

| REVISIONS |  |                 |                    |
|-----------|--|-----------------|--------------------|
| LTR       | DESCRIPTION  | DATE            | APPROVED           |
| A         | 5 year review  | 26 May 2011     | Michael A. Radecki |
| B         | Added PINs, upgraded testing, and updated vendor series. | 31 October 2013 | Michael A. Radecki |
|           |  |                 |                    |

CURRENT DESIGN ACTIVITY CAGE CODE 037Z3  
HAS CHANGED NAMES TO:  
DLA LAND AND MARITIME  
COLUMBUS, OHIO 43218-3990

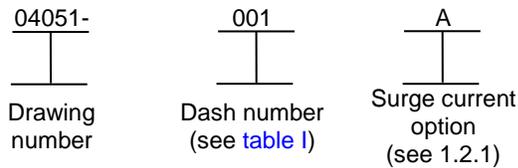
Prepared in accordance with [ASME Y14.100](#)

|   |  |                                 |   |   |   |   |                    |   |                             |  |  |  |  |  |  |  |  |  |
|---|--|---------------------------------|---|---|---|---|--------------------|---|-----------------------------|--|--|--|--|--|--|--|--|--|
| <b>REV STATUS OF PAGES</b>                      | <b>REV</b>                               | B                               | B | B | B | B | B                  | B   | B                           |  |  |  |  |  |  |  |  |  |
|   | <b>PAGES</b>                             | 1                               | 2 | 3 | 4 | 5 | 6                  | 7   | 8                           |  |  |  |  |  |  |  |  |  |
| <b>PMIC N/A</b>                                 | <b>PREPARED BY</b><br>Michael A. Radecki |                                 |   |   |   |   |                    | <b>DESIGN ACTIVITY</b><br><b>DEFENSE SUPPLY CENTER, COLUMBUS</b><br><b>COLUMBUS, OH</b> |                             |  |  |  |  |  |  |  |  |  |
| Original date of drawing<br><br>24 January 2006 | <b>CHECKED BY</b><br>Patrick G. Kyne     |                                 |   |   |   |   |                    | <b>TITLE</b><br><br>CAPACITOR, FIXED, POLYMER TANTALUM CHIP                             |                             |  |  |  |  |  |  |  |  |  |
|   | <b>APPROVED BY</b><br>Michael A. Radecki |                                 |   |   |   |   |                    |   |                             |  |  |  |  |  |  |  |  |  |
|   | <b>SIZE</b><br>A                         | <b>CODE IDENT. NO.</b><br>037Z3 |   |   |   |   |                    |   | <b>DWG NO.</b><br><br>04051 |  |  |  |  |  |  |  |  |  |
| <b>REV</b> B                                    |  |                                 |   |   |   |   | <b>PAGE</b> 1 OF 8 |   |                             |  |  |  |  |  |  |  |  |  |

1. SCOPE

1.1 Scope. This drawing describes the complete requirements for low ESR polymer tantalum chip capacitors.

1.2 Part or Identifying Number (PIN). The complete PIN is as follows:



1.2.1 Surge current option. The standard and optional surge current tests are described below:

| Option letter       | Temperatures                     | Sequence             |                     | Number of cycles |
|---------------------|----------------------------------|----------------------|---------------------|------------------|
|                     |                                  | Before voltage aging | After voltage aging |                  |
| Blank <sup>1/</sup> | +25°C ± 5°C                      | X                    |                     | 4                |
| A                   | +25°C ± 5°C                      |                      | X                   | 10               |
| B                   | -55°C -5°C, +0°C and +85°C ± 5°C |                      | X                   | 10               |

<sup>1/</sup> The standard surge current test is indicated by leaving the surge current option letter blank.

2. APPLICABLE DOCUMENTS

2.1 General. The documents listed in this section are specified in sections 3, 4, and 5 of this specification. This section does not include documents cited in other sections of this specification or recommended for additional information or as examples. While every effort has been made to ensure the completeness of this list, document users are cautioned that they must meet all specified requirements of documents in sections 3, 4, and 5 of this specification, whether or not they are listed.

2.2 Government documents.

2.2.1 Specifications, standards, and handbooks. The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those cited in the solicitation or contract.

