|           |                       |     |              |             |            |              |                 |              |       |        | RE   | VISI     | ONS | 3            |           |     |      |             |      |       |          |          |              |          |       |          |
|-----------|-----------------------|-----|--------------|-------------|------------|--------------|-----------------|--------------|-------|--------|------|----------|-----|--------------|-----------|-----|------|-------------|------|-------|----------|----------|--------------|----------|-------|----------|
| LTR       |                       |     |              |             |            |              | ا               | DESC         | CRIP  | TION   |      |          |     |              |           |     |      |             | DAT  | E (YR | -MO-     |          | L            |          | OVED  |          |
| А         | 1.3,<br>Edit          | ab  | solu<br>al d | ite<br>:han | max<br>ges | imum<br>thro | rat<br>ough     | ings<br>out. | i, cl | hang   | e ii | nput     | vo  | ltag         | je r      | ang | е.   |             | 199  | 0 AI  | IG 1     | 4        | W            | ck       | mor   | >        |
|           |                       |     |              |             |            |              |                 |              |       |        |      |          |     |              |           |     |      |             |      |       |          |          |              |          |       |          |
| REV       | I                     |     |              |             |            |              |                 |              |       |        |      |          |     |              |           |     |      |             |      |       |          |          |              |          |       |          |
| SHEET     |                       |     |              |             |            |              |                 |              |       |        |      |          |     |              |           |     |      |             |      |       |          |          |              |          |       |          |
| REV       |                       |     |              |             |            |              |                 |              |       |        |      | <u> </u> |     |              |           |     |      |             | L    | ļ     | L        | <u> </u> |              |          | ldash |          |
| SHEET     |                       |     |              |             |            |              |                 |              | _     |        |      |          |     |              |           |     |      |             |      |       | _        | <u> </u> | _            |          |       | -        |
| REV STA   |                       | ┢   | RE           |             |            | A            | Α               | Α            | -     |        |      |          |     |              |           | Α   | Α    | Α           |      |       | <u> </u> | ┢        | -            | <u> </u> | -     | $\vdash$ |
| PMIC N/   | A<br>IDAF             |     | ZE           | D           |            | ز            | PARE<br>Bracket | g<br>BY      | a.    | 5<br>1 | 6    | 7        | 8   | 9            | 10        | DEF | ENSI | E ELI<br>DA | YTOI | N, OH | 110 4    | 5444     | )<br>        |          | R     |          |
|           | ILITA<br>RAW<br>AWING | /IN | G            | BLE         |            |              | ROV             | В            |       |        |      |          | ,   |              | BIDI      | REC |      | IAL         | TRAN | SCE   | IVEF     | BIPO     | LAR,<br>MONO | LITI     | 1IC   |          |
| FOR USE E | BY ALL<br>AGENC       | DEP | ARTI         | MENT<br>IE  |            |              |                 | MARC         | н 1   |        | 41 E |          |     | $\downarrow$ | SIZE<br>A |     |      |             | :68  |       |          | 59       | 62           | - 8      | 886   | 04       |
| AMSC      | N/A                   |     |              |             |            |              |                 | •            |       | A      |      |          |     | L            |           | SHE | ET   |             | :    |       |          |          |              |          | 1     |          |

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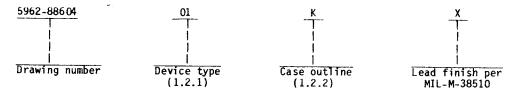
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DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

## SCOPE

1.1~Scope. This drawing describes device requirements for class B microcircuits in accordance with  $1.\overline{2.1}$  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 Device types. The device types shall identify the circuit function as follows:

| Device type | Generic number | Circuit function   |
|-------------|----------------|--|
| 01          | 29861A         | High performance 10-bit bidirectional transceiver, three-state |
| 02          | 29863A         | High performance 9-bit bidirectional transceiver, three-state  |

