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| LTR | DESCRIPTION | | | | | | | DA | TE (YI | R-MO | -DA) | | APPF | ROVED | | | | | | |
| А | Drav | Drawing updated to reflect current requirements. – gt | | | | | | 04-04-29 | | | | R. M | lonnin | | | | | | | |
| В | | | tnote 1 rawing | | | | group | C end | -point | electri | cals. | | | 11-0 |)5-24 | | С | harles | F. Saff | le |
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| OF SHEETS | | | | SHE | ET | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | |
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| MICRO | NDAF DCIRC AWIN | CUIT | | CHECKED BY Michael C. Jones | | | | | COLUMBUS, OHIO 43218-3990 http://www.dscc.dla.mil | | | | | | | | | | | |
| FOR U DEPA | AILABL SE BY RTMEI | .E ´ALL NTS | | Ray | ROVE Monr | nin | | | MICROCIRCUIT, LINEAR, VOLTAGE REGULATOR, 12 VOLT, POSITIVE, FIXE MONOLITHIC SILICON | | | XED, | | | | | | | | |
| AND AGEN DEPARTMEN | | | | DRAV | | APPR(9-08-09 | | DATE | | | NOL | _1 1 1 11 | 0 01 | | | | | | | |
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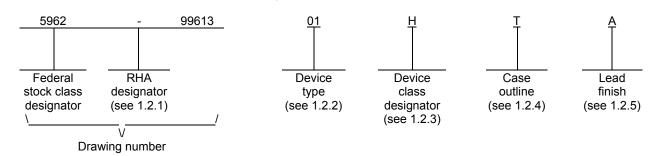
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5962-E132-11

1. SCOPE

1.1 <u>Scope</u>. This drawing documents five product assurance classes as defined in paragraph 1.2.3 and MIL-PRF-38534. A choice of case outlines and lead finishes which are available and are reflected in the Part or Identifying Number (PIN). When available, a choice of radiation hardness assurance levels are reflected in the PIN.

1.2 <u>PIN</u>. The PIN shall be as shown in the following example:



1.2.1 <u>Radiation hardness assurance (RHA) designator</u>. RHA marked devices shall meet the MIL-PRF-38534 specified RHA levels and shall be marked with the appropriate RHA designator. A dash (-) indicates a non-RHA device.

1.2.2 <u>Device type(s)</u>. The device type(s) identify the circuit function as follows:

| Device type | <u>Generic number</u> <u>1</u> / | Circuit function |
|-------------|----------------------------------|--|
| 01 | SDP7812A | Positive voltage regulator, 12 volt, fixed |

1.2.3 <u>Device class designator</u>. This device class designator shall be a single letter identifying the product assurance level. All levels are defined by the requirements of MIL-PRF-38534 and require QML Certification as well as qualification (Class H, K, and E) or QML Listing (Class G and D). The product assurance levels are as follows:

| Device class | Device performance documentation |
|--------------------------------------|---|
| к | Highest reliability class available. This level is intended for use in space applications. |
| н | Standard military quality class level. This level is intended for use in applications where non-space high reliability devices are required. |
| G | Reduced testing version of the standard military quality class. This level uses the Class H screening and In-Process Inspections with a possible limited temperature range, manufacturer specified incoming flow, and the manufacturer guarantees (but may not test) periodic and conformance inspections (Group A, B, C and D). |
| E | Designates devices which are based upon one of the other classes (K, H, or G) with exception(s) taken to the requirements of that class. These exception(s) must be specified in the device acquisition document; therefore the acquisition document should be reviewed to ensure that the exception(s) taken will not adversely affect system performance. |
| D | Manufacturer specified quality class. Quality level is defined by the manufacturers internal, QML certified flow. This product may have a limited temperature range. |
| | |
| 1/ The SDP7812A is similar to the 78 | 12A listed on Standard Microcircuit Drawing 5962-87776. |
| | SIZE |

