| REVISIONS | | | |
|---|---|---|---|
| LTR | DESCRIPTION | DATE (YR-MO-DA) | APPROVED |
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Prepared in accordance with ASME Y14.100

Selected item drawing

| REV STATUS OF PAGES | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| REV | | | | | | | | | | | | | | | | | | | |
| PAGES | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | | | |

| | | | |
|---|---|---|---|
| **PMIC N/A** | **PREPARED BY**<br>John Bonitatibus | | **DESIGN ACTIVITY**<br>**DLA WEAPONS SUPPORT (COLUMBUS)**<br>**COLUMBUS, OH 43218-3990** |
| Original date of drawing<br>26-09-28 | **CHECKED BY**<br>John Bonitatibus | | **TITLE**<br>CAPACITOR, CHIP, SINGLE LAYER, FIXED, 2-TERMINAL, GAP, CERAMIC DIELECTRIC |
| | **APPROVED BY**<br>Mark Rush | | |
| | **SIZE**<br>**A** | **CAGE CODE**<br>**037Z3** | **DWG NO.**<br>26002 |
| | **SCALE**<br>N/A | **REV** | **PAGE** 1 **OF** 16 |

AMSC N/A

5910-2026-E05

DISTRIBUTION STATEMENT A. Approved for public release. Distribution is unlimited.

1. SCOPE

1.1 Scope. This drawing describes the general requirements for ceramic, single layer, 2 terminal, gap capacitors. These capacitors are intended for advanced broadband and RF applications.

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

| 26002 | A | 15 | N | 100 | K | P | B |
|---|---|---|---|---|---|---|---|
| Drawing number | Rated voltage (see 1.2.1) | Case size (see 1.2.2) | Dielectric type (see 1.2.3) | Capacitance (see 1.2.4) | Capacitance tolerance (see 1.2.5) | Termination finish (see 1.2.6) | Group B testing option (see 1.2.7) |

1.2.1 Rated voltage. The rated voltage for continuous operation at +125°C is identified by a single letter as shown in table I.

TABLE I. Rated voltage.

| Symbol | Rated voltage ($V_{dc}$) |
|---|---|
| A | 6.3 |
| C | 10 |
| E | 16 |
| L | 25 |
| G | 50 |
| B | 100 |

1.2.2 Case size. The case size is identified by a two-digit number (see figure 1).

1.2.3 Dielectric type. The dielectric type is identified by a single letter as shown in table II.

TABLE II. Dielectric type.

| Symbol | Material | Temperature coefficient | Temperature range |
|---|---|---|---|
| P | Porcelain | Neg. | -55°C to +125°C |
| Q | Class I (NPQ) | ± 25 ppm | -55°C to +125°C |
| N | Class I (NPO) | ± 30 ppm | -55°C to +125°C |
| C | Class I (NPS) | + 0, - 5% | -55°C to +125°C |
| X | Class II (X7R) | ± 15% | -55°C to +125°C |
| Y | Class III (Y6V) | + 5%, -65% | -30°C to +105°C |

1.2.4 Capacitance. The nominal capacitance value expressed in picofarads (pF) is identified by a three-digit number; the first two digits represent significant figures and the last digit specifies the number of zeros to follow. When the nominal value is less than 10 pF, the letter "R" is used to indicate the decimal point and the succeeding digit(s) of the group represent significant figure(s). For example, 1R0 indicates 1.0 pF and 0R5 indicates 0.5 pF.

1.2.5 Capacitance tolerance. The capacitance tolerance is identified by a single letter in accordance with table III.

TABLE III. Capacitance tolerance.

| Symbol | Capacitance tolerance |
|---|---|
| B | ± .10 pF |
| C | ± .25 pF |
| D | ± .50 pF |
| G | ± 2 percent |
| J | ± 5 percent |
| K | ± 10 percent |
| M | ± 20 percent |
| N | ± 30 percent |
| P | + 100, -0 percent |
| Z | + 80, -20 percent |

1.2.6 Termination finish. The termination finish is identified by a single letter as shown in table IV.

TABLE IV. Termination finish.

| Symbol | Metallization |
|---|---|
| P | Platinum (Pt) (100 µ-in. min.) |
| G | Gold (Au) (100 µ-in. min.) |

1.2.7 Group B testing option. Optional group B testing is identified by the letter B. If group B testing is not desired, leave this location blank. NOTE: group B testing includes a 1,000-hour life test that may significantly extend the processing time.

2. APPLICABLE PUBLICATIONS

2.1 General. The publications listed in this section are specified in sections 3 and 4 of this specification. This section does not include publications 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 publications in sections 3 and 4 of this specification, whether or not they are listed herein.

2.2 Government publications.

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 publications are those cited in the solicitation or contract (see 6.2).

DEPARTMENT OF DEFENSE STANDARDS

| | | |
|---|---|---|
| MIL-STD-202-108 | - | Method 108, Life (at Elevated Ambient Temperature) |
| MIL-STD-202-301 | - | Method 301, Dielectric Withstanding Voltage |
| MIL-STD-202-302 | - | Method 302, Insulation Resistance |
| MIL-STD-202-305 | - | Method 305, Capacitance |
| MIL-STD-883 | - | Test Methods and Procedures for Microelectronics |

(Copies of these publications are available online at https://quicksearch.dla.mil/.)

2.3 Order of precedence. Unless otherwise noted herein or in the contract, 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.

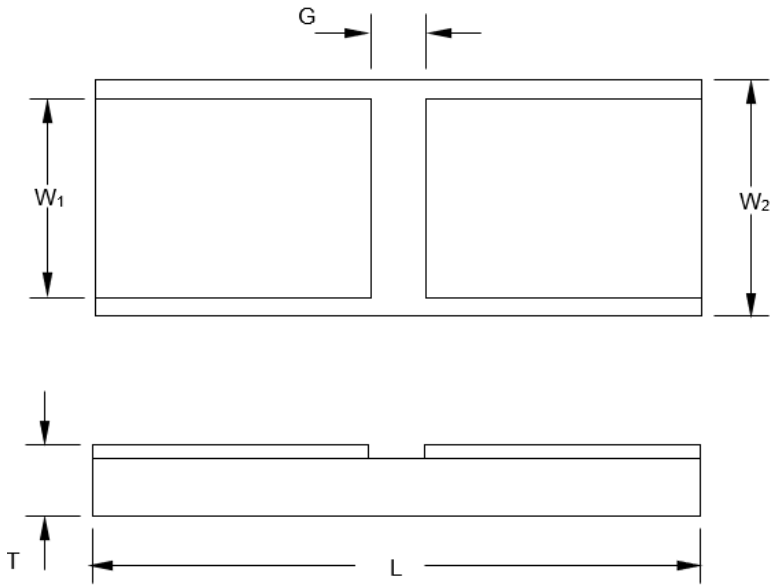
3. REQUIREMENTS

3.1 Interface and physical dimensions. The interface and physical dimensions shall be as specified herein (see figure 1).