DEPARTMENT OF DEFENSE SPECIFICATIONS

[MIL-PRF-55365](#) - Capacitor, Fixed, Electrolytic (Tantalum), Chip, Established Reliability and Nonestablished Reliability, General Specification for

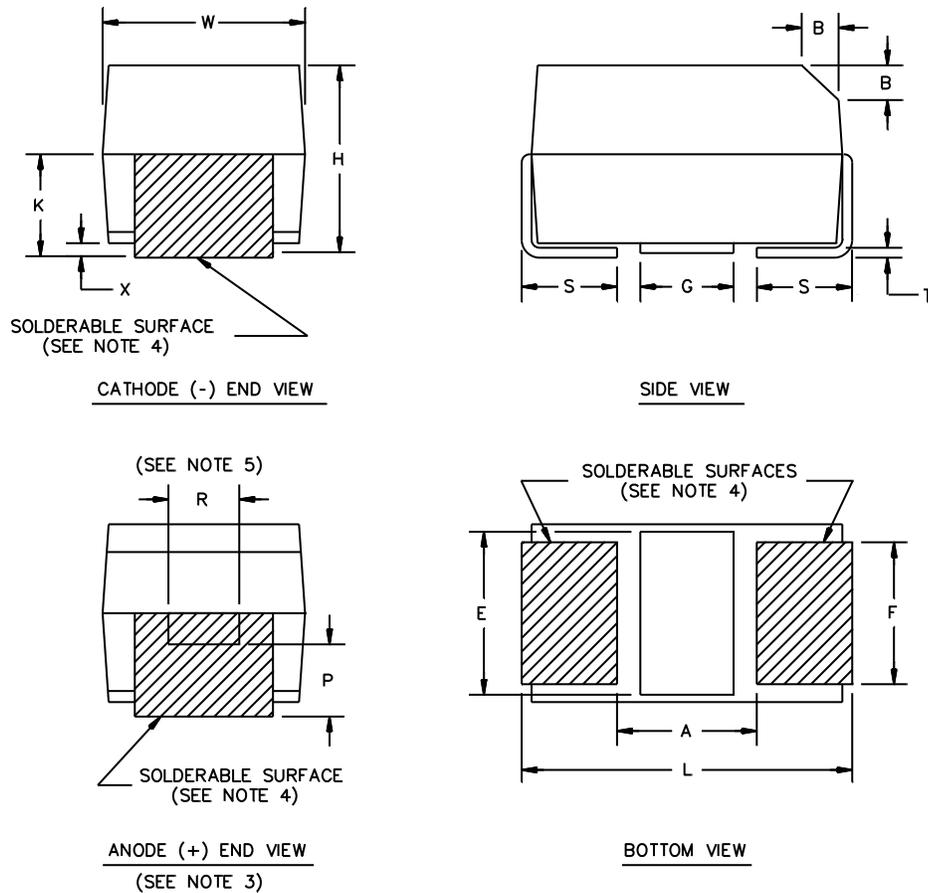
DEPARTMENT OF DEFENSE STANDARDS

[MIL-STD-202](#) - Test Methods for Electronic and Electrical Component Parts  
[MIL-STD-1285](#) - Marking of Electrical and Electronic Parts

(Copies of these documents are available online at <http://quicksearch.dla.mil/> or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.)

2.3 Order of precedence. Unless otherwise noted herein or in the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

|  |          |                |              |
|--|----------|----------------|--------------|
| <b>DEFENSE SUPPLY CENTER, COLUMBUS</b> | SIZE     | CODE IDENT NO. | DWG NO.      |
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| Case size | L         | W         | H         | K (Min) | F ± 0.1 | S ± 0.3 | X (Ref)     | T (Ref) | A (Min) | G (Ref) | E (Ref) |
|-----------|-----------|-----------|-----------|---------|---------|---------|-------------|---------|---------|---------|---------|
| B         | 3.5 ± 0.2 | 2.8 ± 0.2 | 1.9 ± 0.1 | 0.9     | 2.2     | 0.8     | 0.10 ± 0.10 | 0.13    | 2.1     | 1.8     | 2.2     |
| D         | 7.3 ± 0.3 | 4.3 ± 0.3 | 2.8 ± 0.3 | 1.3     | 2.4     | 1.3     | 0.10 ± 0.10 | 0.13    | 3.8     | 3.5     | 3.5     |

