2.7 | A | T216A275K015CS | 0.3 | 6.0 | 7.5 | 4 | 4 | 1.20 | 2019(1) | 3019(1) |
| 3.3 | A | T216A335K015CS | 0.4 | 8.0 | 10.0 | 4 | 4 | 1.00 | 2020(1) | 3020(1) |
| 18.0 | B | T216B186K015CS | 2.0 | 35.0 | 44.0 | 6 | 6 | 0.27 | 2021(1) | 3021(1) |
| 22.0 | B | T216B226K015CS | 2.0 | 40.0 | 50.0 | 6 | 6 | 0.26 | 2022(1) | 3022(1) |
| 56.0 | C | T216C566K015CS | 4.0 | 80.0 | 100.0 | 6 | 6 | 0.15 | 2023(1) | 3023(1) |
| 68.0 | C | T216C686K015CS | 5.0 | 100.0 | 125.0 | 6 | 6 | 0.13 | 2024(1) | 3024(1) |
| 120.0 | D | T216D127K015CS | 9.0 | 180.0 | 226.0 | 8 | 8 | 0.09 | 2025(1) | 3025(1) |
| 150.0 | D | T216D157K015CS | 10.0 | 220.0 | 250.0 | 8 | 8 | 0.09 | 2026(1) | 3026(1) |
| 20 VOLT RATING AT 85° C | | | | | | | | | | |
| 1.2 | A | T216A125K020CS | 0.3 | 6.0 | 7.5 | 4 | 4 | 1.40 | 2027(1) | 3027(1) |
| 1.5 | A | T216A155K020CS | 0.3 | 6.0 | 7.5 | 4 | 4 | 1.30 | 2028(1) | 3028(1) |
| 1.8 | A | T216A185K020CS | 0.3 | 6.0 | 7.5 | 4 | 4 | 1.25 | 2029(1) | 3029(1) |
| 2.2 | A | T216A225K020CS | 0.4 | 8.0 | 10.0 | 4 | 4 | 1.20 | 2030(1) | 3030(1) |
| 8.2 | B | T216B825K020CS | 1.0 | 20.0 | 25.0 | 6 | 6 | 0.39 | 2031(1) | 3031(1) |
| 10.0 | B | T216B106K020CS | 1.5 | 30.0 | 38.0 | 6 | 6 | 0.35 | 2032(1) | 3032(1) |
| 12.0 | B | T216B126K020CS | 1.8 | 35.0 | 44.0 | 6 | 6 | 0.32 | 2033(1) | 3033(1) |
| 15.0 | B | T216B156K020CS | 2.0 | 40.0 | 50.0 | 6 | 6 | 0.29 | 2034(1) | 3034(1) |
| 27.0 | C | T216C276K020CS | 2.5 | 50.0 | 63.0 | 6 | 6 | 0.21 | 2035(1) | 3035(1) |
| 33.0 | C | T216C336K020CS | 3.5 | 70.0 | 88.0 | 6 | 6 | 0.19 | 2036(1) | 3036(1) |
| 39.0 | C | T216C396K020CS | 4.0 | 80.0 | 100.0 | 6 | 6 | 0.17 | 2037(1) | 3037(1) |
| 47.0 | C | T216C476K020CS | 4.5 | 90.0 | 113.0 | 6 | 6 | 0.16 | 2038(1) | 3038(1) |
| 56.0 | D | T216D566K020BS | 5.5 | 110.0 | 138.0 | 6 | 6 | 0.13 | 2039(1) | 3039(1) |
| 68.0 | D | T216D686K020BS | 7.0 | 140.0 | 175.0 | 6 | 6 | 0.12 | 2040(1) | 3040(1) |
| 82.0 | D | T216D826K020BS | 8.0 | 160.0 | 200.0 | 6 | 6 | 0.11 | 2041(1) | 3041(1) |
| 100.0 | D | T216D107K020BS | 10.0 | 200.0 | 250.0 | 8 | 8 | 0.10 | 2042(1) | 3042(1) |
| 35 VOLT RATING AT 85° C | | | | | | | | | | |
