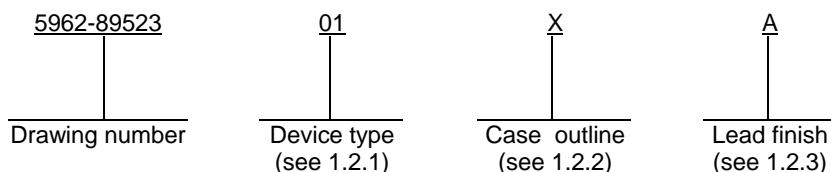


## 1. SCOPE

1.1 Scope. This drawing describes device requirements for MIL-STD-883 compliant, non-JAN class level B microcircuits in accordance with MIL-PRF-38535, appendix A.

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



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

Device type	Generic number	Circuit function	Shift in/out rate
01, 05	(See 6.6)	64 x 4 CMOS parallel FIFO	10 MHz
02, 06	(See 6.6)	64 x 4 CMOS parallel FIFO	15 MHz
03, 07	(See 6.6)	64 x 4 CMOS parallel FIFO	25 MHz
04, 08	(See 6.6)	64 x 4 CMOS parallel FIFO	35 MHz

1.2.2 Case outline(s). The case outline(s) are as designated in MIL-STD-1835 and as follows:

Outline letter	Descriptive designator	Terminals	Package style
E	GDIP1-T16 or CDIP2-T16	16	Dual-in-line package
2	CQCC1-N20	20	Square leadless chip carrier

1.2.3 Lead finish. The lead finish is as specified in MIL-PRF-38535, appendix A.

1.3 Absolute maximum ratings.

Terminal voltage with respect to ground .....	-0.5 V dc to +7.0 V dc
DC output current.....	50 mA
Storage temperature range.....	-65°C to +150°C
Maximum power dissipation ( $P_D$ ) <sup>1/</sup> .....	1.0 W
Lead temperature (soldering, 10 seconds).....	+260°C
Thermal resistance, junction-to-case ( $\theta_{JC}$ ) .....	See MIL-STD-1835
Junction temperature ( $T_J$ ) .....	+175°C

1.4 Recommended operating conditions.

Supply voltage ( $V_{CC}$ ) .....	4.5 V dc to 5.5 V dc
Supply voltage ( $GND$ ) .....	0 V dc
Input high voltage ( $V_{IH}$ ) .....	2.0 V dc minimum
Input low voltage ( $V_{IL}$ ) .....	0.8 V dc maximum <sup>2/</sup>
Case operating temperature range ( $T_C$ ) .....	-55°C to +125°C

<sup>1/</sup> Must withstand the added  $P_D$  due to short-circuit, test e.g.,  $I_{OS}$ .

<sup>2/</sup> -1.5 V undershoots are allowed for 10 ns once per cycle.

**STANDARD  
MICROCIRCUIT DRAWING**  
DEFENSE SUPPLY CENTER COLUMBUS  
COLUMBUS, OHIO 43218-3990

SIZE  
**A**

**5962-89523**

REVISION LEVEL  
**C**

SHEET  
**2**

## 2. APPLICABLE DOCUMENTS

2.1 Government specification, standards, and handbooks. The following specification, standards, and handbooks form a part of this drawing to the extent specified herein. Unless otherwise specified, the issues of these documents are those cited in the solicitation or contract.

### DEPARTMENT OF DEFENSE SPECIFICATION

MIL-PRF-38535 - Integrated Circuits, Manufacturing, General Specification for.

### DEPARTMENT OF DEFENSE STANDARDS

MIL-STD-883 - Test Method Standard Microcircuits.

MIL-STD-1835 - Interface Standard 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 <http://assist.daps.dla.mil/quicksearch/> or <http://assist.daps.dla.mil> or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.)