| mm   | inches | mm  | inches | mm  | inches |
|------|--------|-----|--------|-----|--------|
| 0.05 | .002   | 1.1 | .043   | 2.4 | .094   |
| 0.1  | .004   | 1.2 | .047   | 2.8 | .110   |
| 0.13 | .005   | 1.3 | .051   | 3.5 | .138   |
| 0.2  | .008   | 1.8 | .071   | 3.8 | .150   |
| 0.3  | .012   | 1.9 | .075   | 4.3 | .169   |
| 0.8  | .031   | 2.1 | .083   | 7.3 | .287   |
| 0.9  | .035   | 2.2 | .087   |     |        |

**NOTES:**

1. Dimensions are in millimeters.
2. Inch equivalents are given for information only.
3. The anode (+) terminal shall be indicated by the bevel on the anode end and/or the polarity stripe.
4. Solderable surfaces are only those surfaces designated as such. Termination edges are not considered solderable.
5. Notch (R) at option of the manufacturer.
6. B and P shown in figure for reference only.

FIGURE 1. Dimensions and configuration.

|   |                   |                                 |                          |
|---|-------------------|---------------------------------|--------------------------|
| <b>DEFENSE SUPPLY CENTER, COLUMBUS<br/>COLUMBUS, OHIO</b> | <b>SIZE<br/>A</b> | <b>CODE IDENT NO.<br/>037Z3</b> | <b>DWG NO.<br/>04051</b> |
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### 3. REQUIREMENTS

3.1 Item requirements. The individual requirements shall be in accordance with [MIL-PRF-55365](#), and as specified herein.

3.2 Interface and physical dimensions. The interface and physical dimensions shall be as specified herein (see [figure 1](#)).

3.2.1 Terminations. Capacitors shall have 100 micro-inch minimum solder plated terminations (see [figure 1](#)). The solder plated terminations shall be solderable when tested in accordance with [MIL-STD-202, method 208](#). Tin plating is prohibited as a final finish or as an undercoat. Tin-lead (Sn-Pb) finishes are acceptable provided that the minimum lead content is three percent.

3.2.2 Operating temperature range. The capacitors are rated for their given voltages from -55°C to +105°C. They are de-rated to 0.67 of their given voltages at +125°C. See [table I](#).

3.3 Electrical characteristics.

3.3.1 Capacitance. See [table I](#). Measured in accordance with [method 305 of MIL-STD-202](#). Maximum dc bias shall be 2.2 volts for all ac measurements. The frequency of the ac voltage shall be  $120 \pm 5$  Hz and the magnitude shall be limited to 1.0 volt rms.

3.3.2 Capacitance tolerance.  $\pm 20$  percent.

3.3.3 Rated voltage. The rated voltage shall be in accordance with [table I](#). Above +105°C, voltage derating for temperature is required. Derate linearly from rated voltage at +105°C to 0.67 x rated voltage at +125°C.

3.4 Surge current. Surge current shall be performed on a 100 percent basis before or after voltage aging, as applicable (see [1.2.1](#)). The following details shall apply:

- a. Temperature: See [1.2.1](#).
- b. Number of cycles: See [1.2.1](#).
- c. An individual test circuit is required for each capacitor under test.
- d. Applied voltage: Rated DC voltage  $\pm 2$  percent from a power source having a minimum energy storage bank of 20 times the capacitor under test across the output terminals.
- e. Charge cycle: 4 seconds maximum.
- f. Discharge cycle: 4 seconds maximum to a voltage below 1 percent of rated voltage.
- g. The total DC resistance (excluding the capacitor) including the wiring, fixturing, and output impedance of the regulated power supply to each test position during the charging cycle shall be a maximum of 1.0 ohm.
- h. The minimum peak charge/discharge current value shall be  $V_r / (1.0 + ESR_{CAP})$  where  $ESR_{CAP}$  is:
  - (1) At At +25 °C and +85 °C,  $ESR_{CAP}$  = specified ESR (see [table I](#)).
  - (2) At -55 °C,  $ESR_{CAP}$  = 2 times specified ESR (see [table I](#)).
- i. Capacitor failure is specified as any capacitor that draws 1 ampere after the appropriate charge time.
- j. On completion of the test, the capacitors shall meet the following requirements:
  - (1) DC leakage: See [table I](#).
  - (2) Capacitance: Shall be within the tolerance specified (see [3.3.2](#)).
  - (3) Dissipation factor: See [table I](#).
  - (4) ESR: See [table I](#).