| 5.6 | B | T216B565K035BS | 1.3 | 25.0 | 32.0 | 4 | 4 | 0.47 | 2043(1) | 3043(1) |
| 6.8 | B | T216B685K035BS | 1.5 | 30.0 | 38.0 | 6 | 6 | 0.43 | 2044(1) | 3044(1) |
| 22.0 | C | T216C226K035BS | 4.0 | 40.0 | 100.0 | 6 | 6 | 0.25 | 2045(1) | 3045(1) |
| 27.0 | D | T216D276K035BS | 4.5 | 90.0 | 113.0 | 6 | 6 | 0.18 | 2046(1) | 3046(1) |
| 33.0 | D | T216D336K035BS | 5.5 | 110.0 | 138.0 | 6 | 6 | 0.17 | 2047(1) | 3047(1) |
| 39.0 | D | T216D396K035BS | 7.0 | 140.0 | 175.0 | 6 | 6 | 0.15 | 2048(1) | 3048(1) |
| 47.0 | D | T216D476K035BS | 8.0 | 160.0 | 200.0 | 6 | 6 | 0.14 | 2049(1) | 3049(1) |
| 50 VOLT RATING AT 85° C | | | | | | | | | | |
| 0.12 | A | T216A124K050CS | 0.3 | 5.0 | 6.3 | 2 | 4 | 6.50 | 2067(1) | 3067(1) |
| 0.15 | A | T216A154K050CS | 0.3 | 5.0 | 6.3 | 2 | 4 | 5.50 | 2068(1) | 3068(1) |
| 0.18 | A | T216A184K050CS | 0.3 | 5.0 | 6.3 | 2 | 4 | 5.00 | 2069(1) | 3069(1) |
| 0.22 | A | T216A224K050CS | 0.3 | 5.0 | 6.3 | 2 | 4 | 4.00 | 2070(1) | 3070(1) |
| 0.27 | A | T216A274K050CS | 0.3 | 5.0 | 6.3 | 2 | 4 | 3.50 | 2071(1) | 3071(1) |
| 0.33 | A | T216A334K050CS | 0.3 | 5.0 | 6.3 | 2 | 4 | 3.30 | 2072(1) | 3072(1) |
| 0.39 | A | T216A394K050CS | 0.3 | 5.0 | 6.3 | 2 | 4 | 3.20 | 2073(1) | 3073(1) |
| 0.47 | A | T216A474K050CS | 0.3 | 5.0 | 6.3 | 2 | 4 | 3.00 | 2074(1) | 3074(1) |
| 0.56 | A | T216A564K050CS | 0.3 | 5.0 | 6.3 | 2 | 4 | 2.50 | 2075(1) | 3075(1) |
| 0.68 | A | T216A684K050CS | 0.3 | 5.0 | 6.3 | 2 | 4 | 1.80 | 2076(1) | 3076(1) |
| 0.82 | A | T216A824K050CS | 0.3 | 5.0 | 6.3 | 2 | 4 | 1.60 | 2077(1) | 3077(1) |
| 1.0 | A | T216A105K050CS | 0.4 | 8.0 | 10.0 | 2 | 4 | 1.40 | 2078(1) | 3078(1) |
| 1.2 | B | T216B125K050CS | 0.4 | 9.0 | 11.0 | 4 | 4 | 1.20 | 2079(1) | 3079(1) |
| 1.5 | B | T216B155K050CS | 0.6 | 12.0 | 15.0 | 4 | 4 | 1.10 | 2080(1) | 3080(1) |
| 1.8 | B | T216B185K050CS | 0.7 | 14.0 | 18.0 | 4 | 4 | 0.92 | 2081(1) | 3081(1) |
| 2.2 | B | T216B225K050CS | 0.8 | 17.0 | 22.0 | 4 | 4 | 0.80 | 2082(1) | 3082(1) |
| 2.7 | B | T216B275K050CS | 1.0 | 20.0 | 25.0 | 4 | 4 | 0.68 | 2083(1) | 3083(1) |
| 3.3 | B | T216B335K050CS | 1.2 | 25.0 | 32.0 | 4 | 4 | 0.62 | 2084(1) | 3084(1) |
| 3.9 | B | T216B395K050CS | 1.5 | 30.0 | 38.0 | 4 | 4 | 0.56 | 2085(1) | 3085(1) |