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 takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

## 3. REQUIREMENTS

3.1 Item requirements. The individual item requirements shall be in accordance with MIL-PRF-38535, appendix A for non-JAN class level B devices and as specified herein. Product built to this drawing that is produced by a Qualified Manufacturer Listing (QML) certified and qualified manufacturer or a manufacturer who has been granted transitional certification to MIL-PRF-38535 may be processed as QML product in accordance with the manufacturers approved program plan and qualifying activity approval in accordance with MIL-PRF-38535. This QML flow as documented in the Quality Management (QM) plan may make modifications to the requirements herein. These modifications shall not affect form, fit, or function of the device. These modifications shall not affect the PIN as described herein. A "Q" or "QML" certification mark in accordance with MIL-PRF-38535 is required to identify when the QML flow option is used.

3.2 Design, construction, and physical dimensions. The design, construction, and physical dimensions shall be as specified in MIL-PRF-38535, appendix A and herein.

3.2.1 Case outline(s). 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.

3.3 Electrical performance characteristics. Unless otherwise specified herein, the electrical performance characteristics are as specified in table I and shall apply over the full (case or ambient) 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-PRF-38535, appendix A. The part shall be marked with the PIN listed in 1.2 herein. In addition, the manufacturer's PIN may also be marked. For packages where marking of the entire SMD PIN number is not feasible due to space limitations, the manufacturer has the option of not marking the "5962-" on the device.

3.5.1 Certification/compliance mark. A compliance indicator "C" shall be marked on all non-JAN devices built in compliance to MIL-PRF-38535, appendix A. The compliance indicator "C" shall be replaced with a "Q" or "QML" certification mark in accordance with MIL-PRF-38535 to identify when the QML flow option is used.

STANDARD MICROCIRCUIT DRAWING DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43218-3990	SIZE A		5962-89523
		REVISION LEVEL C	SHEET 3

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-HDBK-103 (see 6.6 herein). The certificate of compliance submitted to DSCC-VA prior to listing as an approved source of supply shall affirm that the manufacturer's product meets the requirements of MIL-PRF-38535, appendix A and the requirements herein.

3.7 Certificate of conformance. A certificate of conformance as required in MIL-PRF-38535, appendix A shall be provided with each lot of microcircuits delivered to this drawing.

3.8 Notification of change. Notification of change to DSCC-VA shall be required for any change that affects this drawing.

3.9 Verification and review. DSCC, DSCC'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. VERIFICATION

4.1 Sampling and inspection. Sampling and inspection procedures shall be in accordance with MIL-PRF-38535, appendix A.

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 D or E. The test circuit shall be maintained by the manufacturer under document revision level control and shall be made available to the preparing or acquiring activity upon request. 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)  $T_A = +125^{\circ}\text{C}$ , 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 Quality conformance inspection. 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 (CIN and COUT measurement) shall be measured only for the initial test and after process or design changes which may affect input capacitance. Sample size is 15 devices with no failures, and all input and output terminals tested.

d. Subgroups 7 and 8 shall include verification of the device to function correctly.

##### 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 C or D. The test circuit shall be maintained by the manufacturer under document revision level control and shall be made available to the preparing or acquiring activity upon request. 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)  $T_A = +125^{\circ}\text{C}$ , minimum.

(3) Test duration: 1,000 hours, except as permitted by method 1005 of MIL-STD-883.

STANDARD MICROCIRCUIT DRAWING DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43218-3990	SIZE A		5962-89523
		REVISION LEVEL C	SHEET 4

TABLE I. Electrical performance characteristics.