|   |                         |                                       |                                |
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3.5. Stability at low and high temperatures. Stability at low and high temperatures shall be in accordance with [MIL-PRF-55365](#). The following details and exceptions shall apply:

- a. Capacitance (+85°C): Shall not change more than  $\pm 30$  percent from the step 1 measured value for voltage ratings of 16V and above.
- b. Capacitance (+125°C): Shall not change more than  $\pm 40$  percent from the step 1 measured value for voltage ratings of 16V and above.
- c. DC leakage (+85°C and +125°C): Shall not exceed 10 times the initial limit (see [table I](#)).
- d. Dissipation factor:
  - (1) At +85°C: Shall not exceed 1.2 times the initial limit (see [table I](#)).
  - (2) At +125°C: Shall not exceed 1.5 times the initial limit (see [table I](#)).

3.6 Additional tests. The following additional tests are available as optional tests and must be included in the ordering data (see [6.2c](#)). Any of the tests may be requested to be performed at the option of the user and shall be negotiable with the manufacturer. Unless otherwise noted, all test methods shall be per [MIL-PRF-55365](#) and the limits shall be per [table I](#) herein.

- a. Vibration, high frequency. Vibration, high frequency shall be in accordance with [MIL-PRF-55365](#).
- b. Surge Voltage. Surge voltage shall be in accordance with [MIL-PRF-55365](#). The following details and exceptions shall apply:
  - (1) Applied voltage: 1.32 x rated voltage.
  - (2) Capacitance: Shall not change more than +5, -20 percent from the initial measured value.
- c. Resistance to soldering heat. Resistance to soldering heat shall be in accordance with [MIL-PRF-55365](#) except capacitance shall not change more than  $\pm 10$  percent from the initial measured value.
- d. Life. Life shall be in accordance with [MIL-PRF-55365](#). The following details and exceptions shall apply:
  - (1) Operating conditions: A minimum of DC rated voltage at +85°C or a minimum of derated voltage at +125°C for 2000 hours. The test voltage shall be maintained during the cool down from elevated test temperature to +25°C. After cool down, the capacitors shall be discharged for a minimum of 5 minutes. DC leakage measurements are allowed at this time.
  - (2) Measurements during exposure: Not applicable.
  - (3) Measurements after exposure:
    - (a) DC Leakage: Shall not exceed 125 percent of the initial limit (see [table I](#)) for life at +125°C.
    - (b) Capacitance: Shall not change more than +10, -20 percent from the initial measured value.
    - (c) Dissipation factor: In accordance with [MIL-PRF-55365](#).

3.7 Recycled, recovered, or environmentally preferable materials. Recycled, recovered, or environmentally preferable materials should be used to the maximum extent possible provided that the material meets or exceeds the operational and maintenance requirements, and promotes economically advantageous life cycle costs.

3.8 Certificate of compliance. A certificate of compliance shall be required from manufacturers requesting to be an approved source of supply.

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3.9 Lead frame material.

- a. Base metal: The alloy used may contain a maximum of 17 percent Zinc.
- b. Plating: The use of pure tin, as an underplate or final finish is prohibited both internally and externally. Tin content of capacitor components and solder shall not exceed 97 percent, by mass. Tin shall be alloyed with a minimum of 3 percent lead, by mass (see 6.3).

3.10 Marking. Marking shall be in accordance with MIL-PRF-55365/8, except the "JAN" or "J" brand and the failure rate level symbol do not apply and shall not be marked on the capacitor or any packaging. At the option of the manufacturer, the "J" may be replaced with a trademark or other manufacturer's identification.

3.11 Workmanship. Capacitors shall be uniform in quality and free from defects that will affect life, serviceability, or appearance.

