| A Changes to table I. Editorial changes throughout.  B Changes to table I and switching waveforms. Editorial changes throughout.  B Changes to table I and switching waveforms. Editorial changes throughout.  PATE (YR-MO-DA) APPROVED  W. Heckman  7. Noh |                            |       |        |       |       |        |        |         |        |        | ONS    |       |            |            |           |           |            |              |      |      |   |
|---|----------------------------|-------|--------|-------|-------|--------|--------|---------|--------|--------|--------|-------|------------|------------|-----------|-----------|------------|--------------|------|------|---|
| B Changes to table I and switching waveforms. Editorial changes 92 MAY 14 1. Noh  | LTR                        |       |        |       |       | DE     | SCRI   | PTIO    | N      |        |        |       |            | DA         | TE (      | YR-MO-    | DA)        |              | APPR | OVED |   |
| Changes to table I and switching waveforms. Editorial changes 92 MAY 14 7. Noh.   | A                          | Chang | jes to | table | I. E  | ditori | al cha | inges t | hrough | hout.  |        |       |            | 90 J       | UN 28     |           |            |              |      |      |   |
|   | 8                          |       |        |       | I and | switc  | hing w | vavefor | ms. i  | Editor | ial ch | anges |            | 92         | MAY       | 14        | ŀ          | <b>1</b> .   | No   | h    | • |
|   |                            |       |        |       |       |        |        |         |        |        |        |       |            |            |           |           |            |              |      |      |   |
|   |                            | `     |        |       |       |        |        |         |        |        |        |       |            |            |           |           |            |              |      |      |   |
|   |                            | `     |        |       |       |        |        |         |        |        |        |       |            |            |           |           |            |              |      |      |   |
| HEET  | неет                       |       |        |       |       |        |        |         |        |        |        |       |            |            |           |           |            |              |      |      |   |
| HEET EV   | HEET<br>EV                 |       |        |       |       |        |        |         |        |        |        |       |            |            |           |           |            |              |      |      |   |
| HEET EV HEET  | HEET<br>EV<br>HEET         |       |        |       |       |        |        |         | G      |        | Q      | Q     | Q          | В          | В         | B         |            | 8            |      |      |   |
| HEET  | EV<br>HEET<br>EV STA       | TUS   |        |       |       |        |        |         |        |        |        |       | <b></b> .  | <u> </u>   |           |           | <b></b>    | <del> </del> |      |      |   |
| HEET  | HEET EV HEET EV STA F SHEE | TUS   |        |       | SH    | EET    | ay J   | 1       | 2      | 3      | 4      | 5     | 6<br>SE EI | 7<br>LECTR | 8<br>ONIC | 9<br>S SU | 10<br>PPLY | 11           | ITER |      |   |

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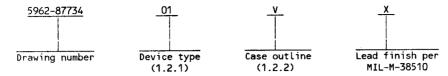
5962-87734

11

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| - 1 | - 51 | w  | rr |

1.1 Scope. This drawing describes device requirements for class B microcircuits in accordance with 1.2.1 of MIL-SID-883, "Provisions for the use of MIL-STD-883 in conjunction with compliant non-JAN devices".

1.2 Part or Identifying Number (PIN). The complete PIN shall be as shown in the following example:



1.2.1 Device type(s). The device type(s) sha'll identify the circuit function as follows:

| Device type | Generic number | <u>Circuit function</u>             | Frequency     |
|-------------|----------------|-------------------------------------|---------------|
| 01          | 82c284-10      | Clock generator and ready interface | <b>10 MHz</b> |
| 02          | 82c284-8       | Clock generator and ready interface | 8 MHz         |
| 03          | 82c284-6       | Clock generator and ready interface | 6 MHz         |

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

Outline letter

Case outline

V

D-6 (18-lead, .960" x .310" x .200"), dual-in-line package

1.3 Absolute maximum ratings.

1.4 Recommended operating conditions.

- 2. APPLICABLE DOCUMENTS
- 2.1 <u>Government specification, standard, and bulletin</u>. 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).

| STANDARDIZED<br>MILITARY DRAWING                     | SIZE<br>A |                     | 5962-87734 |
|--|-----------|---------------------|------------|
| DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO 45444 |           | REVISION LEVEL<br>B | SHEET<br>2 |

(Copies of the specification, standard, and bulletin required by manufacturers in connection with exercise 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 <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.
- 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>Case outline(s)</u>. The case outline(s) shall be in accordance with 1.2.2 herein.
  - 3.2.2 Terminal connections. The terminal connections shall be as specified on figure 1.
  - 3.2.3 Logic diagram. The logic diagram 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 case 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 PIN listed in 1.2 herein. In addition, the manufacturer's PIN 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-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 <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-ECC 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.