Test	Symbol	Conditions -55°C ≤ T <sub>C</sub> ≤ +125°C V <sub>CC</sub> = 4.5 V to 5.5 V unless otherwise specified	Group A subgroups	Device types	Limits		Unit
					Min	Max	
Input low current	I <sub>IL</sub>	0 V ≤ V <sub>IN</sub> ≤ 5.5 V, V <sub>CC</sub> = 5.5 V	1, 2, 3	All	-10		μA
Input high current	I <sub>IH</sub>	0 V ≤ V <sub>IN</sub> ≤ 5.5 V, V <sub>CC</sub> = 5.5 V	1, 2, 3	All		+10	μA
Output low voltage	V <sub>OL</sub>	V <sub>CC</sub> = 4.5 V, I <sub>OL</sub> = 8.0 mA V <sub>IL</sub> = 0.8 V, V <sub>IH</sub> = 2.0 V	1, 2, 3	All		0.4	V
Output high voltage	V <sub>OH</sub>	V <sub>CC</sub> = 4.5 V, I <sub>OH</sub> = -4.0 mA V <sub>IL</sub> = 0.8 V, V <sub>IH</sub> = 2.0 V	1, 2, 3	All	2.4		V
Output short-circuit current <u>1/</u>	I <sub>OS</sub>	V <sub>CC</sub> = 5.5 V, V <sub>O</sub> = 0 V	1, 2, 3	All	-20	-110	mA
Off-state output high current	I <sub>HZ</sub>	V <sub>CC</sub> = 5.5 V, V <sub>O</sub> = 2.4 V	1, 2, 3	01 - 04		+20	μA
Off-state output low current	I <sub>LZ</sub>	V <sub>CC</sub> = 5.5 V, V <sub>O</sub> = 0.4 V	1, 2, 3	01 - 04	-20		μA
Operating supply current	I <sub>CC</sub>	outputs open, f = 10 MHz, V <sub>CC</sub> = 5.5 V, all inputs 0.0 V to 3.0 V	1, 2, 3	All		90	mA
Input capacitance	C <sub>IN</sub>	V <sub>IN</sub> = 0 V, f = 1.0 MHz, T <sub>A</sub> = +25°C, see 4.3.1c	4	All		7.0	pF
Output capacitance	C <sub>OUT</sub>	V <sub>OUT</sub> = 0 V, f = 1.0 MHz, T <sub>A</sub> = +25°C, see 4.3.1c	4	All		7.0	pF
Functional tests		See 4.3.1d	7, 8A, 8B	All			
Shift in rate	f <sub>IN</sub>	See figures 2 - 8 as applicable <u>2/</u>	9, 10, 11	01, 05		10	MHz
				02, 06		15	
				03, 07		25	
				04, 08		35	

See footnotes at end of table.

**STANDARD  
MICROCIRCUIT DRAWING**  
DEFENSE SUPPLY CENTER COLUMBUS  
COLUMBUS, OHIO 43218-3990

SIZE  
**A**

REVISION LEVEL  
**C**

**5962-89523**  
SHEET  
**5**

TABLE I. Electrical performance characteristics - Continued.

Test	Symbol	Conditions -55°C ≤ T <sub>C</sub> ≤ +125°C V <sub>CC</sub> = 4.5 V to 5.5 V unless otherwise specified	Group A subgroups	Device types	Limits		Unit
					Min	Max	
Shift in to input ready low <u>3/</u>	t <sub>IRL</sub>	See figures 2 - 8 as applicable <u>2/</u>	9, 10, 11	01, 05		40	ns
				02, 06		35	
				03, 07		21	
				04, 08		18	
Shift in to input ready high <u>3/</u>	t <sub>IRH</sub>		9, 10, 11	01, 05		45	ns
				02, 06		40	
				03, 07		28	
				04, 08		20	
Shift out rate	f <sub>OUT</sub>		9, 10, 11	01, 05		10	MHz
				02, 06		15	
				03, 07		25	
				04, 08		35	
Shift out to output ready low <u>3/</u>	t <sub>ORL</sub>		9, 10, 11	01, 05		40	ns
				02, 06		35	
				03, 07		19	
				04, 08		18	
Shift out to output ready high <u>3/</u>	t <sub>ORH</sub>		9, 10, 11	01, 05		55	ns
				02, 06		40	
				03, 07		34	
				04, 08		20	
Output data hold (previous word)	t <sub>ODH</sub>		9, 10, 11	All	5.0		ns
Output data shift (next word) <u>4/</u>	t <sub>ODS</sub>		9, 10, 11	01, 02, 05, 06		55	ns
				03, 07		35	
				04, 08		25	

See footnotes at end of table.