3.1.1 Case type. Single-sided, unencapsulated, gapped 2-terminal.

3.1.2 Termination finish. P or G (see 1.2.6).

3.1.3 Pure tin. 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).




| Dimensions (inches (mm)) | | | | | | |
|---|---|---|---|---|---|---|
| Case code | Case Size | L | $W_2$ | T | $W_1$ | G |
| 50 | 0806 | .080 ± .004 (2.032 ± 0.102) | .060 ± .004 (1.651 ± 0.102) | .014 Max (0.356 Max) | .0048 ± 0.003 (0.122 ± 0.076) | .008 Min (0.203 Min) |
| 40 | 0805 | .080 ± .004 (2.032 ± 0.102) | .050 ± .004 (1.270 ± 0.102) | .014 Max (0.356 Max) | .040 ± 0.003 (1.016 ± 0.076) | .008 Min (0.203 Min) |
| 25 | 0803 | .080 ± .004 (2.032 ± 0.102) | .030 ± .003 (0.762 ± 0.076) | .012 Max (0.305 Max) | .025 ± 0.003 (0.635 ± 0.076) | .004 Min (0.102 Min) |
| 22 | 0603 | .060 ± .004 (1.524 ± 0.102) | .030 ± .003 (0.762 ± 0.076) | .012 Max (0.305 Max) | .024 ± 0.003 (0.610 ± 0.076) | .003 Min (0.076 Min) |
| 20 | 0503 | .045 ± .004 (1.143 ± 0.102) | .025 ± .003 (0.635 ± 0.076) | .012 Max (0.305 Max) | .021 ± 0.003 (0.533 ± 0.076) | .003 Min (0.076 Min) |
| 17 | 0502 | .050 ± .004 (1.270 ± 0.102) | .02 ± .002 (0.508 ± 0.051) | .012 Max (0.305 Max) | .017 ± 0.003 (0.432 ± 0.076) | .003 Min (0.076 Min) |
| 15 | 0402 | .040 ± .004 (1.016 ± 0.102) | .020 ± .002 (0.508 ± 0.051) | .009 Max (0.229 Max) | .017 ± 0.003 (0.432 ± 0.076) | .003 Min (0.076 Min) |
| 12 | 0301 | .035 ± .005 (0.889 ± 0.127) | .012 Max (0.305 Max) | .009 Max (0.229 Max) | .008 ± 0.003 (0.203 ± 0.076) | .003 Min (0.076 Min) |
| 10 | 0201 | .020 ± .004 (0.508 ± 0.102) | .012 Max (0.305 Max) | .009 Max (0.229 Max) | .007 ± 0.002 (0.178 ± 0.051) | .002 Min (0.051 Min) |

NOTES:
1. Dimensions are in inches.
2. Metric equivalents are in millimeters and are given for general information only.

FIGURE 1. Dimensions and configuration.

3.2 Electrical characteristics.

3.2.1 Operating temperature range See table II.

3.2.2 Temperature coefficient. See table II.

3.2.3 Capacitance. See table VII.

3.2.4 Rated voltage. See 1.2.1 and table VII.

3.2.5 Capacitance tolerance. See 1.2.5 and table VII.

3.3 Test criteria.

3.3.1 Thermal shock. When tested as specified in 3.3.1.1, capacitors shall withstand the extremes of high and low temperature without visible damage and meet the following requirements:

a. Capacitance (at +25°C): Shall be within the tolerance as specified in 3.3.2.

b. Dissipation factor (at +25°C): Shall not exceed the value as specified in 3.3.3

c. Insulation resistance (at +25°C): Shall not be less than the value specified in 3.3.4

d. Dielectric withstanding voltage (at +25°C): Shall be as specified in 3.3.5.

3.3.1.1 Thermal shock method. Capacitors shall be tested in accordance with MIL-STD-202-107. The following details shall apply:

a. Test condition A, except that in step 3, units shall be tested at +125°C +3°C, -0°C.

b. Number of cycles: 5 cycles.

c. Measurements after test: After completion of the test, capacitance, dissipation factor, insulation resistance and dielectric withstanding voltage shall be measured as specified in 3.3.2, 3.3.3, 3.3.4, and 3.3.5, respectively. The manufacturer has the option of performing the measurements in any order except insulation resistance shall always be measured after dielectric withstanding voltage.

3.3.2 Capacitance. When capacitors are tested in accordance with MIL-STD-202-305, the capacitance shall be within the specified tolerance (see table VII). The following details and exceptions shall apply:

a. Test frequencies: 1 MHz ± 10 percent for all capacitors less than or equal to 1000 pF or 1 kHz ± 10 percent for all capacitors greater than 1000 pF.

b. Test voltage: A root-mean-square potential of 1.0 ± 0.2 volts, when no polarizing voltage is applied.

3.3.3 Dissipation factor (DF). When measured with a capacitance bridge or other suitable method at the frequency and voltage as specified in 3.3.2, the dissipation factor shall not exceed the value specified in table V.

TABLE V. Dissipation factor.

| Symbol | DF (%) |
|---|---|
| P | .01 |
| Q | .10 |
| N | .15 |
| C | .50 |
| X | 2.50 |
| Y | 4.00 |

3.3.4 Insulation resistance. When capacitors are tested in accordance with MIL-STD-202-302, the insulation resistance at +25°C shall be not less than 100 GΩ for dielectric types P, Q, N, C, and X or not less than 10 GΩ for dielectric type Y. The following details and exceptions shall apply:

a. Test conditions: Rated voltage as specified (see table VII) applied through a series resistor sufficient to limit the charging current to a minimum of 30 mA and a maximum of 50 mA.

b. Special conditions: If a failure occurs at a relative humidity of 50 percent or higher, the insulation resistance may be measured again at a relative humidity of less than 50 percent.

c. Points of measurement: Between the terminations.

3.3.5 Dielectric withstanding voltage. When unmounted capacitors shall be tested in accordance with MIL-STD-202-301, there shall be no evidence of breakdown or visible evidence of arcing or damage. The following details and exceptions shall apply:

a. Magnitude and nature of test voltage: 250 percent of dc rated voltage for 1 to 5 seconds.

b. Points of application of test voltage: Between the capacitor-element terminals.

c. Limiting value of surge current: 50 mA maximum.

d. Examination after test: Capacitors shall be examined for evidence of damage and breakdown.

3.3.6 Visual and mechanical examination. Capacitors shall be examined to verify that the materials, design, construction, physical dimensions, and workmanship, as applicable are in accordance with the applicable requirements (see 3.1, figure 1, and 3.8).