1.2.2 Case outlines. The case outlines shall be as designated in appendix C of MIL-M-38510, and as follows:

| Outline letter | Case outline  |
|----------------|---|
| K              | F-6 (24-lead, .640" x .420" x .090"), flat package                    |
| Ł              | D-9 (24-lead, 1.280" x .310" x .200"), dual in line package           |
| 3              | C-4 (28-terminal, .460" x .460" x .100"), square chip carrier package |

1.3 Absolute maximum ratings.

1.4 Recommended operating conditions.

 $\overline{1/}$  Must withstand the added PD due to short circuit test; e.g.,  $I_{OS}$ .

| STANDARDIZED MILITARY DRAWING                           | SIZE<br><b>A</b> |                | 596 | 52-88604 |
|---|------------------|----------------|-----|----------|
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## 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

MI L-BUL-103

- List of Standardized Military Drawing (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.

## REQUIREMENTS

- 3.1 Item requirements. 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.
- 3.2 Design, construction, and physical dimensions. The design, construction, and physical dimensions shall be as specified in MIL-M-38510 and herein.
  - 3.2.1 <u>Terminal</u> connections. The terminal connections shall be as specified on figure 1.
  - 3.2.2 <u>Truth tables</u>. The truth tables shall be as specified on figure 2.
  - 3.2.3 Logic diagrams. The logic diagrams shall be as specified on figure 3.
  - 3.2.4 Case outlines. The case outlines shall be in accordance with 1.2.2 herein.
- 3.3 Electrical performance characteristics. Unless otherwise specified herein, the electrical performance characteristics are as specified in table I and apply over the full case operating temperature range.
- 3.4 Electrical test requirements. 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 Marking. 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).

