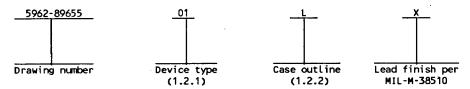
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DESC FORM 193 SEP 87

*U.S. GOVERNMENT PRINTING OFFICE: 1987 - 748-129/60911

1. SCOPE

- 1.1 <u>Scope</u>. This drawing describes device requirements for class B microcircuits in accordance with 1.2.1 of MIL-STD-883, "Provisions for the use of MIL-STD-883 in conjunction with compliant non-JAN devices".
 - 1.2 Part number. The complete part number shall be as shown in the following example:



1.2.1 <u>Device types</u>. The device types shall identify the circuit function as follows:

| Device type | Generic number | <u>Circuit function</u> | Linearity | Conversion time (max) |
|-------------|----------------|-------------------------|-----------|-----------------------|
| 01 | AD7672TQ10 | 12-bit CMOS ADC | 11-bit | 10 μs |
| 02 | AD7672UQ10 | 12-bit CMOS ADC | 12-bit | 10 μs |
| 03 | AD7672TQ05 | 12-bit CMOS ADC | 11-bit | 5.0 μs |
| 04 | AD7672UQ05 | 12-bit CMOS ADC | 12-bit | 5.0 μs |

1.2.2 <u>Case outline</u>. The case outline shall be as designated in appendix C of MIL-M-38510, and as follows:

Outline letter

Case outline

L

D-9 (24-lead, 1.280" x .310" x .200"), dual-in-line package

1.3 Absolute maximum ratings.

| V _{DD} to DGND | -0.3 V dc to +7.0 V dc |
|--|--|
| V _{SS} to DGND | +0.3 V dc to -17 V dc |
| AGND to DGND | -0.3 V dc to $V_{\overline{DD}}$ +0.3 V dc |
| A _{IN1} , A _{IN2} to AGND | -15 V dc to +15 V dc |
| Digital in <u>pu</u> t <u>vo</u> ltage to DGND: (CLK _{IN} , CS, RD) | -0.3 V dc to V _{DO} +0.3 V dc |
| Digital outpu <u>t vo</u> ltage to DGND: (D _{B11} -D _{B0} , BUSY, CLK _{OUT}) | -0.3 V dc to V _{DD} +0.3 V dc |
| Storage temperature range | -65°C to +150°C |
| Lead temperature (soldering, 10 seconds) | +300°C |
| Power dissipation (PD) TA ≤ 75°C | 1.0 W <u>1</u> / |
| Thermal resistance, junction-to-case (Θ_{JC}) | See MIL-M-38510, appendix C |
| Junction temperature (T _J) | +175°C |

 $\underline{1}$ / Derate above T_A = +75°C at 10 mW/°C.

STANDARDIZED MILITARY DRAWING

DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO 45444

| SiZE A | | 5962-89 | 9655 | |
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1.4 Recommended operating conditions. Operating voltage range: Positive supply $(V_{\overline{DD}})$ -+4.75 V dc to +5.25 V dc Negative supply (V_{SS}) - --10.8 V dc to -13.2 V dc Clock frequency (f_{CLK}): Device types 01 and 02 - - - - - - - - - - -1.25 MHz Device types 03 and 04 - - - - - - - - - - -2.5 MHz Reference input voltage - - - - - - - - - - - - --5.0 V dc Analog input voltage ranges (A_{IN}) (applies to slow memory mode) ------0 to +5.0 V dc, 0 to + 10 V dc and ±5.0 V dc Operating ambient temperature range (T_A) - - - - - - --55°C to +125°C 2. APPLICABLE DOCUMENTS 2.1 Government specification, standard, and bulletin. Unless otherwise specified, the following specification, standard, and bulletin of the issue listed in that issue of the Department of Defense Index of Specifications and Standards specified in the solicitation, form a part of this drawing to the extent specified herein. SPECIFICATION MILITARY MIL-M-38510 - Microcircuits, General Specification for. STANDARD MILITARY MIL-STD-883 - Test Methods and Procedures for Microelectronics. BULLETIN MILITARY MIL-BUL-103 - List of Standardized Military Drawings (SMD's). (Copies of the specification, standard, and bulletin required by manufacturers in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting activity.) 2.2 Order of precedence. In the event of a conflict between the text of this drawing and the

references cited herein, the text of this drawing shall take precedence.