3.3.7 Life (at +125°C). When tested as specified in 3.3.7.1, capacitors shall meet the following requirements:

a. Visual examination: No mechanical damage.

b. Insulation resistance (at +25°C): Shall be greater than or equal to 1 GΩ.

c. Capacitance change: Shall be within ± 7.5 percent or ± 0.75 pF, whichever is larger.

d. Dissipation factor: Shall be as specified in 3.3.2.

3.3.7.1 Life method. Capacitors shall be tested in accordance with MIL-STD-202-108. The following details and exceptions shall apply:

a. Test temperature and tolerance: +125°C, ± 3°C.

b. Operating conditions: Capacitors shall be subjected to rated voltage (see table VII).

c. Test condition: D (1,000 hours +24 hours, -0 hours).

d. Measurements after exposure: At the conclusion of this test, the capacitors shall be de-aged at +150°C for 1 hour then allowed to cool for 24 hours ± 2 hours at room temperature. The capacitors shall then be visually inspected for evidence of mechanical damage and capacitance, dissipation factor, and insulation resistance shall be measured as specified in 3.3.2, 3.3.3, and 3.3.4, respectively.

3.3.8 Die shear strength. When tested as specified in method 2019 of MIL-STD-883, the die shear strength shall be 2 N minimum. Capacitors shall be mounted to a PtAg metallized alumina substrate with In70Pb30 or SAC305 solder.

3.3.9 Temperature coefficient limits. When capacitors are tested as specified in 3.3.2, the capacitance change shall not exceed the applicable limits specified in table II. The capacitance measurements shall be made at the steps shown in table VI and at a sufficient number of intermediate points between steps B and D of table VI to establish a true characteristic curve. The capacitance value obtained in step C of table VI shall be considered as the reference point. Capacitors shall be kept at each temperature until a temperature equilibrium is attained. These measurements need only be performed on X and Y dielectric (see table II) capacitors having a value of 10 pF or greater. Capacitors of less than 10 pF shall be characterized as having the same temperature coefficient limits as those of 10 pF or more manufactured in the same lot of ceramic material. Temperature coefficient limit data for P, Q, N, and C dielectric capacitors shall be in accordance with the dielectric material manufacturer's data.

TABLE VI. Temperature coefficient limit cycle.

| Step | Voltage, dc | Temperature, °C |
|---|---|---|
| A | None | +25 ± 2 |
| B | None | -55 ± 2 |
| C (reference) | None | +25 ± 2 |
| D | None | +125 + 4, -0 |

3.4 Marking. There shall be no marking on the capacitors. Capacitor packaging containers shall be marked with the DLA Weapons Support (Columbus) drawing PIN, capacitance, capacitance tolerance, voltage, date code and lot symbol, and the Commercial and Government Entity (CAGE) code.

3.5 Recycled, recovered, environmentally preferable, or biobased materials. Recycled, recovered, environmentally preferable, or biobased 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.

3.6 Manufacturer Eligibility. To be eligible for listing as a source of supply, a manufacturer shall perform the group A and group B inspections as specified herein on a sample of parts agreed upon by the manufacturer and DLA Weapons Support (Columbus) - VAT.

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

3.8 Workmanship. Capacitors shall be processed in such a manner as to be uniform in quality when using 7x minimum to 30x maximum magnification.

TABLE VII. Electrical characteristics.

| DLA Weapons Support (Columbus) PIN 1/ | Case size | Dielectric type | Capacitance (pF) | Capacitance tolerance | Termination finish |
|---|---|---|---|---|---|
| **6.3$V_{dc}$** | | | | | |
| 26002A50P220 - - - | 50 | P | 22 | B, C, D, G, J | P, G |
| 26002A50Q430 - - - | 50 | Q | 43 | B, C, D, G, J | P, G |
| 26002A50N121 - - - | 50 | N | 120 | J, K, M | P, G |
| 26002A50C471 - - - | 50 | C | 470 | J, K, M, N | P, G |
| 26002A50X302 - - - | 50 | X | 3000 | K, M, N, P | P, G |
| 26002A50Y183 - P - | 50 | Y | 18000 | M, N, P, Z | P |
| 26002A40P150 - - - | 40 | P | 15 | B, C, D, G, J | P, G |
| 26002A40Q300 - - - | 40 | Q | 30 | B, C, D, G, J | P, G |
| 26002A40N880 - - - | 40 | N | 88 | J, K, M | P, G |
| 26002A40C361 - - - | 40 | C | 360 | J, K, M, N | P, G |
| 26002A40X222 - - - | 40 | X | 2200 | K, M, N, P | P, G |
| 26002A40Y133 - P - | 40 | Y | 13000 | M, N, P, Z | P |
| 26002A25P110 - - - | 25 | P | 11 | B, C, D, G, J | P, G |
| 26002A25Q180 - - - | 25 | Q | 18 | B, C, D, G, J | P, G |
| 26002A25N560 - - - | 25 | N | 56 | J, K, M | P, G |
| 26002A25C221 - - - | 25 | C | 220 | J, K, M, N | P, G |
| 26002A25X132 - - - | 25 | X | 1300 | K, M, N, P | P, G |
| 26002A25Y822 - P - | 25 | Y | 8200 | M, N, P, Z | P |
| 26002A22P7R5 - - - | 22 | P | 7.5 | B, C, D | P, G |
| 26002A22Q150 - - - | 22 | Q | 15 | B, C, D, G, J | P, G |
| 26002A22N430 - - - | 22 | N | 43 | J, K, M | P, G |
| 26002A22C181 - - - | 22 | C | 180 | J, K, M, N | P, G |
| 26002A22X102 - - - | 22 | X | 1000 | K, M, N, P | P, G |
| 26002A22Y592 - P - | 22 | Y | 5900 | M, N, P, Z | P |
| 26002A20P4R7 - - - | 20 | P | 4.7 | B, C, D | P, G |
| 26002A20Q8R2 - - - | 20 | Q | 8.2 | B, C, D | P, G |
| 26002A20N270 - - - | 20 | N | 27 | J, K, M | P, G |

See footnote at end of table.