STANDARD
MICROCIRCUIT DRAWING
DLA LAND AND MARITIME
COLUMBUS, OHIO 43218-3990SIZE
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BSHEET
2

| 1.2.4 Case outline(s). | The case outline(s) are as desig | gnated in MIL-ST | D-1835 | and as follows: | |
|---|---|--|--|--|--------------------|
| Outline letter | Descriptive designator | <u>Terminals</u> | | Package style | |
| Ν | See figure 1 | 3 | | Z-tab with nonisolate | |
| Т | See figure 1 | 3 | | (TO-257Z), with glass Flange mount with nonise | plated tab, |
| U | See figure 1 | 3 | | (TO-257), with glass Flange mount with isola | ited tab, |
| Z | See figure 1 | 3 | | (TO-257), with glass Z-tab with isolated (TO-257Z), with glass | tab, |
| 1.2.5 Lead finish. The | lead finish shall be as specified | in MIL-PRF-385 | 34. | | |
| 1.3 Absolute maximum | <u>n ratings</u> . <u>1</u> / | | | | |
| Transient Output current (I_0) Storage temperature Lead temperature (so Junction temperature Power dissipation (P ₁ $T_c = +25^{\circ}C$ $T_A = +25^{\circ}C$ Thermal resistance ju Case N and T Case U and Z Thermal resistance ju 1.4 <u>Recommended oper</u> Input voltage range | unction-to-case (θ_{JC}) : unction-to-ambient (θ_{JA}) | | +300°C +150°C 15 W 3.0 W 3.5°C/V 4.2°C/V 42°C/V +14.5 V | c <u>2</u> / to +150°C C <u>3</u> / W | |
| | JMENTS <u>ication, standards, and handboo</u> ent specified herein. Unless oth | | | | |
| the maximum levels r 2/ The 50 volt input ratin damage. Since the re input voltages under r 3/ The device is protected | bsolute maximum rating may ca nay degrade performance and a ng refers to the ability of the regu gulator's maximum current capa nominal loading. ed by a thermal shutdown circuit mperature is in excess of +150° | affect reliability. ulator to withstan ability is reduced t which is design | d high lir , the outp | ne or transient condition wi out may fall out of regulatio | thout n at high |
| | TANDARD | siz A | | | 5962-99613 |
| DLA LAN | RCUIT DRAWING ID AND MARITIME IS, OHIO 43218-3990 | | | REVISION LEVEL B | SHEET 3 |

DEPARTMENT OF DEFENSE SPECIFICATIONS

MIL-PRF-38534 - Hybrid Microcircuits, General Specification for.

DEPARTMENT OF DEFENSE STANDARDS

MIL-STD-883 - Test Method Standard Microcircuits. MIL-STD-1835 - Interface Standard for Electronic Component Case Outlines.

DEPARTMENT OF DEFENSE HANDBOOKS

MIL-HDBK-103 - List of Standard Microcircuit Drawings. MIL-HDBK-780 - Standard Microcircuit Drawings.

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

2.2 <u>Order of precedence</u>. In the event of a conflict between the text of this drawing and the references cited herein, the text of this drawing takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3. REQUIREMENTS

3.1 <u>Item requirements</u>. The individual item performance requirements for device classes D, E, G, H, and K shall be in accordance with MIL-PRF-38534. Compliance with MIL-PRF-38534 shall include the performance of all tests herein or as designated in the device manufacturer's Quality Management (QM) plan or as designated for the applicable device class. The manufacturer may eliminate, modify or optimize the tests and inspections herein, however the performance requirements as defined in MIL-PRF-38534 shall be met for the applicable device class. In addition, the modification in the QM plan shall not affect the form, fit, or function of the device for the applicable device class.

3.2 <u>Design, construction, and physical dimensions</u>. The design, construction, and physical dimensions shall be as specified in MIL-PRF-38534 and herein.

3.2.1 <u>Case outline(s)</u>. The case outline(s) shall be in accordance with 1.2.4 herein and figure 1.