| 4.7 | B | T216B475K050CS | 1.7 | 35.0 | 44.0 | 4 | 4 | 0.51 | 2086(1) | 3086(1) |
| 5.6 | C | T216C565K050CS | 2.2 | 45.0 | 56.0 | 4 | 4 | 0.44 | 2087(1) | 3087(1) |
| 6.8 | C | T216C685K050CS | 2.2 | 45.0 | 56.0 | 6 | 6 | 0.40 | 2088(1) | 3088(1) |
| 8.2 | C | T216C825K050CS | 2.5 | 50.0 | 63.0 | 6 | 6 | 0.36 | 2089(1) | 3089(1) |
| 10.0 | C | T216C106K050CS | 2.5 | 50.0 | 63.0 | 6 | 6 | 0.33 | 2090(1) | 3090(1) |
| 12.0 | C | T216C126K050BS | 3.0 | 60.0 | 75.0 | 6 | 6 | 0.30 | 2091(1) | 3091(1) |
| 15.0 | C | T216C156K050BS | 4.0 | 80.0 | 100.0 | 6 | 6 | 0.27 | 2092(1) | 3092(1) |
| 18.0 | C | T216C186K050BS | 4.5 | 90.0 | 113.0 | 6 | 6 | 0.25 | 2093(1) | 3093(1) |
| 22.0 | D | T216D226K050BS | 5.5 | 100.0 | 138.0 | 6 | 6 | 0.20 | 2094(1) | 3094(1) |

(1) To complete, insert S for sleeved or U for unsleeved, if "U" ordered also use C-0100.

T216/T256 Series Tantalum
Hermetically Sealed



RATINGS & PART NUMBER REFERENCE T216/(CSS13) (Cont'd)

| CAPACITANCE µF | KEMET T216 SERIES | | | | | | | | MIL-PRF-39003 (CSS13) CAPACITORS | |
|--------------------------------|-------------------|---|-------------------------|----------------|-----------------|-------------------------|-----------------------|----------------------------|----------------------------------|---------|
| | CASE SIZE | KEMET EQUIVALENT PART NUMBER FOR CSS13 CAPACITORS | DC LEAKAGE | | | MAX. DISSIPATION FACTOR | | MAX. ESR Ω @ 25°C, 100 kHz | DASH NUMBER REFERENCE | |
| | | | µA @ +25° MAX. | µA @ +85° MAX. | µA @ +125° MAX. | % @ -55°C +25°C MAX. | % @ -85°C +125°C MAX. | | FAILURE RATE LEVEL (%/1000 HRS) | |
| | | | MIL-PRF-39003/10 GRADED | | | | | | | |
| | | | | | | | | B (0.1) | C (0.01) | |
| 75 VOLT RATING AT 85° C | | | | | | | | | | |
| 0.15 | A | T216A154K075CS | 0.3 | 5.0 | 6.3 | 2 | 4 | 4.4 | 2097(1) | 3097(1) |
| 0.18 | A | T216A184K075CS | 0.3 | 5.0 | 6.3 | 2 | 4 | 4.0 | 2098(1) | 3098(1) |
| 0.22 | A | T216A224K075CS | 0.3 | 5.0 | 6.3 | 2 | 4 | 3.5 | 2099(1) | 3099(1) |
| 0.27 | A | T216A274K075CS | 0.3 | 5.0 | 6.3 | 2 | 4 | 3.1 | 2100(1) | 3100(1) |
| 0.33 | A | T216A334K075CS | 0.3 | 5.0 | 6.3 | 2 | 4 | 2.8 | 2101(1) | 3101(1) |