TABLE VI. Electrical characteristics - Continued.

| DLA Weapons Support (Columbus) PIN 1/ | Case size | Dielectric type | Capacitance (pF) | Capacitance tolerance | Termination finish |
|---|---|---|---|---|---|
| **6.3$V_{dc}$** – continued. | | | | | |
| 26002A20C101 - - - | 20 | C | 100 | J, K, M, N | P, G |
| 26002A20X621 - - - | 20 | X | 620 | K, M, N, P | P, G |
| 26002A20Y392 - P - | 20 | Y | 3900 | M, N, P, Z | P |
| 26002A17P4R3 - - - | 17 | P | 4.3 | B, C, D | P, G |
| 26002A17Q7R5 - - - | 17 | Q | 7.5 | B, C, D | P, G |
| 26002A17N220 - - - | 17 | N | 22 | J, K, M | P, G |
| 26002A17C900 - - - | 17 | C | 90 | J, K, M, N | P, G |
| 26002A17X551 - - - | 17 | X | 550 | K, M, N, P | P, G |
| 26002A17Y322 - P - | 17 | Y | 3200 | M, N, P, Z | P |
| 26002A15P3R6 - - - | 15 | P | 3.6 | B, C, D | P, G |
| 26002A15Q6R2 - - - | 15 | Q | 6.2 | B, C, D | P, G |
| 26002A15N180 - - - | 15 | N | 18 | J, K, M | P, G |
| 26002A15C750 - - - | 15 | C | 75 | J, K, M, N | P, G |
| 26002A15X431 - - - | 15 | X | 430 | K, M, N, P | P, G |
| 26002A15Y272 - P - | 15 | Y | 2700 | M, N, P, Z | P |
| 26002A12P1R8 - - - | 12 | P | 1.8 | B, C, D | P, G |
| 26002A12Q3R3 - - - | 12 | Q | 3.3 | B, C, D | P, G |
| 26002A12N100 - - - | 12 | N | 10 | J, K, M | P, G |
| 26002A12C410 - - - | 12 | C | 41 | J, K, M, N | P, G |
| 26002A12X241 - - - | 12 | X | 240 | K, M, N, P | P, G |
| 26002A12Y152 - P - | 12 | Y | 1500 | M, N, P, Z | P |
| 26002A10P0R5 - - - | 10 | P | 0.5 | B, C, D | P, G |
| 26002A10Q0R8 - - - | 10 | Q | 0.8 | B, C, D | P, G |
| 26002A10N2R4 - - - | 10 | N | 2.4 | J, K, M | P, G |
| 26002A10C100 - - - | 10 | C | 10 | J, K, M, N | P, G |
| 26002A10X620 - - - | 10 | X | 62 | K, M, N, P | P, G |
| 26002A10Y361 - P - | 10 | Y | 360 | M, N, P, Z | P |
| **10$V_{dc}$** | | | | | |
| 26002C50P180 - - - | 50 | P | 18 | B, C, D, G, J | P, G |
| 26002C50Q300 - - - | 50 | Q | 30 | B, C, D, G, J | P, G |
| 26002C50N910 - - - | 50 | N | 91 | J, K, M | P, G |
| 26002C50C361 - - - | 50 | C | 360 | J, K, M, N | P, G |
| 26002C50X222 - - - | 50 | X | 2200 | K, M, N, P | P, G |
| 26002C50Y133 - P - | 50 | Y | 13000 | M, N, P, Z | P |
| 26002C40P120 - - - | 40 | P | 12 | B, C, D, G, J | P, G |
| 26002C40Q220 - - - | 40 | Q | 22 | B, C, D, G, J | P, G |
| 26002C40N680 - - - | 40 | N | 68 | J, K, M | P, G |
| 26002C40C271 - - - | 40 | C | 270 | J, K, M, N | P, G |
| 26002C40X162 - - - | 40 | X | 1600 | K, M, N, P | P, G |
| 26002C40Y912 - P - | 40 | Y | 9100 | M, N, P, Z | P |
| 26002C25P7R5 - - - | 25 | P | 7.5 | B, C, D | P, G |
| 26002C25Q150 - - - | 25 | Q | 15 | B, C, D, G, J | P, G |
| 26002C25N430 - - - | 25 | N | 43 | J, K, M | P, G |
| 26002C25C181 - - - | 25 | C | 180 | J, K, M, N | P, G |
| 26002C25X911 - - - | 25 | X | 910 | K, M, N, P | P, G |
| 26002C25Y562 - P - | 25 | Y | 5600 | M, N, P, Z | P |
| 26002C22P5R6 - - - | 22 | P | 5.6 | B, C, D | P, G |
| 26002C22Q100 - - - | 22 | Q | 10 | B, C, D | P, G |
| 26002C22N300 - - - | 22 | N | 30 | J, K, M | P, G |
| 26002C22C121 - - - | 22 | C | 120 | J, K, M, N | P, G |
| 26002C22X751 - - - | 22 | X | 750 | K, M, N, P | P, G |
| 26002C22Y472 - P - | 22 | Y | 4700 | M, N, P, Z | P |

See footnote at end of table.

TABLE VI. Electrical characteristics - Continued.