3. REQUIREMENTS

3.1 <u>Item requirements</u>. The individual item requirements shall be in accordance with 1.2.1 of MIL-STD-883, "Provisions for the use of MIL-STD-883 in conjunction with compliant non-JAN devices" and as specified herein.

| STANDARDIZED MILITARY DRAWING | SIZE A | SIZE 5962-89655 | | | | |
|---|------------------|-----------------|----------------|---|-------|---|
| DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO 45444 | | | REVISION LEVEL | • | SHEET | 3 |

- 3.2 <u>Design, construction, and physical dimensions</u>. The design, construction, and physical dimensions shall be as specified in MIL-M-38510 and herein.
 - 3.2.1 <u>Terminal connections</u>. The terminal connections shall be as specified on figure 1.
 - 3.2.2 Case outline. The case outline shall be in accordance with 1.2.2 herein.
- 3.3 <u>Electrical performance characteristics</u>. Unless otherwise specified herein, the electrical performance characteristics are as specified in table I and apply over the full ambient 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 described in table I.
- 3.5 <u>Marking</u>. Marking shall be in accordance with MIL-STD-883 (see 3.1 herein). The part shall be marked with the part number listed in 1.2 herein. In addition, the manufacturer's part number may also be marked as listed in MIL-BUL-103 (see 6.6 herein).
- 3.6 <u>Certificate of compliance</u>. A certificate of compliance shall be required from a manufacturer in order to be listed as an approved source of supply in MIL-BUL-103 (see 6.6 herein). The certificate of compliance submitted to DESC-ECS prior to listing as an approved source of supply shall affirm that the manufacturer's product meets the requirements of MIL-STD-883 (see 3.1 herein) and the requirements herein.
- 3.7 <u>Certificate of conformance</u>. A certificate of conformance as required in MIL-STD-883 (see 3.1 herein) shall be provided with each lot of microcircuits delivered to this drawing.
- 3.8 <u>Notification of change</u>. Notification of change to DESC-ECS shall be required in accordance with MIL-STD-883 (see 3.1 herein).
- 3.9 <u>Verification and review</u>. DESC, DESC's agent, and the acquiring activity retain the option to review the manufacturer's facility and applicable required documentation. Offshore documentation shall be made available onshore at the option of the reviewer.

| STANDARDIZED MILITARY DRAWING DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO 45444 | SIZE A | | 5962-896 | 655 | |
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| TARIF | ı | FI | ectrical | perform | ance c | hars | ctor | etice |
|-------|---|----|----------|---------|--------|------|------|-------|
| | | | | | | | | |

| Test | Symbol | Conditions -55°C ≤ T _A ≤ | 1/ | Device | Group A | Limits | | Unit |
|--|--|--|------------------|--------|-----------|--------|-------|------|
| | | -55°C ≤ T _A ≤ unless otherwise | | type | subgroups | Min | Max | |
| Digital input low voltage | v_{INL} \overline{CS} , \overline{RD} , CLK_{IN} , $V_{DD} = 4.75 \text{ V}$, $v_{SS} = -12 \text{ V}$ | | | All | 1,2,3 | 0.8 | | v |
| Digital input high voltage | vigital input high voltage V_{INH} \overline{CS} , \overline{RD} , CLK_{IN} , $V_{DD} = 4.75$, $V_{SS} = -12 \text{ V}$ | | ALL | 1,2,3 | 2.4 | | v | |
| Analog input current (unipolar) | I IN1 | Input ranges = 0 V or 0 V to 10 V | to 5.0 V | ALL | 1,2,3 | | 3.5 | mA |
| Analog input current (bipolar) | I IN2 | Input range = ±5.0 | V | All | 1,2,3 | | ±1.75 | mA |
| Reference input current | IREF | V _{DD} = 5.0 V, V _{SS} = -12 V | | All | 1,2,3 | -3.0 | | μΑ |
| Digital input current | I IN | V _{DD} = 5.25 V, V _{SS} = -12 V, A _{IN} = 0 to V _{DD} | CS, RD | ALL | 1,2,3 | | ±10 | μΑ |
| | | AIN = 0 to V _{DD} | CLKIN | All | 1,2,3 | | ±20 | μА |
| Digital output low voltage | v _{oL} | D _{B11} -D _{B0} , BUSY, CL V _{DD} = 4.75 V, V _S = 12 V, I _{SINK} = 1.6 mA | K _{out} | ALL | 1,2,3 | | 0.4 | v |
| Digital output high voltage | v _{ОН} | D _{B11} -D _{B0} , BUSY, CL V _{D0} =4.75 V, V _{SS} =012 V I _{SOURCE} = 200 μA | K _{out} | All | 1,2,3 | 4.0 | | ٧ |
| Floating state leakage current current | ^I LKG | D _{B11} - D _{B0} , V _{SS} = 15 V, V _{DD} = | 5.25 V | All | 1,2,3 | | ±10 | μΑ |
| Integral linearity error | LE | v _{DD} = 5.0 v, v _{SS} = | -12 V, | 01,03 | 1,2,3 | | ±1.0 | LS |
| | | Input range = ±5.0 | v . | 02,04 | 1,2,3 | | ±1.0 | : |
| | | | | 02,04 | 1,2,12 | | ±0.5 | |