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|---|------------------|----------------|-----|----------|
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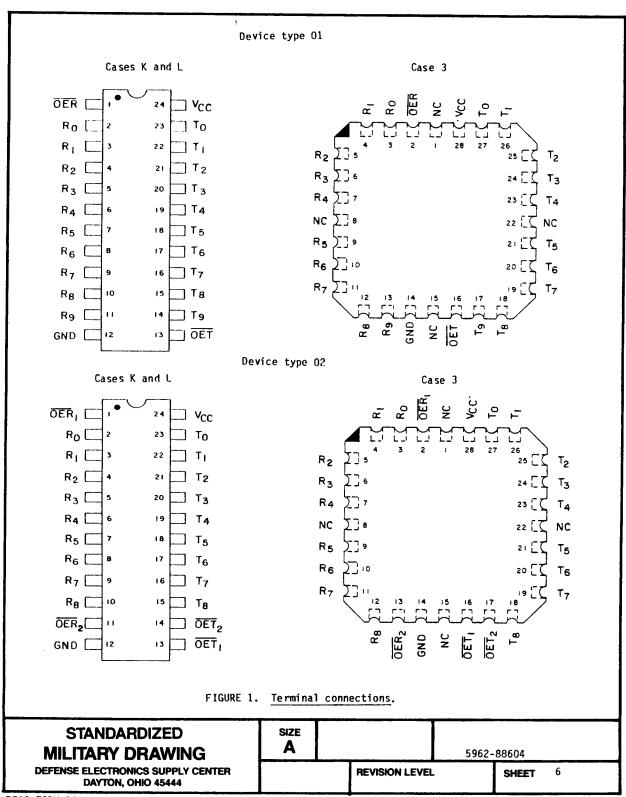
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|                              | TA                    | BLE I. Electr  | ical perfo                          | rmance       | e characteristi       | cs.             |         |             |                  |
|------------------------------|-----------------------|--|-------------------------------------|--------------|-----------------------|-----------------|---------|-------------|------------------|
| Test                         | <br> Symbol           | -55°C <  | nditions<br>T <sub>C</sub> < +125   | °Ç           | Group A<br> subgroups |                 | L       | imits       | Unit             |
| <b>***</b>                   | <u> </u>              | unless othe  | V <sub>CC</sub> ≤ 5.5<br>erwise spe | v<br>cified  |                       |                 | Min     | Max         |                  |
| High level output<br>voltage | V <sub>OH</sub>       | VCC = 4.5 V<br>VIN = VIL<br>or VIH                     | IOH =                               | -15 mA       | 1, 2, 3               | A11  <br>       | 2.4     |             | V                |
|                              | 1                     | O. •1H   | I <sub>OH</sub> =                   | -24 mA       | !<br>!                | ]<br>]          | 2.0     |             |                  |
| Low level output<br>voltage  | V <sub>OL</sub>       | $V_{CC} = 4.5 \text{ V},$ $V_{IN} = V_{IH} \text{ or}$ | I <sub>OL</sub> = 32                | πA           | 1, 2, 3               | A11             |         | 0.5         | <b>V</b>         |
| Input clamp voltage          | AIC                   | V <sub>CC</sub> = 4.5 V,                               | I <sub>IN</sub> = -18               | mA           | 1, 2, 3               | <br>  All  <br> |         | -1.2        | V                |
| Input hysteresis             | V <sub>HYST</sub>     |  |                                     |              | 1, 2, 3               | All  <br>  All  | 200     |             | mV               |
| Low level input<br>current   | IIL                   | $V_{CC} = 5.5 V$ , $\overline{OE}$ input               | V <sub>IN</sub> = 0.4               | ٧            | 1, 2, 3               | A11             |         | -0.5        | mA               |
| High level input<br>current  | I<br>II <sub>IH</sub> | $V_{CC} = 5.5 V$ , $\overline{OE}$ input               | V <sub>IN</sub> = 2.7               | ٧            | 1, 2, 3               | <br>  A11       |         | 50<br> <br> | μ <b>Α</b>       |
| High input current           | II                    | V <sub>CC</sub> = 5.5 V<br>V <sub>IN</sub> = 5.5 V     | OE inpo                             | ıt           | 1, 2, 3               | <br>  A11  <br> |         | 100         | <br>  μ <b>Α</b> |
|                              | !<br> <br>            |  | I I/O por                           | rt           | ]<br> <br>            | }<br> <br>      |         | 150         | ]<br> <br>       |
| (high impedence)             | I <sub>OZH</sub>      | V <sub>CC</sub> = 5.5 V                                | V <sub>OUT</sub> =                  | 2.7 V        | 1, 2, 3               | All             |         | 100         | μА               |
| output current               | IozL                  |  | V <sub>OUT</sub> =                  | 0.4 V        |                       |                 |         | -550        | 1                |
| Output short circuit current | 105                   | V <sub>CC</sub> = 5.5 V,                               | V <sub>OUT</sub> = 0.0              | V <u>1</u> / | 1, 2, 3               | All             | -75     | -250        | l mA             |
| See footnote at end o        | of table              |  |                                     |              |                       |                 |         |             |                  |
| STANDAI<br>MILITARY (        |                       |  | SIZE<br>A                           |              |                       | 5               | 962-886 | 504         |                  |
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| I <sub>OFF</sub>   | unless othe                            | VCC < 5.5 V<br>rwise specified      |  |  |  | 1  | 1   |
|--------------------|--|-------------------------------------|--|--|--|--|---|
| 1                  | $V_{CC} = 0.0 \text{ V}$               |                                     |  |  | Min  | Max  | <u> </u>  |
| Icc                |  | V <sub>OUT</sub> = 2.9 V            | 1, 2, 3  | I FIA  |  | 100<br> <br>   | μA  |
| -66                | V <sub>CC</sub> = 5.5 V<br>Outputs     | <br>  Output logic low<br>          | 1, 2, 3  | A11  |  | 140  | l mA  |
| <br> <br>          | unloaded<br>                           | <br>  Output logic high             | <br> <br>  | <br>   |  | 1115   |   |
| 1                  |  | l<br>  Output logic Hi-Z<br>        |  |  |  | 130  | <br> <br>   |
| tp <sub>LH</sub> ! | See figure 4<br>C <sub>L</sub> = 50 pF | $R_1 = 500\Omega$ $R_2 = 500\Omega$ | 9,10,11  | A11  |  | 9.0  | ns  |
| tpHL               |  |                                     | 9,10,11  | A11  |  | 9.0  | ns  |
| t <sub>P ZH</sub>  |  |                                     | 9,10,11  | A11  | The Section of the Se | 12.0   | ns  |
| t <sub>PZL</sub>   |  |                                     | 9,10,11  | A11  |  | 13.0   | ns  |
| ФHZ                |  |                                     | 9,10,11  | A11  <br>  |  | 10.0   | ns  |
| tpLZ               |  |                                     | 9,10,11  | A11  |  | 10.0   | ns  |
| output             | t should be sho                        | rted at a time. Du                  | ration sho   | uld not  | exceed   | 1 second   | i.  |
|                    |  | SIZE<br>A                           | T  | 5  | 962-886  | 04   |   |
|                    | tpHL  tpZH  tpZL  tpHZ  output         | tpHZ   tpHZ   tpLZ                  | tplh   See figure 4   R1 = 500Ω   R2 = 500Ω    tphL   tpZH    tpZH    tpLZ    tpHZ    tpLZ    DIZED   SIZE   A    RAWING   CS SUPPLY CENTER   REVI | C <sub>L</sub> = 50 pF   R <sub>1</sub> = 500Ω   9,10,11 | tPLH       See figure 4 CL = 50 pF       R1 = 500Ω R2 = 500Ω       9,10,11 A11         tPHL       9,10,11 A11         tPZH       9,10,11 A11         tPZL       9,10,11 A11         tPLZ       9,10,11 A11         output should be shorted at a time. Duration should not         DIZED RAWING       SIZE A         CS SUPPLY CENTER       REVISION LEVEL   | tphi   See figure 4   R1 = 5000   9,10,11   A11   A11   tphi   9,10,11   A11   tpzh   9,10,11   A11   tpzh   9,10,11   A11   tpzh   9,10,11   A11   tphz   9,10,11   A11   tphz   9,10,11   A11   tphz   9,10,11   A11   tplz   9,10,11   A11   tphz   9,10,11   A11   tphy   9,10,11   tphy   9,1 | tplh         See figure 4 CL = 50 pF         R1 = 5000 R2 = 5000         9,10,11 A11         9.0           tplh         9,10,11 A11         12.0           tplh         9,10,11 A11         13.0           tplh         9,10,11 A11         10.0           tplt         9,10,11 A11         10.0           tplt         9,10,11 A11         10.0    The company of the property o |