| DLA Weapons Support (Columbus) PIN 1/ | Case size | Dielectric type | Capacitance (pF) | Capacitance tolerance | Termination finish |
|---|---|---|---|---|---|
| **$10V_{dc}$** – continued. | | | | | |
| 26002C20P3R6 - - - | 20 | P | 3.6 | B, C, D | P, G |
| 26002C20Q6R8 - - - | 20 | Q | 6.8 | B, C, D | P, G |
| 26002C20N200 - - - | 20 | N | 20 | J, K, M | P, G |
| 26002C20C750 - - - | 20 | C | 75 | J, K, M, N | P, G |
| 26002C20X471 - - - | 20 | X | 470 | K, M, N, P | P, G |
| 26002C20Y272 - P - | 20 | Y | 2700 | M, N, P, Z | P |
| 26002C17P3R2 - - - | 17 | P | 3.2 | B, C, D | P, G |
| 26002C17Q5R6 - - - | 17 | Q | 5.6 | B, C, D | P, G |
| 26002C17N170 - - - | 17 | N | 17 | J, K, M | P, G |
| 26002C17C680 - - - | 17 | C | 68 | J, K, M, N | P, G |
| 26002C17X401 - - - | 17 | X | 400 | K, M, N, P | P, G |
| 26002C17Y242 - P - | 17 | Y | 2400 | M, N, P, Z | P |
| 26002C15P2R7 - - - | 15 | P | 2.7 | B, C, D | P, G |
| 26002C15Q4R8 - - - | 15 | Q | 4.8 | B, C, D | P, G |
| 26002C15N150 - - - | 15 | N | 15 | J, K, M | P, G |
| 26002C15C560 - - - | 15 | C | 56 | J, K, M, N | P, G |
| 26002C15X331 - - - | 15 | X | 330 | K, M, N, P | P, G |
| 26002C15Y222 - P - | 15 | Y | 2200 | M, N, P, Z | P |
| 26002C12P1R5 - - - | 12 | P | 1.5 | B, C, D | P, G |
| 26002C12Q2R7 - - - | 12 | Q | 2.7 | B, C, D | P, G |
| 26002C12N7R5 - - - | 12 | N | 7.5 | J, K, M | P, G |
| 26002C12C300 - - - | 12 | C | 30 | J, K, M, N | P, G |
| 26002C12X181 - - - | 12 | X | 180 | K, M, N, P | P, G |
| 26002C12Y112 - P - | 12 | Y | 1100 | M, N, P, Z | P |
| 26002C10P0R4 - - - | 10 | P | 0.4 | B, C, D | P, G |
| 26002C10Q0R6 - - - | 10 | Q | 0.6 | B, C, D | P, G |
| 26002C10N2R0 - - - | 10 | N | 2.0 | J, K, M | P, G |
| 26002C10C7R5 - - - | 10 | C | 7.5 | J, K, M, N | P, G |
| 26002C10X470 - - - | 10 | X | 47 | K, M, N, P | P, G |
| 26002C10Y271 - P - | 10 | Y | 270 | M, N, P, Z | P |
| **$16V_{dc}$** | | | | | |
| 26002E50P150 - - - | 50 | P | 15 | B, C, D, G, J | P, G |
| 26002E50Q240 - - - | 50 | Q | 24 | B, C, D, G, J | P, G |
| 26002E50N730 - - - | 50 | N | 73 | J, K, M | P, G |
| 26002E50C271 - - - | 50 | C | 270 | J, K, M, N | P, G |
| 26002E50X182 - - - | 50 | X | 1800 | K, M, N, P | P, G |
| 26002E50Y103 - P - | 50 | Y | 10000 | M, N, P, Z | P |
| 26002E40P100 - - - | 40 | P | 10 | B, C, D | P, G |
| 26002E40Q180 - - - | 40 | Q | 18 | B, C, D, G, J | P, G |
| 26002E40N510 - - - | 40 | N | 51 | J, K, M | P, G |
| 26002E40C221 - - - | 40 | C | 220 | J, K, M, N | P, G |
| 26002E40X122 - - - | 40 | X | 1200 | K, M, N, P | P, G |
| 26002E40Y752 - P - | 40 | Y | 7500 | M, N, P, Z | P |
| 26002E25P6R2 - - - | 25 | P | 6.2 | B, C, D | P, G |
| 26002E25Q100 - - - | 25 | Q | 10 | B, C, D | P, G |
| 26002E25N330 - - - | 25 | N | 33 | J, K, M | P, G |
| 26002E25C121 - - - | 25 | C | 120 | J, K, M, N | P, G |
| 26002E25X751 - - - | 25 | X | 750 | K, M, N, P | P, G |
| 26002E25Y472 - P - | 25 | Y | 4700 | M, N, P, Z | P |
| 26002E22P4R7 - - - | 22 | P | 4.7 | B, C, D | P, G |
| 26002E22Q8R2 - - - | 22 | Q | 8.2 | B, C, D | P, G |
| 26002E22N240 - - - | 22 | N | 24 | J, K, M | P, G |

See footnote at end of table.

TABLE VI. Electrical characteristics - Continued.

| DLA Weapons Support (Columbus) PIN 1/ | Case size | Dielectric type | Capacitance (pF) | Capacitance tolerance | Termination finish |
|---|---|---|---|---|---|
| **16V$_{dc}$** – continued. | | | | | |
| 26002E22C101 - - - | 22 | C | 100 | J, K, M, N | P, G |
| 26002E22X601 - - - | 22 | X | 600 | K, M, N, P | P, G |
| 26002E22Y362 - P - | 22 | Y | 3600 | M, N, P, Z | P |
| 26002E20P3R0 - - - | 20 | P | 3.0 | B, C, D | P, G |
| 26002E20Q5R1 - - - | 20 | Q | 5.1 | B, C, D | P, G |
| 26002E20N150 - - - | 20 | N | 15 | J, K, M | P, G |
| 26002E20C620 - - - | 20 | C | 62 | J, K, M, N | P, G |
| 26002E20X361 - - - | 20 | X | 360 | K, M, N, P | P, G |
| 26002E20Y222 - P - | 20 | Y | 2200 | M, N, P, Z | P |
| 26002E17P2R6 - - - | 17 | P | 2.6 | B, C, D | P, G |
| 26002E17Q4R5 - - - | 17 | Q | 4.5 | B, C, D | P, G |
| 26002E17N130 - - - | 17 | N | 13 | J, K, M | P, G |
| 26002E17C500 - - - | 17 | C | 50 | J, K, M, N | P, G |
| 26002E17X331 - - - | 17 | X | 330 | K, M, N, P | P, G |
| 26002E17Y192 - P - | 17 | Y | 1900 | M, N, P, Z | P |
| 26002E15P2R2 - - - | 15 | P | 2.2 | B, C, D | P, G |
| 26002E15Q3R9 - - - | 15 | Q | 3.9 | B, C, D | P, G |
| 26002E15N120 - - - | 15 | N | 12 | J, K, M | P, G |
| 26002E15C470 - - - | 15 | C | 47 | J, K, M, N | P, G |
| 26002E15X271 - - - | 15 | X | 270 | K, M, N, P | P, G |
| 26002E15Y162 - P - | 15 | Y | 1600 | M, N, P, Z | P |
| 26002E12P1R2 - - - | 12 | P | 1.2 | B, C, D | P, G |
| 26002E12Q2R2 - - - | 12 | Q | 2.2 | B, C, D | P, G |
| 26002E12N6R2 - - - | 12 | N | 6.2 | J, K, M | P, G |
| 26002E12C240 - - - | 12 | C | 24 | J, K, M, N | P, G |
| 26002E12X151 - - - | 12 | X | 150 | K, M, N, P | P, G |
| 26002E12Y881 - P - | 12 | Y | 880 | M, N, P, Z | P |
| 26002E10P0R3 - - - | 10 | P | 0.3 | B, C, D | P, G |
| 26002E10Q0R5 - - - | 10 | Q | 0.5 | B, C, D | P, G |
| 26002E10N1R5 - - - | 10 | N | 1.5 | J, K, M | P, G |
| 26002E10C6R2 - - - | 10 | C | 6.2 | J, K, M, N | P, G |
| 26002E10X360 - - - | 10 | X | 36 | K, M, N, P | P, G |
| 26002E10Y221 - P - | 10 | Y | 220 | M, N, P, Z | P |
| **25V$_{dc}$** | | | | | |
| 26002L50P120 - - - | 50 | P | 12 | B, C, D, G, J | P, G |
| 26002L50Q200 - - - | 50 | Q | 20 | B, C, D, G, J | P, G |
| 26002L50N620 - - - | 50 | N | 62 | J, K, M | P, G |
| 26002L50C241 - - - | 50 | C | 240 | J, K, M, N | P, G |
| 26002L50X152 - - - | 50 | X | 1500 | K, M, N, P | P, G |
| 26002L50Y912 - P - | 50 | Y | 9100 | M, N, P, Z | P |
| 26002L40P8R2 - - - | 40 | P | 8.2 | B, C, D | P, G |
| 26002L40Q150 - - - | 40 | Q | 15 | B, C, D, G, J | P, G |
| 26002L40N450 - - - | 40 | N | 45 | J, K, M | P, G |
| 26002L40C181 - - - | 40 | C | 180 | J, K, M, N | P, G |
| 26002L40X112 - - - | 40 | X | 1100 | K, M, N, P | P, G |
| 26002L40Y652 - P - | 40 | Y | 6500 | M, N, P, Z | P |
| 26002L25P5R1 - - - | 25 | P | 5.1 | B, C, D | P, G |
| 26002L25Q9R1 - - - | 25 | Q | 9.1 | B, C, D | P, G |
| 26002L25N270 - - - | 25 | N | 27 | J, K, M | P, G |
| 26002L25C111 - - - | 25 | C | 110 | J, K, M, N | P, G |
| 26002L25X681 - - - | 25 | X | 680 | K, M, N, P | P, G |
| 26002L25Y402 - P - | 25 | Y | 4000 | M, N, P, Z | P |

See footnote at end of table.