See footnotes at end of table.

STANDARDIZED MILITARY DRAWING

DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO 45444

| SIZE A | A | | 5962-89 | 655 | |
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| | | REVISION LEVEL | • | SHEET | 5 |

TABLE I. $\underline{\mathsf{Electrical}}$ performance characteristics - Continued.

| Test | Symbol | Conditions <u>1</u> / -55°C ≤ T _A ≤ +125°C | Device | | Lin | mits_ | Unit |
|---|------------------|--|--------|-----------|-----|-------|------|
| | | -55°C ≤ T _A ≤ +125°C unless otherwise specified | type | subgroups | Min | Max | |
| Differential linearity error | DLE | v _{DD} = 5.0 v, v _{SS} = -12 v | All | 1,2,3 | | ±0.9 | LSB |
| Power supply current from V _{DD} | IDD | CS = RD = BUSY = HIGH, VDD = 5.25 V, VSS = -13.2 V, AIN1 = 5.0 V = AIN2 | All | 1,2,3 | , | 7.0 | mA |
| Power supply current from V _{SS} | I ss | AIN1 = 5.0 V = AIN2 | | | | -12 | |
| Unipolar offset error | v _{os} | v _{DD} = 5.0 v, v _{ss} = -12 v, | All | 1 | | ±5.0 | LSB |
| | | Input range = 0 V to 5.0 V or 0 V to 10 V | 01,03 | 2,3 | | ±6.0 | |
| | | | 02,04 | | | ±4.0 | |
| | | | 02,04 | 12 | | ±3.0 | |
| Unipolar full scale error | AE | v _{DD} = 5.0 v, v _{SS} = -12 v, | ALL | 1 | | ±5.0 | LSB |
| | | Input range = 0 V to 5.0 V or 0 V to 10 V | 01,03 | 2,3 | | £7.0 | |
| | | · | 02,04 | | | ±6.0 | |
| | | | 02,04 | 12 | | ±3.0 | |
| Bipolar zero error | B _{PZE} | V _{DD} = 5.0 V, V _{SS} = -12 V, | ALL | 1 | | ±5.0 | LSB |
| • | | Input range = ±5.0 V | 01,03 | 2,3 | | ±6.0 | |
| | | | 02,04 | | | ±4.0 | |
| | | | 02,04 | 12 | | ±3.0 | |

See footnotes at end of table.

| STANDARDIZED MILITARY DRAWING DEFENSE ELECTRONICS SUPPLY CENTER DAYTON ONLO 45444 | SIZE A | | 5962-89 | 655 | |
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TABLE I. <u>Electrical performance characteristics</u> - Continued.