3.2.2 <u>Terminal connections</u>. The terminal connections shall be as specified on figure 2.

3.3 <u>Electrical performance characteristics</u>. Unless otherwise specified herein, the electrical performance characteristics are as specified in table I and shall apply over the full specified operating temperature range.

3.4 <u>Electrical test requirements</u>. The electrical test requirements shall be the subgroups specified in table II. The electrical tests for each subgroup are defined in table I.

3.5 <u>Marking of device(s)</u>. Marking of device(s) shall be in accordance with MIL-PRF-38534. The device shall be marked with the PIN listed in 1.2 herein. In addition, the manufacturer's vendor similar PIN may also be marked.

3.6 <u>Data</u>. In addition to the general performance requirements of MIL-PRF-38534, the manufacturer of the device described herein shall maintain the electrical test data (variables format) from the initial quality conformance inspection group A lot sample, for each device type listed herein. Also, the data should include a summary of all parameters manually tested, and for those which, if any, are guaranteed. This data shall be maintained under document revision level control by the manufacturer and be made available to the preparing activity (DLA Land and Maritime -VA) upon request.

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3.7 <u>Certificate of compliance</u>. A certificate of compliance shall be required from a manufacturer in order to supply to this drawing. The certificate of compliance (original copy) submitted to DLA Land and Maritime -VA shall affirm that the manufacturer's product meets the performance requirements of MIL-PRF-38534 and herein.

3.8 <u>Certificate of conformance</u>. A certificate of conformance as required in MIL-PRF-38534 shall be provided with each lot of microcircuits delivered to this drawing.

4. VERIFICATION

4.1 <u>Sampling and inspection</u>. Sampling and inspection procedures shall be in accordance with MIL-PRF-38534 or as modified in the device manufacturer's Quality Management (QM) plan. The modification in the QM plan shall not affect the form, fit, or function as described herein.

4.2 <u>Screening</u>. Screening shall be in accordance with MIL-PRF-38534. The following additional criteria shall apply:

- a. Burn-in test, method 1015 of MIL-STD-883.
 - (1) Test condition A, B, C, or D. The test circuit shall be maintained by the manufacturer under document revision level control and shall be made available to either DLA Land and Maritime -VA or the acquiring activity upon request. Also, the test circuit shall specify the inputs, outputs, biases, and power dissipation, as applicable, in accordance with the intent specified in method 1015 of MIL-STD-883.
 - (2) T_A as specified in accordance with table I of method 1015 of MIL-STD-883.
- b. Interim and final electrical test parameters shall be as specified in table II herein, except interim electrical parameter tests prior to burn-in are optional at the discretion of the manufacturer.

4.3 <u>Conformance and periodic inspections</u>. Conformance inspection (CI) and periodic inspection (PI) shall be in accordance with MIL-PRF-38534 and as specified herein.

- 4.3.1 Group A inspection (CI). Group A inspection shall be in accordance with MIL-PRF-38534 and as follows:
 - a. Tests shall be as specified in table II herein.
 - b. Subgroups 8, 9, 10, and 11 shall be omitted.
- 4.3.2 Group B inspection (PI). Group B inspection shall be in accordance with MIL-PRF-38534.