TABLE VI. Electrical characteristics - Continued.

| DLA Weapons Support (Columbus) PIN 1/ | Case size | Dielectric type | Capacitance (pF) | Capacitance tolerance | Termination finish |
|---|---|---|---|---|---|
| **25$V_{dc}$** – continued. | | | | | |
| 26002L22P4R0 - - - | 22 | P | 4.0 | B, C, D | P, G |
| 26002L22Q6R8 - - - | 22 | Q | 6.8 | B, C, D | P, G |
| 26002L22N200 - - - | 22 | N | 20 | J, K, M | P, G |
| 26002L22C820 - - - | 22 | C | 82 | J, K, M, N | P, G |
| 26002L22X511 - - - | 22 | X | 510 | K, M, N, P | P, G |
| 26002L22Y302 - P - | 22 | Y | 3000 | M, N, P, Z | P |
| 26002L20P2R4 - - - | 20 | P | 2.4 | B, C, D | P, G |
| 26002L20Q4R3 - - - | 20 | Q | 4.3 | B, C, D | P, G |
| 26002L20N120 - - - | 20 | N | 12 | J, K, M | P, G |
| 26002L20C510 - - - | 20 | C | 51 | J, K, M, N | P, G |
| 26002L20X301 - - - | 20 | X | 300 | K, M, N, P | P, G |
| 26002L20Y202 - P - | 20 | Y | 2000 | M, N, P, Z | P |
| 26002L17P2R2 - - - | 17 | P | 2.2 | B, C, D | P, G |
| 26002L17Q3R8 - - - | 17 | Q | 3.8 | B, C, D | P, G |
| 26002L17N110 - - - | 17 | N | 11 | J, K, M | P, G |
| 26002L17C470 - - - | 17 | C | 47 | J, K, M, N | P, G |
| 26002L17X281 - - - | 17 | X | 280 | K, M, N, P | P, G |
| 26002L17Y172 - P - | 17 | Y | 1700 | M, N, P, Z | P |
| 26002L15P2R0 - - - | 15 | P | 2.0 | B, C, D | P, G |
| 26002L15Q3R3 - - - | 15 | Q | 3.3 | B, C, D | P, G |
| 26002L15N100 - - - | 15 | N | 10 | J, K, M | P, G |
| 26002L15C400 - - - | 15 | C | 40 | J, K, M, N | P, G |
| 26002L15X221 - - - | 15 | X | 220 | K, M, N, P | P, G |
| 26002L15Y152 - P - | 15 | Y | 1500 | M, N, P, Z | P |
| 26002L12P1R0 - - - | 12 | P | 1.0 | B, C, D | P, G |
| 26002L12Q1R8 - - - | 12 | Q | 1.8 | B, C, D | P, G |
| 26002L12N5R1 - - - | 12 | N | 5.1 | J, K, M | P, G |
| 26002L12C200 - - - | 12 | C | 20 | J, K, M, N | P, G |
| 26002L12X121 - - - | 12 | X | 120 | K, M, N, P | P, G |
| 26002L12Y751 - P - | 12 | Y | 750 | M, N, P, Z | P |
| 26002L10PR25 - - - | 10 | P | 0.25 | B, C, D | P, G |
| 26002L10Q0R4 - - - | 10 | Q | 0.4 | B, C, D | P, G |
| 26002L10N1R2 - - - | 10 | N | 1.2 | J, K, M | P, G |
| 26002L10C5R1 - - - | 10 | C | 5.1 | J, K, M, N | P, G |
| 26002L10X300 - - - | 10 | X | 30 | K, M, N, P | P, G |
| 26002L10Y181 - P - | 10 | Y | 180 | M, N, P, Z | P |
| **50$V_{dc}$** | | | | | |
| 26002G50P110 - - - | 50 | P | 11 | B, C, D, G, J | P, G |
| 26002G50Q190 - - - | 50 | Q | 19 | B, C, D, G, J | P, G |
| 26002G50N560 - - - | 50 | N | 56 | J, K, M | P, G |
| 26002G50C221 - - - | 50 | C | 220 | J, K, M, N | P, G |
| 26002G50X142 - - - | 50 | X | 1400 | K, M, N, P | P, G |
| 26002G50Y822 - P - | 50 | Y | 8200 | M, N, P, Z | P |
| 26002G40P8R0 - - - | 40 | P | 8.0 | B, C, D | P, G |
| 26002G40Q130 - - - | 40 | Q | 13 | B, C, D, G, J | P, G |
| 26002G40N430 - - - | 40 | N | 43 | J, K, M | P, G |
| 26002G40C161 - - - | 40 | C | 160 | J, K, M, N | P, G |
| 26002G40X102 - - - | 40 | X | 1000 | K, M, N, P | P, G |
| 26002G40Y602 - P - | 40 | Y | 6000 | M, N, P, Z | P |
| 26002G25P4R7 - - - | 25 | P | 4.7 | B, C, D | P, G |
| 26002G25Q8R5 - - - | 25 | Q | 8.5 | B, C, D | P, G |
| 26002G25N270 - - - | 25 | N | 27 | J, K, M | P, G |

See footnote at end of table.