3.12 Manufacturer Eligibility. To be eligible for listing as a source of supply, a manufacturer shall be listed on the MIL-PRF-55365 Qualified Products List for at least one style or perform the qualification inspection for one MIL-PRF-55365 style.

TABLE I. Electrical characteristics.

| DSCC drawing<br>PIN<br>04051- 1/             | Capacitance<br>μF | Case<br>size | DC leakage<br>μA @ +25°C<br>(max.) | DF% @ +25°C<br>120 Hz<br>(max.) | ESR mΩ @<br>+25°C, 100 kHz<br>(max.) | Ripple current<br>A rms,<br>100 kHz Max |        |
|--|-------------------|--------------|------------------------------------|---------------------------------|--------------------------------------|---|--------|
|  |                   |              |                                    |                                 |                                      | -55°C<br>to<br>+105°C                   | +125°C |
| <b>2.5 Vdc at +105°C (1.7 Vdc at +125°C)</b> |                   |              |                                    |                                 |                                      |   |        |
| 002 -  | 330               | D            | 83                                 | 10                              | 25                                   | 2.4                                     | 0.8    |
| 003 -  | 470               | D            | 118                                | 10                              | 25                                   | 2.4                                     | 0.8    |
| 004 -  | 680               | D            | 170                                | 10                              | 25                                   | 2.4                                     | 0.8    |
| <b>3 Vdc at +105°C (2 Vdc at +125°C)</b>     |                   |              |                                    |                                 |                                      |   |        |
| 005 -  | 100               | B            | 30                                 | 8                               | 80                                   | 1.0                                     | 0.3    |
| 006 -  | 150               | B            | 45                                 | 8                               | 80                                   | 1.0                                     | 0.3    |
| 007 -  | 330               | D            | 99                                 | 10                              | 25                                   | 2.4                                     | 0.8    |
| 008 -  | 470               | D            | 141                                | 10                              | 25                                   | 2.4                                     | 0.8    |
| 009 -  | 680               | D            | 204                                | 10                              | 25                                   | 2.4                                     | 0.8    |
| <b>4 Vdc at +105°C (2.7 Vdc at +125°C)</b>   |                   |              |                                    |                                 |                                      |   |        |
| 011 -  | 68                | B            | 28                                 | 8                               | 80                                   | 1.0                                     | 0.3    |
| 012 -  | 100               | B            | 40                                 | 8                               | 80                                   | 1.0                                     | 0.3    |
| 013 -  | 220               | D            | 88                                 | 10                              | 25                                   | 2.4                                     | 0.8    |
| 014 -  | 330               | D            | 132                                | 10                              | 25                                   | 2.4                                     | 0.8    |
| 015 -  | 470               | D            | 188                                | 10                              | 25                                   | 2.4                                     | 0.8    |
| 016 -  | 470               | D            | 188                                | 10                              | 40                                   | 1.9                                     | 0.6    |
| <b>6.3 Vdc at +105°C (4.2 Vdc at +125°C)</b> |                   |              |                                    |                                 |                                      |   |        |
| 017 -  | 33                | B            | 21                                 | 8                               | 80                                   | 1.0                                     | 0.3    |
| 019 -  | 47                | B            | 30                                 | 8                               | 80                                   | 1.0                                     | 0.3    |
| 020 -  | 68                | B            | 43                                 | 8                               | 80                                   | 1.0                                     | 0.3    |
| 021 -  | 150               | D            | 95                                 | 10                              | 25                                   | 2.4                                     | 0.8    |
| 022 -  | 220               | D            | 139                                | 10                              | 25                                   | 2.4                                     | 0.8    |
| 023 -  | 330               | D            | 208                                | 10                              | 25                                   | 2.4                                     | 0.8    |
| 024 -  | 330               | D            | 208                                | 10                              | 40                                   | 1.9                                     | 0.8    |
| <b>10 Vdc at +105°C (6.6 Vdc at +125°C)</b>  |                   |              |                                    |                                 |                                      |   |        |
| 025 -  | 22                | B            | 22                                 | 8                               | 80                                   | 1.0                                     | 0.3    |
| 027 -  | 33                | B            | 33                                 | 8                               | 80                                   | 1.0                                     | 0.3    |
| 028 -  | 100               | D            | 100                                | 10                              | 25                                   | 2.4                                     | 0.8    |
| 029 -  | 100               | D            | 100                                | 10                              | 55                                   | 1.7                                     | 0.5    |