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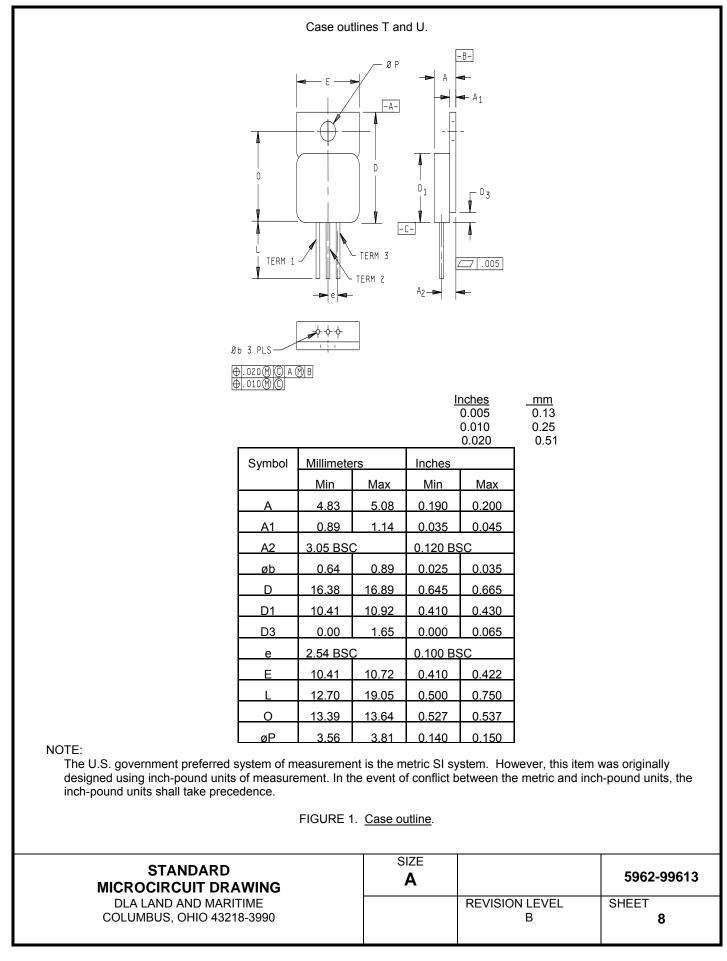
| Test | Symbol | Conditions <u>1</u> / | Group A | Device | | | Unit |
|--|--|--|-----------------|--------|-------|-------|------|
| | | $-55^{\circ}C \le T_{A} \le +125^{\circ}C$ unless otherwise specified | subgroups | type | Min | Max | |
| Output voltage | V _{OUT} | T _A = +25°C | 1 | 01 | 11.88 | 12.12 | V |
| | | V _{IN} = 14.5 V to 27 V <u>2</u> / | 1, 2, 3 | | 11.64 | 12.36 | |
| Line regulation <u>3</u> / <u>4</u> / | V _{RLINE} | V _{IN} = 14.5 V to 27 V | 1 | 01 | | 18 | mV |
| | | | 2, 3 | | | 50 | |
| | | V _{IN} = 16 V to 22 V | 1 | 01 | | 9 | mV |
| | | | 2, 3 | | | 30 | |
| Load regulation <u>3</u> / | V _{RLOAD} | $V_{IN} = 19 V,$ $I_{O} = 5.0 \text{ mA to } 1.5 \text{ A},$ $T_{A} = +25^{\circ}\text{C}$ | 1 | 01 | | 32 | mV |
| | | V _{IN} = 19 V, I _O = 5.0 mA to 1.0 A, T _A = -55°C, +125°C | 2, 3 | | | 60 | |
| | | V _{IN} = 19 V, | 1 | 01 | | 20 | mV |
| | | I _o = 250 mA to 750 mA | 2, 3 | | | 40 | |
| Standby current drain | I _{SCD} | | 1 | 01 | | 6.0 | mA |
| | | | 2, 3 | | | 6.5 | |
| Standby current drain change with line | Δ I _{SCD} (line) | V _{IN} = 15 V to 30 V | 1, 2, 3 | 01 | | 0.8 | mA |
| Standby current drain change with load | Δ I _{SCD} (load) | I _o = 5.0 mA to 1.0 A | 1, 2, 3 | 01 | | 0.5 | mA |
| Dropout voltage | V _{DO} | ΔV _{OUT} = 100 mV, I _O = 1.0 A | 1,2,3 | 01 | | 2.5 | V |
| Peak output current | l _{o(pk)} | T _A = +25°C | 1 | 01 | 1.5 | 3.3 | А |
| Short circuit current 5/ | I _{os} | V _{IN} = 35 V | 1 | 01 | | 1.2 | А |
| | | | 2, 3 | | | 2.8 | |
| Ripple rejection | $\frac{\Delta V_{IN}}{\Delta V_{OUT}}$ | $f = 120 \text{ Hz}, I_0 = 0.5 \text{ A},$ | 4 | 01 | 61 | | dB |
| | 4001 | V _{IN} = 15 V to 25 V | 5, 6 <u>6</u> / | | 54 | 1 | |