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| Test                                    | Symbol              | Conditions   | 1/           | Group A  | :       | Limits     |            | Unit         |
|---|---------------------|--|--------------|----------|---------|------------|------------|--------------|
|   |                     | -55°C ≤ T <sub>C</sub> +12<br>4.75 V ≤ V <sub>CC</sub> ≤ 5 | 5°C<br>.25 V | subgroup | s types | Min        | Max        |              |
| Input low voltage                       | VIL                 |  |              | 1,2,3    | ALL     |            | 0.8        | V            |
| Input high volt <b>age</b>              | v <sub>IH</sub>     |  |              | 1,2,3    | All     | 2.0        |            | V            |
| RES and EFI input high voltage          | VIHR                |  |              | 1,2,3    | All     | 2.6        |            | <b>V</b><br> |
| RESET, PCLK output low<br>voltage       | v <sub>oL</sub>     | I <sub>OL</sub> = 5 mA <u>2</u> /                          |              | 1,2,3    | ALL     |            | 0.45       | v<br>        |
| RESET, PCLK output high<br>voltage      | v <sub>OH</sub>     | I <sub>OH</sub> = -1 mA                                    |              | 1,2,3    | ALL     | 2.4        |            | <b>v</b><br> |
| READY, output low voltage               | VOLR                | I <sub>OL</sub> = 9 mA                                     |              | 1,2,3    | All     |            | 0.45       | V            |
| CLK output low volt <b>age</b>          | V <sub>OLC</sub>    | I <sub>OL</sub> = 5 mA                                     |              | 1,2,3    | ALL     |            | ().45      | V            |
| CLK output high voltage                 | v <sub>OHC</sub>    | $I_{OH} = -800 \ \mu A$                                    |              | 1,2,3    | All     | 4.0        |            | V            |
| Input leakage current                   | ILI                 | 0 V = VIN = VCC 3  | ·            | 1,2,3    | ALL     | -10        | +10        | μΑ           |
| Input_sustaining current on SO, S1 pins | IIL                 | V <sub>IN</sub> = 0 V                                      |              | 1,2,3    | All     | -30        | -500       | μΑ           |
| Power supply current                    | <sup>I</sup> cc     | At 20 MHz output Cl<br>frequency                           | _K           | 1,2,3    | ALL     |            | <b>7</b> 5 | mA           |
| Input capacitance                       | CIN                 | F <sub>C</sub> = 1 MHz, see 4                              | 3.1c         | 4        | ALL     |            | 10         | pF           |
| Functional tests                        |                     | See 4.3.1d, V <sub>CC</sub> = 5.25 V                       | 4.75 V,      | 7,8      | ALL     |            |            |              |
| EFI to CLK delay t <sub>1</sub>         | At 1.5 V <u>4</u> / |  | 9,10,1       | 1 01     |         | 25         | ns         |              |
|   | Stay Sq             |  |              |          | 02      |            | 30         | ns           |
|   |                     |  |              |          | 03      |            | 35         | ns           |
| EFI low time                            | t <sub>2</sub>      | At 1.5 V 4/ 5/   |              | 9,10,1   | 1 01    | 22.5       |            | ns           |
|   |                     |  |              |          | 02      | 28         |            | ns           |
|   |                     |  |              |          | 03      | 40         |            | ns           |
| EFI high time                           | t <sub>3</sub>      | At 1.5 V 4/ 5/   |              | 9,10,1   | 1 01    | 22.5       |            | ns           |
|   |                     |  |              |          | 02      | 28         |            | ns           |
|   |                     |  |              |          | 03      | 35         |            | ns           |
| CLK period                              | t <sub>4</sub>      |  |              | 9,10,1   | 1 01    | 50         | 500        | ns           |
|   |                     |  |              |          | 02      | 62         | 500        | ns           |
|   |                     |  |              |          | 03      | 83         | 500        | ns           |
| CLK low time                            | t <sub>5</sub>      | At 1.0 V 2/4/6   | 7/           | 9,10,1   | 1 01    | 12         |            | ns           |
|   |                     |  |              |          | 02      | 15         |            | ns           |
|   |                     |  |              |          | 03      | 20         |            | ns           |
| See footnotes at end of ta              | ble.                |  |              | T        |         |            | <u> </u>   |              |
| STAND<br>MILITAR                        | ARDIZED             | NC.  | SIZE<br>A    |          |         |            | 59         | 962-8773     |
| DEFENSE ELECTRON<br>DAYTON, C           | IICS SUP            | PLY CENTER   |              | F        | EVISION | LEVEL<br>B | - 1        | HEET 4       |