| 0.39 | A | T216A394K075CS | 0.3 | 5.0 | 6.3 | 2 | 4 | 2.6 | 2102(1) | 3102(1) |
| 0.47 | A | T216A474K075CS | 0.3 | 5.0 | 6.3 | 2 | 4 | 2.4 | 2103(1) | 3103(1) |
| 0.56 | A | T216A564K075CS | 0.3 | 5.0 | 6.3 | 2 | 4 | 2.25 | 2104(1) | 3104(1) |
| 0.68 | A | T216A684K075CS | 0.3 | 5.0 | 6.3 | 2 | 4 | 2.10 | 2105(1) | 3105(1) |
| 0.82 | B | T216B824K075CS | 0.3 | 5.0 | 6.3 | 2 | 4 | 1.47 | 2106(1) | 3106(1) |
| 1.0 | B | T216B105K075CS | 0.4 | 5.0 | 6.3 | 2 | 4 | 1.40 | 2107(1) | 3107(1) |
| 1.2 | B | T216B125K075CS | 0.4 | 5.0 | 6.3 | 4 | 4 | 1.33 | 2108(1) | 3108(1) |
| 1.5 | B | T216B155K075CS | 0.6 | 10.0 | 13.0 | 4 | 4 | 1.06 | 2109(1) | 3109(1) |
| 1.8 | B | T216B185K075CS | 0.7 | 10.0 | 13.0 | 4 | 4 | 0.92 | 2110(1) | 3110(1) |
| 2.2 | B | T216B225K075CS | 0.8 | 15.0 | 19.0 | 4 | 4 | 0.80 | 2111(1) | 3111(1) |
| 2.7 | B | T216B275K075BS | 1.0 | 15.0 | 19.0 | 4 | 4 | 0.68 | 2112(1) | 3112(1) |
| 3.3 | B | T216B335K075BS | 1.2 | 20.0 | 25.0 | 4 | 4 | 0.62 | 2113(1) | 3113(1) |
| 3.9 | B | T216B395K075BS | 1.5 | 20.0 | 25.0 | 4 | 4 | 0.56 | 2114(1) | 3114(1) |
| 4.7 | C | T216C475K075BS | 3.0 | 60.0 | 75.0 | 4 | 4 | 0.47 | 2115(1) | 3115(1) |
| 5.6 | C | T216C565K075BS | 3.0 | 60.0 | 75.0 | 4 | 4 | 0.44 | 2116(1) | 3116(1) |
| 6.8 | C | T216C685K075BS | 5.0 | 100.0 | 125.0 | 6 | 6 | 0.44 | 2117(1) | 3117(1) |
| 8.2 | C | T216C825K075BS | 5.0 | 100.0 | 125.0 | 6 | 6 | 0.36 | 2118(1) | 3118(1) |
| 10.0 | C | T216C106K075BS | 5.0 | 100.0 | 125.0 | 6 | 6 | 0.33 | 2119(1) | 3119(1) |
| 12.0 | D | T216D126K075BS | 5.0 | 100.0 | 125.0 | 6 | 6 | 0.26 | 2120(1) | 3120(1) |
| 15.0 | D | T216D156K075BS | 7.0 | 140.0 | 175.0 | 6 | 6 | 0.23 | 2121(1) | 3121(1) |

**T256/(CSS33)
RATINGS AND PART NUMBER REFERENCE**

| CAPACITANCE µF | KEMET T256 SERIES | | | | | | | | MIL-PRF-39003 (CSS33) CAPACITORS | |
|--------------------------------|-------------------|---|-------------------------|----------------|-----------------|-------------------------|-----------------------|----------------------------|----------------------------------|---------|
| | CASE SIZE | KEMET EQUIVALENT PART NUMBER FOR CSS33 CAPACITORS | DC LEAKAGE | | | MAX. DISSIPATION FACTOR | | MAX. ESR Ω @ 25°C, 100 kHz | DASH NUMBER REFERENCE | |