| | | | | · | | | | |
|--|--------------------|---|---|--------|-----------|-----------|------|-------------|
| Test | Symbol | | itions 1/ | Device | | <u>Li</u> | nits | Unit |
| | | | T _A ≤ +125°C erwise specified | type | subgroups | Min | Max | |
| Bipolar gain error | BPAE | V _{DD} = 5.0 V, V _{SS} = -12 V, | | ALL | 1 . | | ±5.0 | LSE |
| | | Input range | = ±5.0 V | 01,03 | 2,3 | | ±7.0 | ! ! |
| | | | | 02,04 | | | ±6.0 | |
| | | | | 02.04 | 12 | | ±4.0 | |
| Digital input capacitance <u>2</u> / | CIN | CS, RD, CLK, V _{DD} = 4.75, T _A +25°C | N' _{SS} = -12 V, | All | 4 | | 10 | рF |
| Floating state output capacitance <u>2</u> / | солт | T _A = +25°C | | All | 4 | | 15 | рF |
| Conversion time using synchronous clock | t _{CONV1} | See figures | 2,3 | 01,02 | 9,10,11 | | 10 | μs |
| | | | | 03,04 | | | 5.0 | İ |
| Conversion time using asynchronous clock | t _{CONV2} | ע | | 01,02 | 9,10,11 | 9.6 | 10.4 | |
| | _ | | | 03,04 | | 4.8 | 5.2 | |
| CS to RD setup time | t ₁ | See figures | 4,5 <u>3</u> / | All | 9,10,11 | 0 | | ns |
| RD to BUSY propagation delay | t ₂ | See figures | 2,3 <u>3</u> / | ALL | 9 | | 190 | ns |
| | | | | | 10,11 | | 270 | |
| Data access time after RD | t ₃ | See figures 2,3,4 | c _L = 60 pF | All | 9 | | 110 | ns |
| | | 4/ | | | 10,11 | | 150 | |
| | | | C _L = 100 pF | ALL | 9 | | 125 | ns |
| | | | | | 10,11 | | 170 | |
| | | | · | | <u> </u> | | | |

See footnotes at end of table.

STANDARDIZED MILITARY DRAWING DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO 45444 SIZE A FREVISION LEVEL SHEET 7

TABLE I. <u>Electrical performance characteristics</u> - Continued.

| Test | Symbol | Conditions $\frac{1}{4}$ -55°C \leq T _A \leq +125°C unless otherwise specified | | Device | Group A | Limits_ | | Unit |
|--|----------------|---|-----------------------|--------|-----------|----------------|-----|------|
| | | | | type | subgroups | Min | Max | |
| RD pulse width | t ₄ | See figures 2,3 | <u>3</u> / | ALL | 9,10,11 | t ₃ | | ns |
| CS to RD hold time | t ₅ | See figures 2,3 | <u>3</u> / | Att | 9,10,11 | , 0 | | ns |
| Data setup time after BUSY | t ₆ | C ₁ = 60 pF, See figures 2,3,4 | <u>3</u> / <u>4</u> / | All | 9 | | 70 | ns |
| | | | | | 10,11 | | 100 | |
| Bus relinquish time | t ₇ | See figures 2,3,5 | <u>5</u> / | All | 9 | 28 | 83 | ns |
| | | | | | 10,11 | 20 | 90 | , |
| Delay between successive read operations | t ₈ | | <u>3</u> / · | All | 9,10,11 | 200 | | ns |

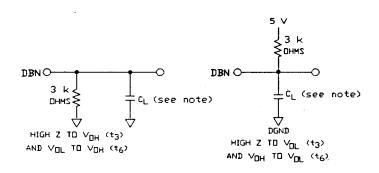
- $\underline{1}$ / Conversion time using asynchronous clock is measured by setting the clock frequency at the appropriate value (see 1.4) and checking all remaining tested specifications.
- $\underline{2}$ / If not tested, shall be guaranteed to the limits specified in table I.
- $\frac{3}{2}$ All input control signals are specified with t = t = 5 ns (10% to 90% of +5.0 V) and timed from a voltage level of 1.6 V. Time t and t are measured only for the initial test and after process or design changes which may affect switching parameters.
- $\underline{4}/$ Time t₃ and t₆ are measured with the load circuits of figure 4 and defined as the time required for an output to cross 0.8 V or 2.4 V.
- $\frac{5}{7}$ Time t₇ is defined as the time required for the data lines to change 0.5 V when loaded with the circuits of figure 5. t₇ is tested at +25°C, with C_L = 60 pF.

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| Device types | 01,02,03, and 04 |
|--|---|
| Case outline | L |
| Terminal number | Terminal symbol |
| 1 2 | AIN1 VREF |
| 3 4 5 6 7 8 9 10 | AGND DB11 (MSB) DB10 DB10 DB9 DB8 DB7 DB6 DB5 DB5 |
| 12 13 14 15 16 | DGND DB3 DB2 DB1 DB0 (LSB) |
| 17 18 19 20 21 22 23 24 | CLKIN CLKOUT RD CS BUSY V SS VDD AIN2 |

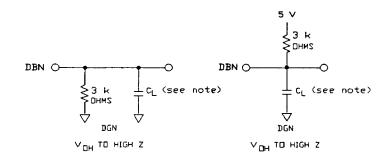
FIGURE 1. <u>Terminal connections</u>.