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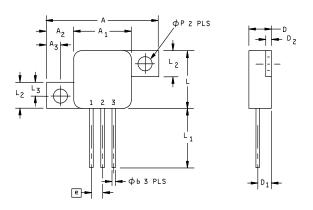
| TABLE I. Electrical performance characteristics – Continued. | | | | | | | | | | |
|--|-----------------------------------|---|--|----|--------|-----|-------------|--|--|--|
| Test | Symbol | Conditions <u>1</u> / | $\begin{array}{c c} Conditions \ \underline{1}/ & Group \ A \\ -55^{\circ}C \leq T_{A} \leq +125^{\circ}C & subgroups \\ unless \ otherwise \ specified \end{array} \begin{array}{c} Device \\ type \end{array}$ | | Limits | | Unit | | | |
| | | 71 | | | Min | Max | | | | |
| Output noise voltage <u>6</u> / | N _o | f = 10 Hz to 100 kHz, T _A = +25°C | 7 | 01 | | 40 | μV/V rms | | | |
| Long term stability <u>6</u> / | $\frac{\Delta V_{OUT}}{\Delta t}$ | t = 1000 hours, T _A = +25°C | 7 | 01 | | 75 | mV | | | |

- $\underline{1}/~$ Unless otherwise specified, $V_{\rm IN}$ = 19 V and $I_{\rm O}$ = 500 mA.
- $\underline{2}/~~I_{O}$ = 5 mA to 1.0 A, P \leq 15 W.
- 3/ All measurements except output noise voltage and ripple rejection are made at constant junction temperature and with low duty cycle.
- 4/ Minimum load current for full line regulation is 5.0 mA.
- $\underline{5}$ / Short circuit protection is only assured up to V_{IN} = 35 V.
- 6/ If not tested, shall be guaranteed to the limits specified in table I.

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Case outlines N and Z.



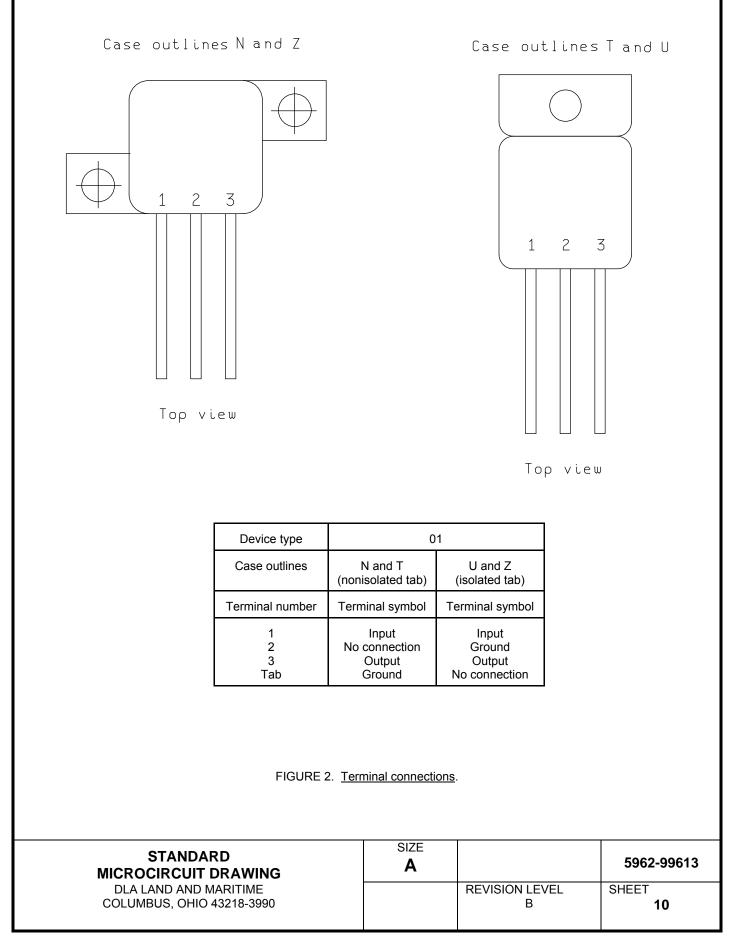
| Symbol | Millimete | ers | Inches | |
|--------|-----------|-------|----------|-------|
| | Min | Max | Min | Max |
| А | 23.11 | 23.37 | 0.910 | 0.920 |
| A1 | 10.41 | 10.67 | 0.410 | 0.420 |
| A2 | 6.22 | 6.48 | 0.245 | 0.255 |
| A3 | 3.05 | 3.30 | 0.120 | 0.130 |
| øb | 0.71 | 0.81 | 0.028 | 0.032 |
| D | 4.70 | 5.59 | 0.135 | 0.220 |
| D1 | 2.92 | 3.18 | 0.115 | 0.125 |
| D2 | 0.89 | 1.14 | 0.035 | 0.045 |
| е | 2.54 BS0 | C | 0.100 BS | SC |
| L | 10.41 | 10.67 | 0.410 | 0.420 |
| L1 | 12.70 | 19.05 | 0.500 | 0.750 |
| L2 | 6.22 | 6.48 | 0.245 | 0.255 |
| L3 | 3.05 | 3.30 | 0.120 | 0.130 |
| øP | 3.05 | 3.30 | 0.120 | 0.130 |