| | | | µA @ +25° MAX. | µA @ +85° MAX. | µA @ +125° MAX. | % @ -55°C +25°C MAX. | % @ -85°C +125°C MAX. | | FAILURE RATE LEVEL (%/1000 HRS) | |
| | | | MIL-PRF-39003/10 GRADED | | | | | | | |
| | | | | | | | | B (0.1) | C (0.01) | |
| 6 VOLT RATING AT 85° C | | | | | | | | | | |
| 10.0 | A | T256A106K006CS | 0.5 | 2.0 | 2.0 | 6 | 6 | 0.70 | 2500(1) | 3500(1) |
| 12.0 | A | T256A126K006CS | 0.5 | 2.0 | 2.0 | 6 | 6 | 0.60 | 2501(1) | 3501(1) |
| 100.0 | B | T256B107K006CS | 1.0 | 3.0 | 3.0 | 8 | 8 | 0.20 | 2502(1) | 3502(1) |
| 330.0 | C | T256B107K006CS | 2.0 | 8.0 | 8.0 | 8 | 8 | 0.065 | 2503(1) | 3503(1) |
| 390.0 | C | T256C337K006BS | 2.0 | 8.0 | 8.0 | 10 | 10 | 0.065 | 2504(1) | 3504(1) |
| 470.0 | C | T256C397K006BS | 2.0 | 8.0 | 8.0 | 10 | 10 | 0.060 | 2505(1) | 3505(1) |
| 680.0 | D | T256D687K006CS | 5.0 | 10.0 | 10.0 | 10 | 10 | 0.060 | 2506(1) | 3506(1) |
| 820.0 | D | T256D827K006CS | 5.0 | 10.0 | 10.0 | 10 | 10 | 0.055 | 2507(1) | 3507(1) |
| 1000.0 | D | T256D108K006CS | 5.0 | 10.0 | 10.0 | 10 | 10 | 0.050 | 2508(1) | 3508(1) |
| 10 VOLT RATING AT 85° C | | | | | | | | | | |
| 6.8 | A | T256A685K010CS | 0.5 | 2.0 | 2.0 | 6 | 6 | 0.80 | 2509(1) | 3509(1) |
| 8.2 | A | T256A825K010CS | 0.5 | 2.0 | 2.0 | 6 | 6 | 0.70 | 2510(1) | 3510(1) |
| 47.0 | B | T256B476K010CS | 1.0 | 2.0 | 2.0 | 6 | 6 | 0.22 | 2511(1) | 3511(1) |
| 56.0 | B | T256B566K010CS | 1.0 | 4.0 | 4.0 | 6 | 6 | 0.20 | 2512(1) | 3512(1) |
| 68.0 | B | T256B686K010CS | 1.0 | 4.0 | 4.0 | 6 | 6 | 0.18 | 2513(1) | 3513(1) |
| 82.0 | B | T256B826K010CS | 1.0 | 4.0 | 4.0 | 6 | 6 | 0.15 | 2514(1) | 3514(1) |
| 220.0 | C | T256C227K010BS | 1.0 | 7.0 | 7.0 | 2 | 2 | 0.090 | 2515(1) | 3515(1) |
| 270.0 | C | T256C277K010BS | 2.0 | 10.0 | 10.0 | 2 | 2 | 0.075 | 2516(1) | 3516(1) |
| 390.0 | D | T256D397K010CS | 2.0 | 16.0 | 16.0 | 10 | 10 | 0.070 | 2517(1) | 3517(1) |
| 470.0 | D | T256D477K010CS | 4.0 | 16.0 | 16.0 | 10 | 10 | 0.065 | 2518(1) | 3518(1) |
| 560.0 | D | T256D567K010CS | 4.0 | 16.0 | 16.0 | 10 | 10 | 0.060 | 2519(1) | 3519(1) |

(1) To complete, insert S for sleeved or U for unsleeved, if "U" ordered also use C-0100.