STANDARDIZED MILITARY DRAWING DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO 45444 SIZE A 5962-89655 REVISION LEVEL SHEET 9



NDTE: $C_L = Load$ capacitance and includes scope and jig capacitance.

FIGURE 2. Load circuit for access time.



NDTE: $C_L = Load$ capacitance and includes scope and jig capacitance.

FIGURE 3. Load circuit for bus relinquish time.

| STANDARDIZED MILITARY DRAWING | SIZE A | 5962-89655 | | | | | |
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| DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO 45444 | | REVISION LEVEL | • | SHEET | 10 | | |

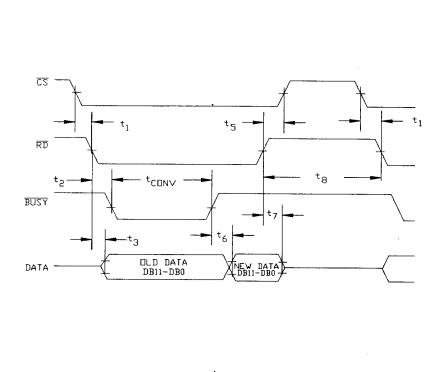
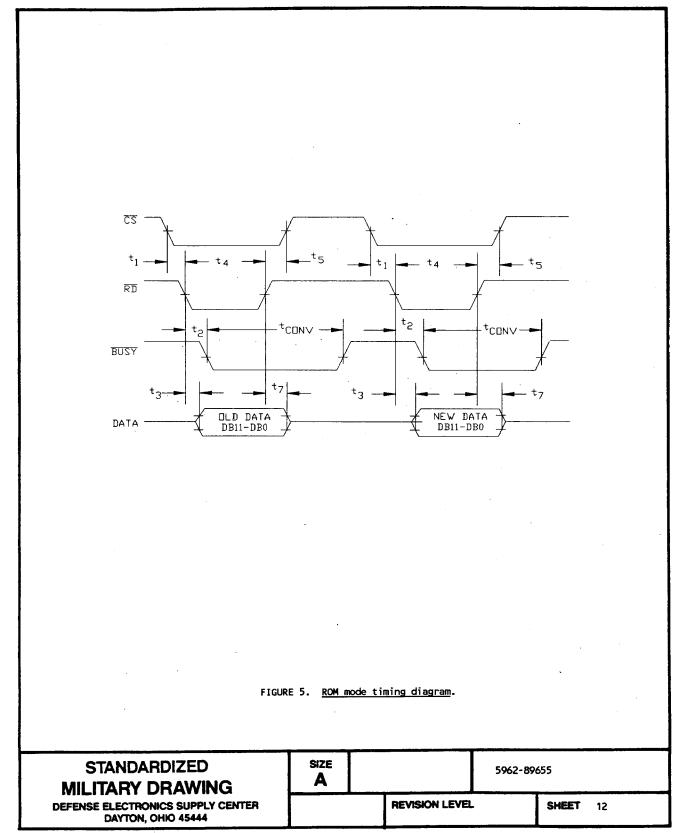


FIGURE 4. Slow memory mode timing diagram.

| STANDARDIZED MILITARY DRAWING | SIZE A | | 5962-89 | 655 | |
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4. QUALITY ASSURANCE PROVISIONS

- 4.1 <u>Sampling and inspection</u>. Sampling and inspection procedures shall be in accordance with section 4 of MIL-M-38510 to the extent specified in MIL-STD-883 (see 3.1 herein).
- 4.2 <u>Screening</u>. Screening shall be in accordance with method 5004 of MIL-STD-883, and shall be conducted on all devices prior to quality conformance inspection. The following additional criteria shall apply:
 - a. Burn-in test, method 1015 of MIL-STD-883.
 - (1) Test condition A, B, C, or D using the circuit submitted with the certificate of compliance (see 3.6 herein).
 - (2) $T_A = +125$ °C, minimum.
 - 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.
 - c. Subgroup 12 test is used for grading and part selection at T_A = +25°C and is not included in PDA calculations.
- 4.3 <u>Quality conformance inspection</u>. Quality conformance inspection shall be in accordance with method 5005 of MIL-STD-883 including groups A, B, C, and D inspections. The following additional criteria shall apply.