NOTE:

The U.S. government preferred system of measurement is the metric SI system. However, this item was originally designed using inch-pound units of measurement. In the event of conflict between the metric and inch-pound units, the inch-pound units shall take precedence.

FIGURE 1. Case outline(s) - Continued.

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| MIL-PRF-38534 test requirements | Subgroups (in accordance with MIL-PRF-38534, group A test table) |
|--|---|
| Interim electrical parameters | 1 |
| Final electrical parameters | 1*, 2, 3, 4 |
| Group A test requirements | 1, 2, 3, 4, 5**, 6**, 7** |
| Group C end-point electrical <u>1</u> / parameters | 1,2,3 |
| End-point electrical parameters for Radiation Hardness Assurance (RHA) devices | Not applicable |

TABLE II. Electrical test requirements.

- 1/ As a minimum, for all Group C testing performed after (11-05-24) manufacturers shall perform subgroups 1, 2, and 3 from the Group A electrical test table (Table C-Xa of MIL-PRF-38534).
- ** Subgroups 5, 6, and 7, if not tested shall be guaranteed to the limits specified in table I.

4.3.3 <u>Group C inspection (PI)</u>. Group C inspection shall be in accordance with MIL-PRF-38534 and as follows:

- a. End-point electrical parameters shall be as specified in table II herein.
- b. Steady-state life test, method 1005 of MIL-STD-883.
 - (1) Test condition A, B, C, or D. The test circuit shall be maintained by the manufacturer under document revision level control and shall be made available to either DLA Land and Maritime -VA or the acquiring activity upon request. Also, the test circuit shall specify the inputs, outputs, biases, and power dissipation, as applicable, in accordance with the intent specified in method 1005 of MIL-STD-883.
 - (2) T_A as specified in accordance with table I of method 1005 of MIL-STD-883.
 - (3) Test duration: 1,000 hours, except as permitted by method 1005 of MIL-STD-883.
- 4.3.4 Group D inspection (PI). Group D inspection shall be in accordance with MIL-PRF-38534.
- 4.3.5 Radiation Hardness Assurance (RHA) inspection. RHA inspection is not currently applicable to this drawing.
- 5. PACKAGING
- 5.1 <u>Packaging requirements</u>. The requirements for packaging shall be in accordance with MIL-PRF-38534.