RATINGS AND PART NUMBER REFERENCE T256/(CSS33) (Cont'd)

| CAP μF | CASE SIZE | KEMET EQUIVALENT PART NUMBER FOR CSS33 CAPACITORS | KEMET T256 SERIES | | | | | | MIL-PRF-39003 (CSS33) CAPACITORS | | |
|--------------------------------|--------------|---|----------------------|----------------------|-----------------------|-------------------------|--------------------------|------------|-------------------------------------|---|--|
| | | | DC LEAKAGE | | | MAX. DISSIPATION FACTOR | | | MAX. ESR Ω @ 25°C, 100 kHz | DASH NUMBER REFERENCE FAILURE RATE LEVEL (%/1000 HRS) MIL-PRF-39003/10 GRADED | |
| | | | μA @ +25° MAX. | μA @ +85° MAX. | μA @ +125° MAX. | % @ -55°C +25°C MAX. | % @ -85°C +125°C MAX. | B (0.1) | | C (0.01) | |
| | | | | | | | | | | | |
| 15 VOLT RATING AT 85° C | | | | | | | | | | | |
| 4.7 | A | T256A475K015CS | 0.5 | 2.0 | 2.0 | 4 | 4 | 0.90 | 2520(1) | 3520(1) | |
| 5.6 | A | T256A565K015CS | 0.5 | 2.0 | 2.0 | 4 | 4 | 0.80 | 2521(1) | 3521(1) | |
| 33.0 | B | T256B336K015CS | 1.0 | 2.0 | 2.0 | 6 | 6 | 0.24 | 2522(1) | 3522(1) | |
| 39.0 | B | T256B396K015CS | 1.0 | 2.0 | 2.0 | 6 | 6 | 0.22 | 2523(1) | 3523(1) | |
| 150.0 | C | T256C157K015BS | 1.0 | 7.0 | 7.0 | 8 | 8 | 0.10 | 2524(1) | 3524(1) | |
| 180.0 | C | T256C187K015BS | 2.0 | 10.0 | 10.0 | 8 | 8 | 0.09 | 2525(1) | 3525(1) | |
| 220.0 | D | T256D227K015BS | 2.0 | 10.0 | 10.0 | 8 | 8 | 0.07 | 2526(1) | 3526(1) | |
| 270.0 | D | T256D277K015BS | 2.0 | 16.0 | 16.0 | 8 | 8 | 0.065 | 2527(1) | 3527(1) | |
| 330.0 | D | T256D337K015BS | 2.0 | 16.0 | 16.0 | 8 | 8 | 0.060 | 2528(1) | 3528(1) | |
| 20 VOLT RATING AT 85° C | | | | | | | | | | | |
| 2.7 | A | T256A275K020CS | 0.5 | 2.0 | 2.0 | 4 | 4 | 1.15 | 2529(1) | 3529(1) | |
| 3.3 | A | T256A335K020CS | 0.5 | 2.0 | 2.0 | 4 | 4 | 0.95 | 2530(1) | 3530(1) | |
| 3.9 | A | T256A395K020CS | 0.5 | 2.0 | 2.0 | 4 | 4 | 0.90 | 2531(1) | 3531(1) | |
| 18.0 | B | T256B186K020CS | 1.0 | 2.0 | 2.0 | 6 | 6 | 0.27 | 2532(1) | 3532(1) | |
| 22.0 | B | T256B226K020BS | 1.0 | 2.0 | 2.0 | 6 | 6 | 0.26 | 2533(1) | 3533(1) | |
| 27.0 | B | T256B276K020BS | 1.0 | 2.0 | 2.0 | 6 | 6 | 0.24 | 2534(1) | 3534(1) | |