See footnote at end of table.

|   |                   |                                 |                          |
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TABLE I. Electrical characteristics – Continued.

| DSCC drawing<br>PIN<br>04051-                           | Capacitance<br>$\mu\text{F}$ | Case<br>size | DC leakage<br>$\mu\text{A}$ @ +25°C<br>(max.) | DF% @ +25°C<br>120 Hz<br>(max.) | ESR $\text{m}\Omega$ @<br>+25°C, 100 kHz<br>(max.) | Ripple current<br>A rms,<br>100 kHz Max |        |
|---|------------------------------|--------------|---|---------------------------------|--|---|--------|
|   |                              |              |   |                                 |  | -55°C<br>to<br>+105°C                   | +125°C |
| <b>10 Vdc at +105°C (6.6 Vdc at +125°C) - Continued</b> |                              |              |   |                                 |  |   |        |
| 030 -   | 150                          | D            | 150   | 10                              | 25   | 2.4                                     | 0.8    |
| 031 -   | 150                          | D            | 150   | 10                              | 55   | 1.7                                     | 0.5    |
| 032 -   | 220                          | D            | 220   | 10                              | 25   | 2.4                                     | 0.8    |
| <b>16 Vdc at +105°C (10.6 Vdc at +125°C)</b>            |                              |              |   |                                 |  |   |        |
| 033 -   | 47                           | D            | 76  | 10                              | 35   | 2.1                                     | 0.7    |
| 034 -   | 47                           | D            | 76  | 10                              | 65   | 1.5                                     | 0.5    |
| 035 -   | 68                           | D            | 109   | 10                              | 75   | 1.4                                     | 0.5    |
| 036 -   | 100                          | D            | 160   | 10                              | 50   | 1.7                                     | 0.6    |
| <b>20 Vdc at +105°C (13.4 Vdc at +125°C)</b>            |                              |              |   |                                 |  |   |        |
| 037 -   | 22                           | D            | 44  | 10                              | 75   | 1.4                                     | 0.5    |
| 038 -   | 33                           | D            | 66  | 10                              | 75   | 1.4                                     | 0.5    |
| 039 -   | 47                           | D            | 94  | 10                              | 75   | 1.4                                     | 0.5    |
| <b>25 Vdc at +105°C (16.7 Vdc at +125°C)</b>            |                              |              |   |                                 |  |   |        |
| 040 -   | 15                           | D            | 38  | 10                              | 75   | 1.4                                     | 0.5    |
| 041 -   | 15                           | D            | 38  | 10                              | 100  | 1.2                                     | 0.4    |
| 042 -   | 22                           | D            | 55  | 10                              | 75   | 1.4                                     | 0.5    |
| 043 -   | 33                           | D            | 83  | 10                              | 75   | 1.4                                     | 0.5    |
| <b>35 Vdc at +105°C (23.4 Vdc at +125°C)</b>            |                              |              |   |                                 |  |   |        |
| 044 -   | 15                           | D            | 53  | 10                              | 75   | 1.4                                     | 0.5    |
| 045 -   | 15                           | D            | 53  | 10                              | 100  | 1.2                                     | 0.4    |
| <b>50 Vdc at +105°C (33.5 Vdc at +125°C)</b>            |                              |              |   |                                 |  |   |        |
| 046 -   | 10                           | D            | 50  | 10                              | 100  | 1.2                                     | 0.4    |
| 047 -   | 10                           | D            | 50  | 10                              | 125  | 1.1                                     | 0.4    |
| <b>63 Vdc at +105°C (42.2 Vdc at +125°C)</b>            |                              |              |   |                                 |  |   |        |
| 048 -   | 4.7                          | D            | 29.6  | 10                              | 100  | 1.2                                     | 0.4    |
| 049 -   | 4.7                          | D            | 29.6  | 10                              | 120  | 1.1                                     | 0.4    |

1/ The complete PIN number shall include a symbol to indicate surge current testing option or be left blank for the standard surge current testing (see 1.2).