| Test                      | Symbol          | Conditions 1/  | Group A   | Device | :    |              | Unit |
|---------------------------|-----------------|--|-----------|--------|------|--------------|------|
|                           |                 | -55°C ≤ T <sub>C</sub> +125°C<br>4.75 V ≤ V <sub>CC</sub> ≤ 5.25 V | subgroups | types  | Min  | Max          |      |
| CLK high time             | t <sub>6</sub>  | At 3.6 V <u>2</u> / <u>4</u> / <u>6</u> / <u>7</u> /               | 9,10,11   | 01     | 16   |              | ns   |
|                           |                 |  |           | 02,03  | 25   |              | ns   |
| CLK rise time             | t <sub>7</sub>  | 1.0 V to 3.6 V <u>2</u> / <u>4</u> /                               | 9,10,11   | 01     |      | 8            | ns   |
|                           |                 |  |           | 02,03  |      | 10           | ns   |
| CLK fall time             | t <sub>8</sub>  | 3.6 V to 1.0 V 2/4/  | 9,10,11   | 01     |      | 8            | ns   |
|                           |                 |  |           | 02,03  |      | 10           | ns   |
| Status setup time         | t <sub>9</sub>  | 4/   | 9,10,11   | 01     | 20   |              | ns   |
|                           |                 |  |           | 02     | 22   |              | ns   |
|                           | 1               |  |           | 03     | 28   |              | ns   |
| Status hold time          | t <sub>10</sub> | 4/   | 9,10,11   | ALL    | 1    |              | ns   |
| SRDY or SRDYEN setup time | t <sub>11</sub> | <u>4</u> /   | 9,10,11   | 01     | 17.5 |              | ns   |
|                           | ''              |  | 9,10,11   | 02     | 20   |              | ns   |
|                           |                 |  |           | 03     | 25   |              | ns   |
| SRDY or SRDYEN hold time  | t <sub>12</sub> | 4/   | 9,10,11   | 01     | 2    |              | ns   |
|                           | '-              |  |           | 02,03  | 0    |              | ns   |
| ARDY or ARDYEN setup time | t <sub>13</sub> | 4/ 8/  | 9,10,11   | 01,02  | 0    | !            | ns   |
|                           | 13              |  |           | 03     | 5    |              | ns   |
| ARDY or ARDYEN hold time  | t <sub>14</sub> | 4/8/   | 9,10,11   | All    | 30   | !            | ns   |
| RES setup time            | t <sub>15</sub> | 4/8/   | 9,10,11   | 01,02  | 20   |              | ns   |
|                           |                 |  |           | 03     | 25   |              | ns   |
| RES hold time             | t <sub>16</sub> | 4/8/   | 9,10,11   | All    | 10   |              | ns   |
| READY inactive delay      | t <sub>17</sub> | At 0.8 V 9/  | 9,10,11   | ALL    | 0    |              | ns   |
| READY active delay        | t <sub>18</sub> | At 0.8 V 9/  | 9,10,11   | 01,02  | 0    | 24           | ns   |
|                           |                 |  |           | 03     | 0    | 33           | ns   |
| PCLK delay                | t <sub>19</sub> | 2/ 10/   | 9,10,11   | 01     | 0    | 35           | ns   |
| •                         | 17              |  |           | 02,03  | 0    | 45           | ns   |
|                           | ì               | i  |           |        | 1    | <del> </del> |      |

See footnotes at end of table.