| 56.0 | C | T256C566K020CS | 1.0 | 1.0 | 10.0 | 6 | 6 | 0.15 | 2535(1) | 3535(1) | |
| 68.0 | C | T256C686K020CS | 1.0 | 10.0 | 10.0 | 6 | 6 | 0.14 | 2536(1) | 3536(1) | |
| 82.0 | C | T256C826K020BS | 1.0 | 10.0 | 10.0 | 6 | 6 | 0.12 | 2537(1) | 3537(1) | |
| 100.0 | C | T256C107K020BS | 1.0 | 10.0 | 10.0 | 6 | 6 | 0.10 | 2538(1) | 3538(1) | |
| 120.0 | C | T256C127K020BS | 1.0 | 10.0 | 10.0 | 6 | 6 | 0.09 | 2539(1) | 3539(1) | |
| 150.0 | D | T256D157K020BS | 2.0 | 10.0 | 10.0 | 8 | 8 | 0.08 | 2540(1) | 3540(1) | |
| 180.0 | D | T256D187K020BS | 2.0 | 10.0 | 10.0 | 8 | 8 | 0.07 | 2541(1) | 3541(1) | |
| 35 VOLT RATING AT 85° C | | | | | | | | | | | |
| 1.8 | A | T256A185K035BS | 0.5 | 2.0 | 2.0 | 4 | 4 | 0.20 | 2542(1) | 3542(1) | |
| 8.2 | B | T256B825K035BS | 1.0 | 2.0 | 2.0 | 6 | 6 | 0.40 | 2543(1) | 3543(1) | |
| 10.0 | B | T256B106K035BS | 1.0 | 2.0 | 2.0 | 6 | 6 | 0.35 | 2544(1) | 3544(1) | |
| 33.0 | C | T256C336K035BS | 1.0 | 5.0 | 5.0 | 6 | 6 | 0.19 | 2545(1) | 3545(1) | |
| 39.0 | C | T256C396K035BS | 1.0 | 5.0 | 5.0 | 6 | 6 | 0.17 | 2546(1) | 3546(1) | |
| 47.0 | C | T256C476K035BS | 1.0 | 5.0 | 5.0 | 6 | 6 | 0.15 | 2547(1) | 3547(1) | |
| 56.0 | D | T256D566K035BS | 2.0 | 10.0 | 10.0 | 6 | 6 | 0.13 | 2548(1) | 3548(1) | |
| 68.0 | D | T256D686K035BS | 2.0 | 10.0 | 10.0 | 6 | 6 | 0.12 | 2549(1) | 3549(1) | |
| 50 VOLT RATING AT 85° C | | | | | | | | | | | |
| 1.2 | A | T256A125K050BS | 0.5 | 2.0 | 2.0 | 4 | 4 | 1.30 | 2550(1) | 3550(1) | |
| 1.5 | A | T256A155KL050BS | 0.5 | 2.0 | 2.0 | 4 | 4 | 1.20 | 2551(1) | 3551(1) | |
| 5.6 | B | T256B565K050BS | 1.0 | 2.0 | 2.0 | 4 | 4 | 0.47 | 2552(1) | 3552(1) | |
| 6.8 | B | T256B685K050BS | 1.0 | 2.0 | 2.0 | 6 | 6 | 0.43 | 2553(1) | 3553(1) | |
| 22.0 | C | T256C226K050BS | 1.0 | 5.0 | 5.0 | 6 | 6 | 0.22 | 2554(1) | 3554(1) | |
| 27.0 | C | T256C276K050BS | 1.0 | 5.0 | 5.0 | 6 | 6 | 0.20 | 2555(1) | 3555(1) | |
| 33.0 | D | T256D336K050BS | 1.0 | 9.0 | 9.0 | 6 | 6 | 0.18 | 2556(1) | 3556(1) | |
| 39.0 | D | T256D396K050BS | 1.0 | 9.0 | 9.0 | 6 | 6 | 0.16 | 2557(1) | 3557(1) | |

T216/T256 Series Tantalum
Hermetically Sealed

(1) To complete, insert S for sleeved or U for unsleeved, if "U" ordered also use C-0100.