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Device type 01

|     | Inpu | ts  | Out | puts |     |          |
|-----|------|-----|-----|------|-----|----------|
| OET | ŌĒR  | Ri  | Ti  | Ri   | Ti  | Function |
| L   | Н    | L   | N/A | N/A  | r   | Transmit |
| L   | н    | Н   | N/A | N/A  | Н   | Transmit |
| Н   | L    | N/A | L   | L    | N/A | Receive  |
| Н   | L    | N/A | Н   | Н    | N/A | Receive  |
| Н   | Н    | Х   | Х   | Z    | Z   | Hi-Z     |

Device type 02

|                  |                  | Input            | 8                |     |     | Out | puts |          |
|------------------|------------------|------------------|------------------|-----|-----|-----|------|----------|
| OET <sub>1</sub> | OET <sub>2</sub> | OER <sub>1</sub> | OER <sub>2</sub> | Ri  | Ti  | Ri  | Tį   | Function |
| L                | L                | Н                | Х                | L   | N/A | N/A | L    | Transmit |
| L                | L                | Х                | Н                | L   | N/A | N/A | L    | Transmit |
| Н                | Х                | L                | L                | N/A | L   | L   | N/A  | Receive  |
| X                | Н                | L                | L                | N/A | L   | L   | N/A  | Receive  |
| L                | L                | Н                | Х                | Н   | N/A | N/A | Н    | Transmit |
| L                | L                | Х                | Н                | Н   | N/A | N/A | Н    | Transmit |
| Н                | Х                | L                | L                | N/A | н   | Н   | N/A  | Receive  |
| ×                | Н                | L                | L                | N/A | Н   | Н   | N/A  | Receive  |
| Н                | Х                | Н                | Х                | Х   | Х   | Z   | Z    | Hi-Z     |
| Х                | Н                | Х                | Н                | Х   | Х   | Z   | Z    | HI-Z     |