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<u>2</u>/ <u>10</u>/

<sup>t</sup>20

01

02

27

34

50

5

ns

ns

9,10,11

Reset delay

| Test           | Symbol          | Conditions 1/  | Group A   |       | Lir                | nits      | Unit |
|----------------|-----------------|--|-----------|-------|--------------------|-----------|------|
|                |                 | -55°C ≤ T <sub>C</sub> +125°C<br>4.75 V ≤ V <sub>CC</sub> ≤ 5.25 V | subgroups | types | Min                | Max       |      |
| PCLK low time  | t <sub>21</sub> | <u>10</u> / <u>11</u> /  | 9,10,11   | All   | t <sub>4</sub> -20 |           | ns   |
| PCLK high time | t <sub>22</sub> | <u>10</u> / <u>11</u> /  | 9,10,11   | ALL   | t <sub>4</sub> -20 | <br> <br> | ns   |

- 1/ See figures 3 and 4.
- 2/ Due to test equipment limitations, actual tested values may differ from those specified, but specified limits are guaranteed.
- 3/ Status lines  $\overline{50}$  and  $\overline{51}$  excluded because they have internal pull-up resistors.
- $\underline{4}$ / CLK loading:  $C_1 = 100 \text{ pF}$ .
- 5/ When driving with EFI, provide minimum EFI high and low times as follows:

| CLK output frequency:       | 12 MHz | 16 MHz | 20 MHz  |
|-----------------------------|--------|--------|---------|
| Min. required EFI high time | 35 ns  | 28 ns  | 22.5 ns |
| Min. required EFI low time  | 40 ns  | 28 ns  | 22.5 ns |

- 6/ With the internal crystal oscillator using recommended crystal and capacitive loading, or with the EFI input meeting specifications t<sub>2</sub> and t<sub>3</sub> use a parallel-resonant, fundamental mode crystal. The recommended crystal loading for CLK frequencies of 8-16 MHz are 25 pF from pin X<sub>1</sub> to ground, and 15 pF from pin X<sub>2</sub> to ground. These recommended values are ±5 pF and include all stray capacitance. Decouple V<sub>CC</sub> and GND as close to the device as possible.
- Yhen using crystal (with recommended capacitive loading per table below) appropriate for speed of the device, CLK output high and low times guaranteed to meet 5962-85148 requirements.

| Crystal frequency | C1 capacitance<br>(pin 7) | C2 capacitance<br>(pin 8) |
|-------------------|---------------------------|---------------------------|
| 1 to 8 MHz        | 60 pF                     | 40 pF                     |
| 8 to 20 MHz       | 25 pF                     | 15 pF                     |

Note: Capacitance values must include stray board capacitance.

- 8/ This is an asynchronous input. This specification is given for testing purposes only, to assure recognition at specific CLK edge.
- 9/ READY loading:  $I_{OL}$  = 9 mA,  $C_L$  = 150 pF. In system application, use  $700\Omega$  ±5 percent pull-up resistor to meet 5962-8514801 timing requirements and use  $910\Omega$  ±5 percent pull-up resistor to meet 5962-8514801 and 5962-8514802 timing requirements.
- 10/ PCLK and RESET loading:  $C_1 = 75$  pF. PCLK also has  $750\Omega$  pull-up resistor.
- 11/ t<sub>L</sub> refers to any allowable CLK period.

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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)  $T_{\Delta} = +125^{\circ}C$ , 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.
- 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 and 6 in table I, method 5005 of MIL-STD-883 shall be omitted.
- c. Subgroup 4 ( $c_{\rm IN}$  measurement) shall be measured only for the initial test and after process or design changes which may affect input capacitance.
- d. Subgroups 7 and 8 shall verify the functional operation of the device. These tests form a part of the manufacturer's test tape and shall be maintained and available from approved sources of supply.
- 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, B, C, or D 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.

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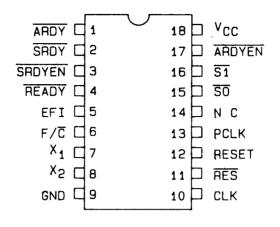


FIGURE 1. <u>Terminal connections</u>.