**STANDARD  
MICROCIRCUIT DRAWING**  
DEFENSE SUPPLY CENTER COLUMBUS  
COLUMBUS, OHIO 43218-3990

SIZE  
**A**

REVISION LEVEL  
**C**

**5962-89523**  
SHEET  
**6**

TABLE I. Electrical performance characteristics - Continued.

Test	Symbol	Conditions -55°C ≤ T <sub>C</sub> ≤ +125°C V <sub>CC</sub> = 4.5 V to 5.5 V unless otherwise specified	Group A subgroups	Device types	Limits		Unit
					Min	Max	
Data throughput or "fall through" <u>4/</u>	t <sub>PT</sub>	See figures 2 - 8 as applicable <u>2/</u>	9, 10, 11	01, 02 05, 06		65	ns
				03, 07		40	
				04, 08		28	
MASTER RESET to OR low	t <sub>MRORL</sub>		9, 10, 11	01, 05 02, 03 06, 07		40 35	ns
				04, 08		28	
MASTER RESET to IR high	t <sub>MRI RH</sub>		9, 10, 11	01, 05 02, 03 06, 07		40 35	ns
				04, 08		28	
MASTER RESET to data output low	t <sub>MRQ</sub>		9, 10, 11	01, 05 02, 06 03, 07 04, 08		40 35 25 20	ns
Output valid from OE low	t <sub>OOE</sub>		9, 10, 11	01 02 03 04		35 30 20 15	ns
Input ready pulse high <u>4/ 5/</u>	t <sub>IPH</sub>		9, 10, 11	01,02,03 05,06,07 04, 08	11 9.0		ns
Output high impedance from OE high <u>4/ 5/</u>	t <sub>HZOE</sub>		9, 10, 11	01 02 03 04		30 25 15 12	ns
Output ready pulse high <u>4/ 5/</u>	t <sub>OPH</sub>		9, 10, 11	01,02,03 05,06,07 04, 08	11 9.0		ns

See footnotes at end of table.

**STANDARD  
MICROCIRCUIT DRAWING**  
DEFENSE SUPPLY CENTER COLUMBUS  
COLUMBUS, OHIO 43218-3990

SIZE  
**A**

REVISION LEVEL  
**C**

**5962-89523**

SHEET  
**7**

TABLE I. Electrical performance characteristics - Continued.

Test	Symbol	Conditions -55°C ≤ T <sub>C</sub> ≤ +125°C V <sub>CC</sub> = 4.5 V to 5.5 V unless otherwise specified	Group A subgroups	Device types	Limits		Unit
					Min	Max	
Shift in high time <u>3/</u>	t <sub>SIH</sub>	See figures 2 - 8 as applicable <u>2/</u>	9, 10, 11	01, 02 05, 06	20		ns
				03, 07	11		
				04, 08	9.0		
Shift in low time	t <sub>SIL</sub>		9, 10, 11	01, 05	30		ns
				02, 06	25		
				03, 07	24		
				04, 08	17		
Input data setup time	t <sub>IDS</sub>		9, 10, 11	All	0		ns
Input data hold time	t <sub>IDH</sub>		9, 10, 11	01, 05	40		ns
				02, 06	30		
				03, 07	20		
				04, 08	15		
Shift out high time <u>3/</u>	t <sub>SOH</sub>		9, 10, 11	01, 02 05, 06	20		ns
				03, 07	11		
				04, 08	9.0		
Shift out low time	t <sub>SOL</sub>		9, 10, 11	01, 02 05, 06	25		ns
				03, 07	24		
				04, 08	17		
MASTER RESET pulse width	t <sub>MRW</sub>		9, 10, 11	01, 05	30		ns
				02,03,04 06,07,08	25		
MASTER RESET pulse to SI	t <sub>MRS</sub>		9, 10, 11	01, 05	35		ns
				02, 06	25		
				03, 04 07, 08	10		

See footnotes at end of table.