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| | | REVISION LEVEL B | SHEET 11 |

6. NOTES

6.1 <u>Intended use</u>. Microcircuits conforming to this drawing are intended for use for Government microcircuit applications (original equipment), design applications, and logistics purposes.

6.2 <u>Replaceability</u>. Microcircuits covered by this drawing will replace the same generic device covered by a contractorprepared specification or drawing.

6.3 <u>Configuration control of SMD's</u>. All proposed changes to existing SMD's will be coordinated as specified in MIL-PRF-38534.

6.4 <u>Record of users</u>. Military and industrial users shall inform DLA Land and Maritime when a system application requires configuration control and the applicable SMD. DLA Land and Maritime will maintain a record of users and this list will be used for coordination and distribution of changes to the drawings. Users of drawings covering microelectronic devices (FSC 5962) should contact DLA Land and Maritime -VA, telephone (614) 692-0544.

6.5 <u>Comments</u>. Comments on this drawing should be directed to DLA Land and Maritime -VA, Columbus, Ohio 43218-3990, or telephone (614) 692-1081.

6.6 <u>Sources of supply</u>. Sources of supply are listed in MIL-HDBK-103 and QML-38534. The vendors listed in MIL-HDBK-103 and QML-38534 have submitted a certificate of compliance (see 3.7 herein) to DLA Land and Maritime -VA and have agreed to this drawing.

| STANDARD MICROCIRCUIT DRAWING DLA LAND AND MARITIME COLUMBUS, OHIO 43218-3990 | SIZE A | | 5962-99613 |
|--|-----------|---------------------|-------------|
| | | REVISION LEVEL B | SHEET 12 |

STANDARD MICROCIRCUIT DRAWING BULLETIN

DATE: 11-05-24

Approved sources of supply for SMD 5962-99613 are listed below for immediate acquisition information only and shall be added to MIL-HDBK-103 and QML-38534 during the next revisions. MIL-HDBK-103 and QML-38534 will be revised to include the addition or deletion of sources. The vendors listed below have agreed to this drawing and a certificate of compliance has been submitted to and accepted by DLA Land and Maritime -VA. This information bulletin is superseded by the next dated revisions of MIL-HDBK-103 and QML-38534. DLA Land and Maritime maintains an online database of all current sources of supply at http://www.dscc.dla.mil/Programs/Smcr/.

| Standard | Vendor | Vendor |
|---------------------------|--------|----------------|
| microcircuit drawing | CAGE | similar |
| PIN <u>1</u> / <u>2</u> / | number | PIN <u>3</u> / |
| 5962-9961301HNA | 21845 | SDP7812ANHD |
| 5962-9961301HNC | 21845 | SDP7812ANHG |
| 5962-9961301HTA | 21845 | SDP7812ATHD |
| 5962-9961301HTC | 21845 | SDP7812ATHG |
| 5962-9961301HUA | 21845 | SDP7812AUHD |
| 5962-9961301HUC | 21845 | SDP7812AUHG |
| 5962-9961301HZA | 21845 | SDP7812AZHD |
| 5962-9961301HZC | 21845 | SDP7812AZHG |

1/ The lead finish shown for each PIN, representing a hermetic package, is the most readily available from the manufacturer listed for that part. If the desired lead finish is not listed contact the Vendor to determine availability.

2/ The SMD device types listed above are similar to the device types listed on SMD 5962-87776. 5962-9961301HTA or C is similar to 5962-8777601TX. 5962-9961301HUA or C is similar to 5962-8777601UX.

<u>3</u>/ <u>Caution</u>. Do not use this number for item acquisition. Items acquired to this number may not satisfy the performance requirements of this drawing.

Vendor CAGE number Vendor name and address

21845

Solitron Devices, Incorporated 3301 Electronics Way West Palm Beach, FL 33407-4697

The information contained herein is disseminated for convenience only and the Government assumes no liability whatsoever for any inaccuracies in the information bulletin.