H = High X = Don't care

L = Low

N/A = Not applicable

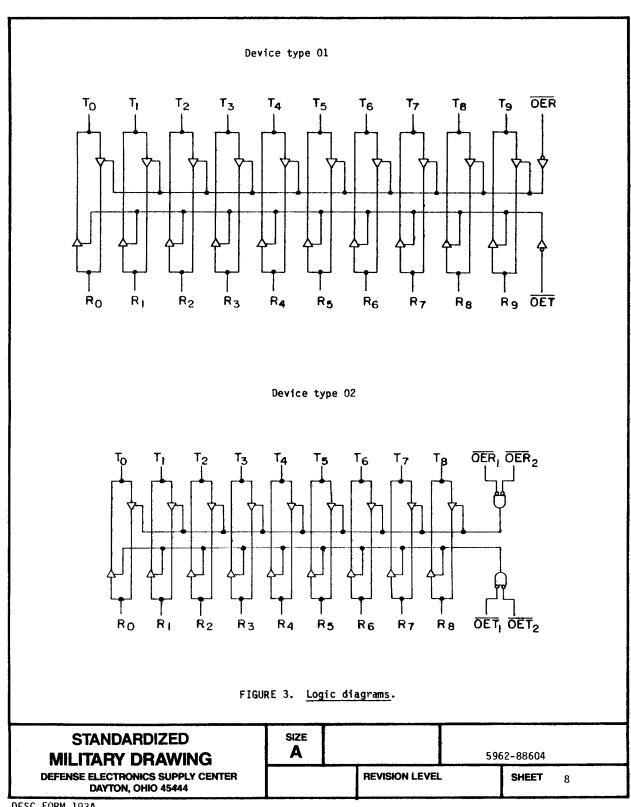
Z = High impedance

FIGURE 2. Truth tables.

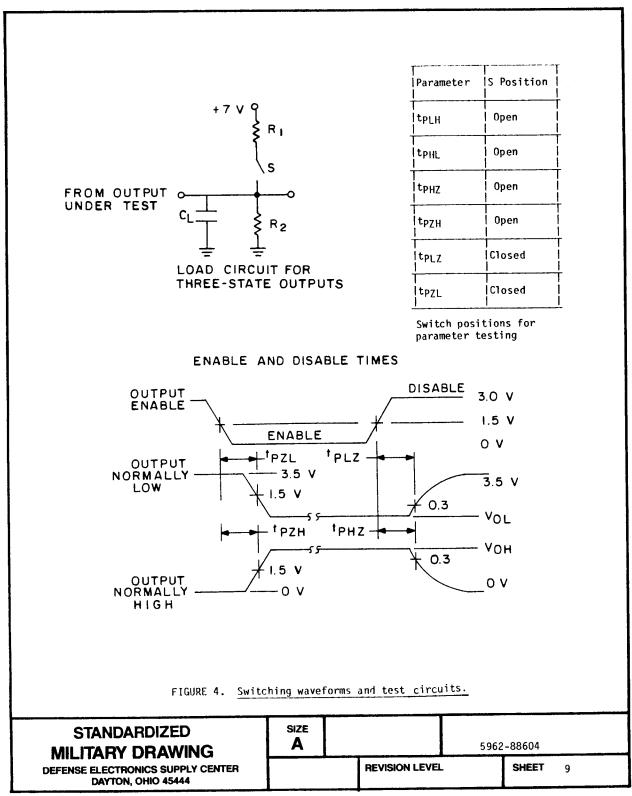
#### **STANDARDIZED** SIZE Α 5962-88604 **MILITARY DRAWING DEFENSE ELECTRONICS SUPPLY CENTER REVISION LEVEL** SHEET 7 DAYTON, OHIO 45444

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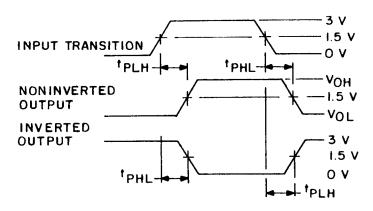


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# PROPAGATION DELAY



Note: Pulse generator for all pulses, rate  $\leq 1.0$  MHz; Z<sub>0</sub> =  $50 \alpha;$   $t_r \leq 2.5$  ns;  $t_f \leq 2.5$  ns.