**STANDARD  
MICROCIRCUIT DRAWING**  
DEFENSE SUPPLY CENTER COLUMBUS  
COLUMBUS, OHIO 43218-3990

SIZE  
**A**

5962-89523

REVISION LEVEL  
**C**

SHEET  
**8**

TABLE I. Electrical performance characteristics - Continued.

Test	Symbol	Conditions -55°C ≤ T <sub>C</sub> ≤ +125°C V <sub>CC</sub> = 4.5 V to 5.5 V unless otherwise specified	Group A subgroups	Device types	Limits		Unit
					Min	Max	
Data setup to IR <u>5/</u>	t <sub>SIR</sub>	See figures 2 - 8 as applicable <u>2/</u>	9, 10, 11	01,02,03 05,06,07	5.0		ns
				04, 08	3.0		
Data hold from IR <u>5/</u>	t <sub>HIR</sub>		9, 10, 11	01, 02 05, 06	30		ns
				03, 07	20		
				04, 08	15		
Data setup to OR high <u>5/</u>	t <sub>SOR</sub>		9, 10, 11	All	0		ns

1/ Not more than one output should be shorted at a time. Duration of the short-circuit condition should not exceed one second. This parameter may not be tested, but shall be guaranteed to the limits specified in table I.

2/ AC measurements assume signal transition times of 5 ns or less, timing reference levels of 1.5 V, input pulse levels of 0 V to 3.0 V and output loading of 30 pF load capacitance. Output timing reference is 1.5 V.

3/ Since these devices are very high speed, care must be exercised in the design of the hardware and timing utilized in the design. Device grounding and decoupling are crucial to correct operation as the device will respond to very small glitches due to long reflective lines, high capacitances or poor supply decoupling and grounding. A monolithic ceramic capacitor of 0.1 μF directly between V<sub>CC</sub> and GND with very short lead lengths is recommended.

4/ This parameter applies to devices communicating with each other in a cascaded mode.

5/ May not be tested, but shall be guaranteed to the limits specified in table I.

**STANDARD  
MICROCIRCUIT DRAWING**  
DEFENSE SUPPLY CENTER COLUMBUS  
COLUMBUS, OHIO 43218-3990

SIZE  
**A**

**5962-89523**

REVISION LEVEL  
**C**

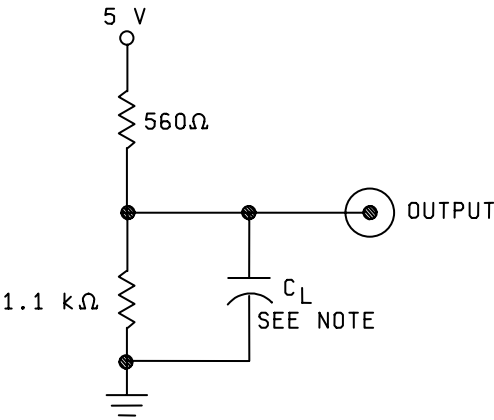
SHEET  
**9**



Device types	All	
Case outlines	E	2
Terminal number	Terminal symbol	
1	$\overline{OE}$ /NC 1/	$\overline{OE}$ /NC 1/
2	IR	IR
3	S1	NC
4	D <sub>0</sub>	S1
5	D <sub>1</sub>	D <sub>0</sub>
6	D <sub>2</sub>	D <sub>1</sub>
7	D <sub>3</sub>	D <sub>2</sub>
8	GND	NC
9	$\overline{MR}$	D <sub>3</sub>
10	Q <sub>3</sub>	GND
11	Q <sub>2</sub>	$\overline{MR}$
12	Q <sub>1</sub>	Q <sub>3</sub>
13	Q <sub>0</sub>	NC
14	OR	Q <sub>2</sub>
15	S0	Q <sub>1</sub>
16	V <sub>CC</sub>	Q <sub>0</sub>
17	---	OR
18	---	NC
19	---	S0
20	---	V <sub>CC</sub>

1/ For device types 05 - 08, OE will be replaced by NC.