4.3.1 Group A inspection.

- a. Tests shall be as specified in table II herein.
- b. Subgroups 5, 6, 7, and 8 in table I, method 5005 of MIL-STD-883 shall be omitted.
- c. Subgroup 4 (C_{IN} and C_{OUT} measurements) shall be measured only for the initial test and after process or design changes which may affect capacitance. A minimum sample size of 15 devices with zero rejects shall be required.
- d. Subgroup 12 test is used for grading and part selection at T_{A} = +25°C and is not included in PDA calculations.

4.3.2 Groups C and D inspections.

- a. End-point electrical parameters shall be as specified in table II herein.
- b. Steady-state life test conditions, method 1005 of MIL-STD-883.
 - Test condition A, B, C, or D using the circuit submitted with the certificate of compliance (see 3.6 herein).
 - (2) $T_A = +125$ °C, minimum.
 - (3) Test duration: 1,000 hours, except as permitted by method 1005 of MIL-STD-883.

| STANDARDIZED MILITARY DRAWING | SIZE A | | | | |
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TABLE II. Electrical test requirements.

| MIL-STD-883 test requirements | Subgroups (per method 5005, table I) |
|--|--|
| Interim electrical parameters (method 5004) | 1 |
| Final electrical test parameters (method 5004) | 1*,2,3,12 |
| Group A test requirements (method 5005) | 1,2,3,4,9,10**, 11**,12 |
| Groups C and D end-point electrical parameters (method 5005) | 1 |

* PDA applies to subgroup 1.

** Subgroups 10 and 11, if not tested, shall be guaranteed to the limits specified in table I.

5. PACKAGING

5.1 <u>Packaging requirements</u>. The requirements for packaging shall be in accordance with MIL-M-38510.

6. NOTES

- 6.1 <u>Intended use</u>. Microcircuits 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. When a military specification exists and the product covered by this drawing has been qualified for listing on QPL-38510, the device specified herein will be inactivated and will not be used for new design. The QPL-38510 product shall be the preferred item for all applications.
- 6.2 <u>Replaceability</u>. Microcircuits covered by this drawing will replace the same generic device covered by a contractor-prepared specification or drawing.
- 6.3 <u>Configuration control of SMD's</u>. All proposed changes to existing SMD's will be coordinated with the users of record for the individual documents. This coordination will be accomplished in accordance with MIL-STD-481 using DD Form 1693, Engineering Change Proposal (Short Form).

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DEFENSE ELECTRONICS SUPPLY CENTER
DAYTON, OHIO 45444

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- 6.4 <u>Record of users</u>. Military and industrial users shall inform Defense Electronics Supply Center when a system application requires configuration control and the applicable SMD. DESC 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 microelectronics devices (FSC 5962) should contact DESC-ECS, telephone (513) 296-6022.
- 6.5 <u>Comments</u>. Comments on this drawing should be directed to DESC-ECS, Dayton, Ohio 45444, or telephone (513) 296-5375.
- 6.6 Approved source of supply. An approved source of supply is listed MIL-BUL-103. Additional sources will be added to MIL-BUL-103 as they become available. The vendor listed in MIL-BUL-103 has agreed to this drawing and a certificate of compliance (see 3.6 herein) has been submitted to and accepted by DESC-ECS. The approved source of supply listed below is for information purposes only and is current only to the date of the last action of this document.

| Military drawing part number | Vendor CAGE number | Vendor similar part number <u>1</u> / |
|---------------------------------|--------------------------|---|
| 5962-8965501LX | 24355 | AD7672TQ10/883B |
| 5962-8965502LX | 24355 | AD7672UQ10/883B |
| 5962-8965503LX | 24355 | AD7672TQ05/883B |
| 5962-8965504LX | 24355 | AD7672UQ05/883B |

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

Vendor CAGE number Vendor name and address

24355

Analog Devices One Technology Way Norwood, MA 02062-9106

| STANDARDIZED | | | | | | |
|-----------------|---------|--|--|--|--|--|
| MILITARY | DRAWING | | | | | |

DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO 45444

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REVISION LEVEL

SHEET