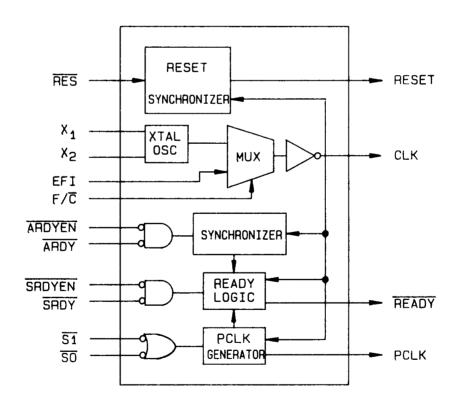


FIGURE 2. Logic diagram.

| STANDARDIZED MILITARY DRAWING DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO 45444 | SIZE<br>A |                     | 5962-87734 |
|--|-----------|---------------------|------------|
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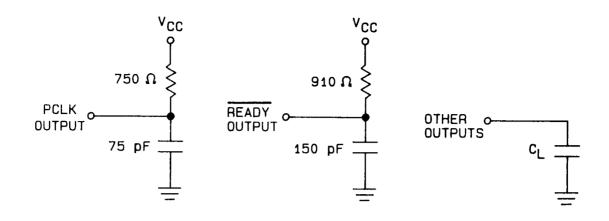
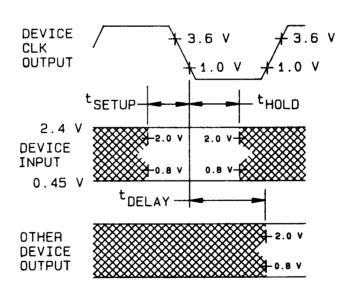


FIGURE 3. Output load.



RESET, EFI drive and measurement points

CLK output measurement points

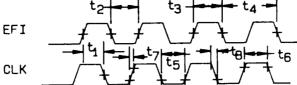


AC setup, hold and delay time measurements

FIGURE 4. Switching waveforms.

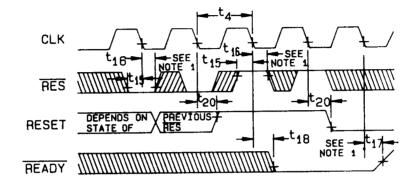
| STANDARDIZED<br>MILITARY DRAWING<br>DEFENSE ELECTRONICS SUPPLY CENTER<br>DAYTON, OHIO 45444 | SIZE<br>A |                     | 5962-87734 |
|---|-----------|---------------------|------------|
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CLK as a function of EFI



The EFI input LOW and HIGH times as shown are required to guarantee the CLK LOW and HIGH times shown. NOTE:

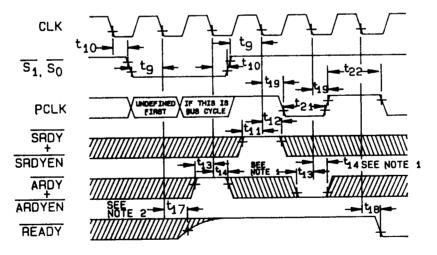
RESET and  $\overline{\text{READY}}$  timing as a function of  $\overline{\text{RES}}$  with  $\overline{\text{S1}}$  and  $\overline{\text{SO}}$  HIGH



NOTES:

- 1. This is an asynchronous input. The setup and hold times shown are required to guarantee the response shown.
- 2. Tie 910 $_{\Omega}$  ±5 percent pull-up resistor to the READY output.

READY and PCLK timing with RES HIGH



NOTES:

- 1. This is an asynchronous input. The setup and hold times shown are required to guarantee the response shown.
- 2. Tie 910 $\Omega$  ±5 percent pull-up resistor to the READY output.

FIGURE 4. <u>Switching waveforms</u> - Continued.

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TABLE II. Electrical test requirements.

| MIL-STD-883 test requirements                                | Subgroups<br>(per method<br>5005, table I) |
|--|--|
| Interim electrical parameters<br>(method 5004)               |  |
| Final electrical test parameters<br>(method 5004)            | 1*, 2, 3, 7*, 8, 9,<br>10, 11              |
| Group A test requirements<br>(method 5005)                   | 1, 2, 3, 4, 7, 8, 9,<br>10, 11             |
| Groups C and D end-point electrical parameters (method 5005) | 2, 8a, 10                                  |

<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 <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).
- 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-ECT, telephone (513) 296-6023.
- 6.5 <u>Comments</u>. Comments on this drawing should be directed to DESC-ECC, Dayton, Ohio 45444, or telephone (513) 296-8526.
- 6.6 <u>Approved sources of supply</u>. Approved sources of supply are listed in MIL-BUL-103. The vendors listed in MIL-BUL-103 have agreed to this drawing and a certificate of compliance (see 3.6 herein) has been submitted to and accepted by DESC-ECC.

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