TABLE VI. Electrical characteristics - Continued.

| DLA Weapons Support (Columbus) PIN 1/ | Case size | Dielectric type | Capacitance (pF) | Capacitance tolerance | Termination finish |
|---|---|---|---|---|---|
| **50V$_{dc}$** – continued. | | | | | |
| 26002G25C101 - - - | 25 | C | 100 | J, K, M, N | P, G |
| 26002G25X601 - - - | 25 | X | 600 | K, M, N, P | P, G |
| 26002G25Y362 - P - | 25 | Y | 3600 | M, N, P, Z | P |
| 26002G22P3R6 - - - | 22 | P | 3.6 | B, C, D | P, G |
| 26002G22Q6R2 - - - | 22 | Q | 6.2 | B, C, D | P, G |
| 26002G22N200 - - - | 22 | N | 20 | J, K, M | P, G |
| 26002G22C750 - - - | 22 | C | 75 | J, K, M, N | P, G |
| 26002G22X471 - - - | 22 | X | 470 | K, M, N, P | P, G |
| 26002G22Y272 - P - | 22 | Y | 2700 | M, N, P, Z | P |
| 26002G20P2R4 - - - | 20 | P | 2.4 | B, C, D | P, G |
| 26002G20Q4R0 - - - | 20 | Q | 4.0 | B, C, D | P, G |
| 26002G20N120 - - - | 20 | N | 12 | J, K, M | P, G |
| 26002G20C470 - - - | 20 | C | 47 | J, K, M, N | P, G |
| 26002G20X291 - - - | 20 | X | 290 | K, M, N, P | P, G |
| 26002G20Y182 - P - | 20 | Y | 1800 | M, N, P, Z | P |
| 26002G17P2R0 - - - | 17 | P | 2.0 | B, C, D | P, G |
| 26002G17Q3R5 - - - | 17 | Q | 3.5 | B, C, D | P, G |
| 26002G17N100 - - - | 17 | N | 10 | J, K, M | P, G |
| 26002G17C430 - - - | 17 | C | 43 | J, K, M, N | P, G |
| 26002G17X251 - - - | 17 | X | 250 | K, M, N, P | P, G |
| 26002G17Y152 - P - | 17 | Y | 1500 | M, N, P, Z | P |
| 26002G15P1R8 - - - | 15 | P | 1.8 | B, C, D | P, G |
| 26002G15Q3R0 - - - | 15 | Q | 3.0 | B, C, D | P, G |
| 26002G15N9R1 - - - | 15 | N | 9.1 | J, K, M | P, G |
| 26002G15C360 - - - | 15 | C | 36 | J, K, M, N | P, G |
| 26002G15X201 - - - | 15 | X | 200 | K, M, N, P | P, G |
| 26002G15Y132 - P - | 15 | Y | 1300 | M, N, P, Z | P |
| 26002G12P0R9 - - - | 12 | P | 0.9 | B, C, D | P, G |
| 26002G12Q1R5 - - - | 12 | Q | 1.5 | B, C, D | P, G |
| 26002G12N4R7 - - - | 12 | N | 4.7 | J, K, M | P, G |
| 26002G12C190 - - - | 12 | C | 19 | J, K, M, N | P, G |
| 26002G12X111 - - - | 12 | X | 110 | K, M, N, P | P, G |
| 26002G12Y681 - P - | 12 | Y | 680 | M, N, P, Z | P |
| 26002G10P0R2 - - - | 10 | P | 0.2 | B, C, D | P, G |
| 26002G10Q0R3 - - - | 10 | Q | 0.3 | B, C, D | P, G |
| 26002G10N1R2 - - - | 10 | N | 1.2 | J, K, M | P, G |
| 26002G10C4R7 - - - | 10 | C | 4.7 | J, K, M, N | P, G |
| 26002G10X300 - - - | 10 | X | 30 | K, M, N, P | P, G |
| 26002G10Y181 - P - | 10 | Y | 180 | M, N, P, Z | P |
| **100V$_{dc}$** | | | | | |
| 26002B50P100 - - - | 50 | P | 10 | B, C, D | P, G |
| 26002B50Q160 - - - | 50 | Q | 16 | B, C, D, G, J | P, G |
| 26002B50N510 - - - | 50 | N | 51 | J, K, M | P, G |
| 26002B50C201 - - - | 50 | C | 200 | J, K, M, N | P, G |
| 26002B50X122 - - - | 50 | X | 1200 | K, M, N, P | P, G |
| 26002B50Y752 - P - | 50 | Y | 7500 | M, N, P, Z | P |
| 26002B40P7R2 - - - | 40 | P | 7.2 | B, C, D | P, G |
| 26002B40Q120 - - - | 40 | Q | 12 | B, C, D, G, J | P, G |
| 26002B40N360 - - - | 40 | N | 36 | J, K, M | P, G |
| 26002B40C151 - - - | 40 | C | 150 | J, K, M, N | P, G |
| 26002B40X901 - - - | 40 | X | 900 | K, M, N, P | P, G |
| 26002B40Y552 - P - | 40 | Y | 5500 | M, N, P, Z | P |

See footnote at end of table.

TABLE VI. Electrical characteristics - Continued.

| DLA Weapons Support (Columbus) PIN 1/ | Case size | Dielectric type | Capacitance (pF) | Capacitance tolerance | Termination finish |
|---|---|---|---|---|---|
| **100V$_{dc}$** – continued. | | | | | |
| 26002B25P4R4 - - - | 25 | P | 4.4 | B, C, D | P, G |
| 26002B25Q7R5 - - - | 25 | Q | 7.5 | B, C, D | P, G |
| 26002B25N230 - - - | 25 | N | 23 | J, K, M | P, G |
| 26002B25C900 - - - | 25 | C | 90 | J, K, M, N | P, G |
| 26002B25X561 - - - | 25 | X | 560 | K, M, N, P | P, G |
| 26002B25Y332 - P - | 25 | Y | 3300 | M, N, P, Z | P |
| 26002B22P3R3 - - - | 22 | P | 3.3 | B, C, D | P, G |
| 26002B22Q5R6 - - - | 22 | Q | 5.6 | B, C, D | P, G |
| 26002B22N170 - - - | 22 | N | 17 | J, K, M | P, G |
| 26002B22C700 - - - | 22 | C | 70 | J, K, M, N | P, G |
| 26002B22X431 - - - | 22 | X | 430 | K, M, N, P | P, G |
| 26002B22Y252 - P - | 22 | Y | 2500 | M, N, P, Z | P |
| 26002B20P2R1 - - - | 20 | P | 2.1 | B, C, D | P, G |
| 26002B20Q3R6 - - - | 20 | Q | 3.6 | B, C, D | P, G |
| 26002B20N110 - - - | 20 | N | 11 | J, K, M | P, G |
| 26002B20C430 - - - | 20 | C | 43 | J, K, M, N | P, G |
| 26002B20X271 - - - | 20 | X | 270 | K, M, N, P | P, G |
| 26002B20Y162 - P - | 20 | Y | 1600 | M, N, P, Z | P |
| 26002B17P1R8 - - - - | 17 | P | 1.8 | B, C, D | P, G |
| 26002B17Q3R2 - - - - | 17 | Q | 3.2 | B, C, D | P, G |
| 26002B17N9R0 - - - - | 17 | N | 9 | J, K, M | P, G |
| 26002B17C390 - - - - | 17 | C | 39 | J, K, M, N | P, G |
| 26002B17X231 - - - - | 17 | X | 230 | K, M, N, P | P, G |
| 26002B17Y142 - P - | 17 | Y | 1400 | M, N, P, Z | P |
| 26002B15P1R6 - - - - | 15 | P | 1.6 | B, C, D | P, G |
| 26002B15Q2R7 - - - - | 15 | Q | 2.7 | B, C, D | P, G |
| 26002B15N8R2 - - - - | 15 | N | 8.2 | J, K, M | P, G |
| 26002B15C330 - - - - | 15 | C | 33 | J, K, M, N | P, G |
| 26002B15X181 - - - - | 15 | X | 180 | K, M, N, P | P, G |
| 26002B15Y122 - P - | 15 | Y | 1200 | M, N, P, Z | P |
| 26002B12P0R8 - - - - | 12 | P | 0.8 | B, C, D | P, G |
| 26002B12Q1R4 - - - - | 12 | Q | 1.4 | B, C, D | P, G |
| 26002B12N4R3 - - - - | 12 | N | 4.3 | J, K, M | P, G |
| 26002B12C170 - - - - | 12 | C | 17 | J, K, M, N | P, G |
| 26002B12X101 - - - - | 12 | X | 100 | K, M, N, P | P, G |
| 26002B12Y621 - P - | 12 | Y | 620 | M, N, P, Z | P |
| 26002B10P0R1 - - - - | 10 | P | 0.1 | B, C, D | P, G |
| 26002B10Q0R2 - - - - | 10 | Q | 0.2 | B, C, D | P, G |
| 26002B10N1R1 - - - - | 10 | N | 1.1 | J, K, M | P, G |
| 26002B10C4R4 - - - - | 10 | C | 4.4 | J, K, M, N | P, G |
| 26002B10X250 - - - - | 10 | X | 25 | K, M, N, P | P, G |
| 26002B10Y151 - P - | 10 | Y | 150 | M, N, P, Z | P |