#### 4. VERIFICATION

4.1 Sampling and inspection. Qualification inspection is only required as specified (see 3.12).

4.2 Conformance inspection.

4.2.1 Inspection of product for delivery. Inspection of product for delivery shall consist of the group A inspection (Weibull distribution) for T level product per MIL-PRF-55365. The following details and exceptions shall apply:

- a. Surge current testing shall be as specified herein (see 3.4).
- b. Voltage aging per MIL-PRF-55365 shall be performed in place of Weibull grading. Minimum conditions shall be +85°C, rated voltage, and 10 hour duration. Those capacitors outside of +3 standard deviations for DC leakage and ESR shall be removed and not delivered on the order.
- c. DPA in subgroup 1a is not applicable.
- d. Subgroup 2 is not applicable.

|   |                         |                                       |                                |
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5. PACKAGING

5.1 Packaging. For acquisition purposes, the packaging requirements shall be as specified in the contract or order (see 6.2). When packaging of materiel is to be performed by DoD or in-house contractor personnel, these personnel need to contact the responsible packaging activity to ascertain packaging requirements. Packaging requirements are maintained by the Inventory Control Point's packaging activities within the Military Service or Defense Agency, or within the military service's system commands. Packaging data retrieval is available from the managing Military Department's or Defense Agency's automated packaging files, CD-ROM products, or by contacting the responsible packaging activity.

6. NOTES

(This section contains information of a general or explanatory nature, which may be helpful, but is not mandatory.)

6.1 Intended use. Capacitors conforming to this drawing are intended for use when military specifications do not exist and qualified military devices that will perform the required function are not available for OEM application. This drawing is intended exclusively to prevent the proliferation of unnecessary duplicate specifications, drawings, and stock catalog listings. When a military specification exists and the product covered by this drawing has been qualified for listing, this drawing becomes obsolete and will not be used for new design.

6.2 Ordering data. The contract or purchase order should specify the following:

- a. Complete PIN (see 1.2).
- b. Requirements for packaging and packing.
- c. Requirements for additional testing, if applicable (see 3.6).

6.3 Tin whisker growth. The use of alloys with tin content greater than 97 percent, by mass, may exhibit tin whisker growth problems after manufacture. Tin whiskers may occur anytime from a day to years after manufacture and can develop under typical operating conditions, on products that use such materials. Conformal coatings applied over top of a whisker-prone surface will not prevent the formation of tin whiskers.

6.4 Extended use in vacuum atmosphere may not be recommended. Please contact the manufacturer for specific details.

6.5 Users of record. Coordination of this document for future revisions is coordinated only with the approved sources of supply and the users of record of this document. Requests to be added as a recorded user of this drawing should be in writing to: DLA Land and Maritime, ATTN: VAT, Post Office Box 3990, Columbus, OH 43218-3990 or e-mailed to [capacitorfilter@dla.mil](mailto:capacitorfilter@dla.mil) also by telephone (614) 692-4709 or DSN 850-4709.

6.6 Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

6.7 Approved sources of supply. Approved sources of supply are listed herein. Additional sources will be added as they become available. For assistance in the use of this drawing, contact DLA Land and Maritime, ATTN: VAT, Post Office Box 3990, Columbus, OH 43218-3990 or e-mailed to [capacitorfilter@dla.mil](mailto:capacitorfilter@dla.mil) also by telephone (614) 692-4709 or DSN 850-4709.

| DSCC drawing PIN | Vendors similar designation or type number <sup>1/</sup> | Vendor CAGE | Vendor's name and address   |
|------------------|--|-------------|---|
| 04051-****       | T540*****  | 31433       | KEMET Electronics Corporation<br>P.O. Box 5928<br>Greenville, SC 29606-0647 |

<sup>1/</sup> Parts must be purchased to the DSCC PIN to assure all performance requirements and tests are met.

|   |                   |                                 |                          |
|---|-------------------|---------------------------------|--------------------------|
| <b>DEFENSE SUPPLY CENTER, COLUMBUS<br/>COLUMBUS, OHIO</b> | <b>SIZE<br/>A</b> | <b>CODE IDENT NO.<br/>037Z3</b> | <b>DWG NO.<br/>04051</b> |
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