FIGURE 4. Switching waveforms and test circuits-Continued.

| STANDARDIZED MILITARY DRAWING                        | SIZE<br>A |                | 5962- | -88604 |    |
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- 3.6 Certificate of compliance. 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-ECC 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 Certificate of conformance. 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 Notification of change. Notification of change to DESC-ECC shall be required in accordance with MIL-STD-883 (see 3.1 herein).
- 3.9 Verification and review. 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.
  - 4. QUALITY ASSURANCE PROVISIONS
- 4.1 Sampling and inspection. 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 Screening. 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 using the circuit submitted with the certificate of compliance (see 3.6 herein).
    - (2)  $T_A = +125^{\circ}C$ , 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.
- $\frac{4.3}{5005}$  Quality conformance inspection. Quality conformance inspection shall be in accordance with method  $\frac{5005}{5005}$  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 4, 5, and 6 in table I, method 5005 of MIL-STD-883 shall be omitted.
    - c. Subgroups 7 and 8 testing shall include verification of the truth tables.
  - 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.
      - (1) Test condition A using the circuit submitted with the certificate of compliance (see 3.6 herein).
      - (2)  $T_{\Delta} = +125^{\circ}C$ , minimum.
      - (3) Test duration: 1,000 hours, except as permitted by method 1005 of MIL-STD-883.

| STANDARDIZED MILITARY DRAWING                           | SIZE<br><b>A</b> |                | 596 | o2-88604    |
|---|------------------|----------------|-----|-------------|
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| TABLE II. Electrical test requirement | TABLE | II. | Electrical | test | requirement |
|---------------------------------------|-------|-----|------------|------|-------------|
|---------------------------------------|-------|-----|------------|------|-------------|

| MIL-STD-883 test requirements  | Subgroups<br>(per method  <br>5005, table I) |
|--|--|
| <br>  Interim electrical parameters<br>  (method 5004)<br>             |  |
| Final electrical test parameters   (method 5004)                       | 1*,2,3,7*,8,<br>9,10,11                      |
| Group A test requirements<br>  (method 5005)                           | 1,2,3,7,8,<br>9,10,11                        |
| Groups C and D end-point<br>  electrical parameters<br>  (method 5005) | 1, 2, 3                                      |

<sup>\*</sup> PDA applies to subgroups 1 and 7.

## 5. PACKAGING

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

## 6. NOTES

- 6.1 Intended use. 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 Replaceability. Microcircuits covered by this drawing will replace the same generic device covered by a contractor-prepared specification or drawing.
- 6.3 Configuration control of SMD's. 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).
- 6.4 Record of users. 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-ECC, telephone (513) 296-6022.
- 6.5 Comments. Comments on this drawing should be directed to DESC-ECC, Dayton, Ohio 45444, or telephone (513) 296-8525.

| STANDARDIZED MILITARY DRAWING                           | SIZE<br>A | 5962_886M | 52-88604       |        |          |
|---|-----------|-----------|----------------|--------|----------|
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6.6 Approved source of supply. An approved source of supply is listed in 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-ECC. The approved source listed below is for information purposes only and is current only to the date of the last action of this document.

| Military drawing<br>part number | Vendor  <br>  CAGE  <br>  number | Vendor<br>similar part<br>number <u>1</u> / |
|---------------------------------|----------------------------------|---|
| 5962-8860401KX                  | 34335                            | AM29861A/BKA                                |
| 5962-8860401LX                  | 34335                            | AM29861A/BLA                                |
| 5962-88604013X                  | 34335                            | AM29861A/B3A                                |
| 5962-8860402KX                  | 34335                            | AM29863A/BKA                                |
| 5962-8860402LX                  | 34335                            | AM29863A/BLA                                |
| 5962-88604023X                  | 34335                            | AM29863A/B3A                                |

1/ Caution. 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

34335

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