1/ Complete PIN shall include additional symbols to indicate capacitance tolerance, termination finish (if applicable), and group B testing option.

4. VERIFICATION

4.1 Qualification inspection. Qualification inspection is only required as specified (see 3.6).

4.2 Conformance inspection.

4.2.1 Inspection of product for delivery. Inspection of product for delivery shall consist of the group A inspection specified herein. Group B inspection shall be required when specified in the PIN (see 1.2).

4.2.2 Group A inspection. Group A inspection shall consist of the inspections specified in table VIII.

4.2.2.1 Subgroup 1. Subgroup 1 shall be performed on a production lot basis on 100 percent of the product supplied under this drawing. Capacitors failing the tests of this subgroup shall be removed from the lot. If, during the 100 percent inspection, screening requires that more than 8 percent of the capacitors be discarded (8 percent defective allowable (PDA)), the entire lot shall be rejected.

4.2.2.1.1 Rejected lots. Production lots exceeding the PDA of group A, subgroup 1 inspection, shall be rejected and shall not be resubmitted.

4.2.2.2 Subgroup 2. Subgroup 2 shall be performed on a production lot basis on 100 percent of the product supplied under this drawing. Capacitors not meeting the requirements of this subgroup shall be removed from the lot and shall not be supplied to this drawing.

TABLE VIII Group A inspection.

| Inspection | Requirement paragraph | Sampling procedure |
|---|---|---|
| Subgroup 1 | | |
| Capacitance | 3.3.2 | 100% inspection |
| Dissipation factor | 3.3.3 | |
| Insulation resistance | 3.3.4 | |
| Dielectric withstanding voltage | 3.3.5 | |
| Subgroup 2 | | |
| Visual examination: | 3.3.6 | 100% inspection |
| Material | 3.1.1 thru 3.1.3 | |
| Workmanship | 3.8 | |

4.2.3 Group B inspection. Group B inspection shall consist of the tests specified in table IX and shall be performed on sample units selected from lots that have passed group A inspection.

4.2.3.1 Subgroup 1. Subgroup 1 shall be performed on a production lot basis on 100 percent of the product supplied under this drawing. Capacitors failing the tests of this subgroup shall be removed from the lot. If, during the 100 percent inspection, screening requires that more than 8 percent of the capacitors be discarded (8 percent defective allowable (PDA)), the entire lot shall be rejected.

4.2.3.1.1 Rejected lots. Production lots exceeding the PDA of group B, subgroup 1 inspection, shall be rejected and shall not be resubmitted.

4.2.3.2 Disposition of sample units. Sample units that have been subjected to subgroups 3, 4, and 5 of the group B inspection shall not be delivered on the contract.

4.2.3.3 Failure in group B inspection. In the event of failures in excess of those specified in table IX, the lot shall be rejected and shall not be supplied to this drawing.

TABLE IX. Group B inspection.

| Inspection | Requirement paragraph | Number of sample units to be inspected | Number of defectives permitted |
|---|---|---|---|
| Subgroup 1 | | | |
| Thermal shock | 3.3.1 | 100% inspection | See 4.2.3.1 |
| Capacitance 1/ | 3.3.2 | | |
| Dissipation factor 1/ | 3.3.3 | | |
| Insulation resistance 1/ | 3.3.4 | | |
| Dielectric withstanding voltage 1/ | 3.3.5 | | |
| Subgroup 2 | | | |
| Mechanical examination: Physical dimensions | 3.3.6 Figure 1 | 13 | 0 |
| Subgroup 3 | | | |
| Life (1,000 hours) | 3.3.7 | 20 | 1 |
| Subgroup 4 | | 10 | 0 |
| Die shear strength | 3.3.8 | | |
| Subgroup 5 | | | |
| Temperature coefficient limits | 3.3.9 | 6 | 0 |

1/ Performed as part of the thermal shock test.

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 DLA Weapons Support (Columbus) CAGE code and PIN (see 1.2).

b. Requirements for packaging and packing (see 5.1).

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 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 Weapons Support (Columbus), ATTN: VAT, Post Office Box 3990, Columbus, OH 43218-3990 or e-mailed to capacitorfilter@dla.mil.

6.5 Changes from previous issue. Not applicable.

6.6 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 Weapons Support (Columbus), ATTN: VAT, Post Office Box 3990, Columbus, OH 43218-3990 or e-mailed to capacitorfilter@dla.mil also by telephone (614) 692-4709 or DSN 850-4709.

| Vendor name and address | Vendor CAGE | Similar designation 1/ 2/ |
|---|---|---|
| Union Technology Corporation<br>718 Monterey Pass<br>Monterey Park, CA 91754-3607 | 0YBX7 | XG2********** |

1/ Parts must be purchased to the DLA Weapons Support (Columbus) CAGE code and PIN to assure that all performance requirements and tests are met.

2/ The complete manufacturer's similar designation will include additional symbols to indicate the rated voltage, case size, dielectric type, capacitance, capacitance tolerance, and metallization type.