FIGURE 1. Terminal connections.



NOTE: C<sub>L</sub> = 30 pF and includes jig and scope capacitance.

FIGURE 2. Output load circuit.

<b>STANDARD MICROCIRCUIT DRAWING</b> DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43218-3990	SIZE <b>A</b>		<b>5962-89523</b>
		REVISION LEVEL <b>C</b>	SHEET <b>10</b>

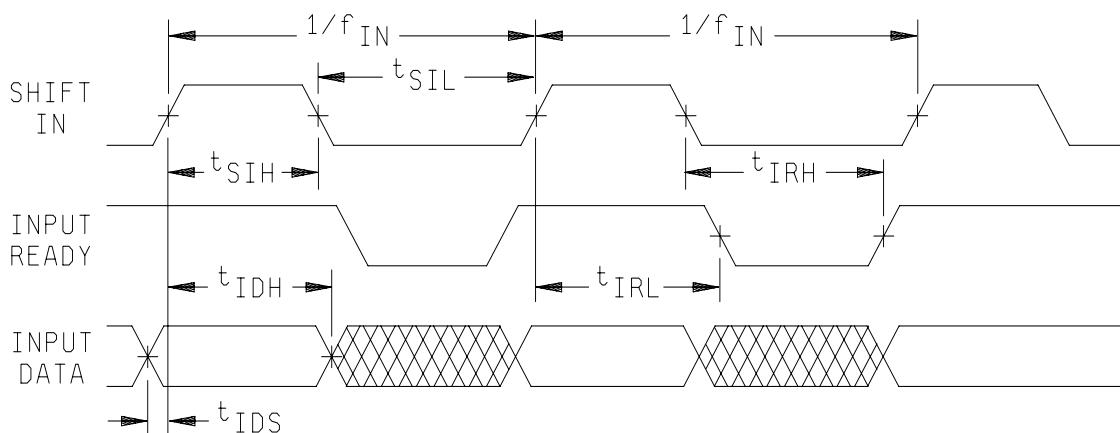
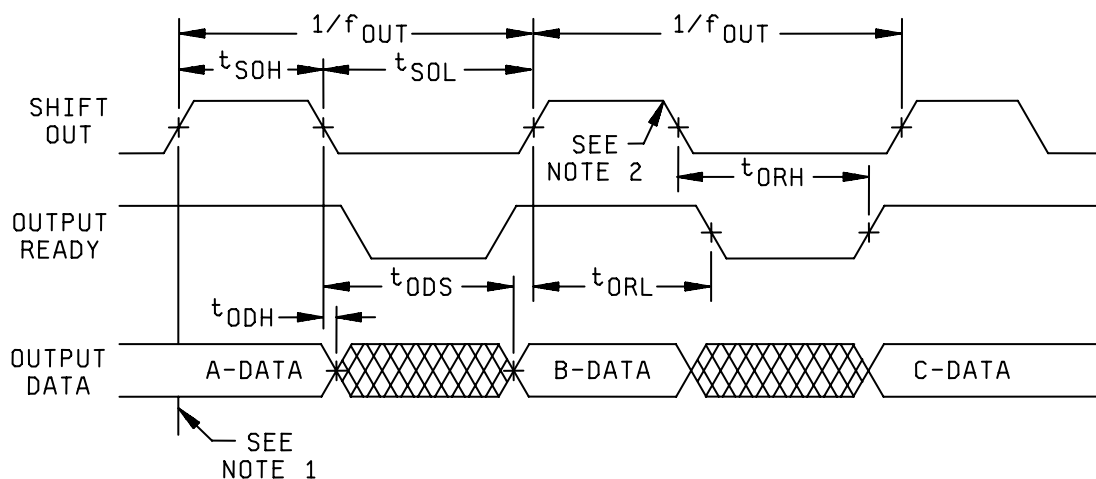


FIGURE 3. Input timing diagram.

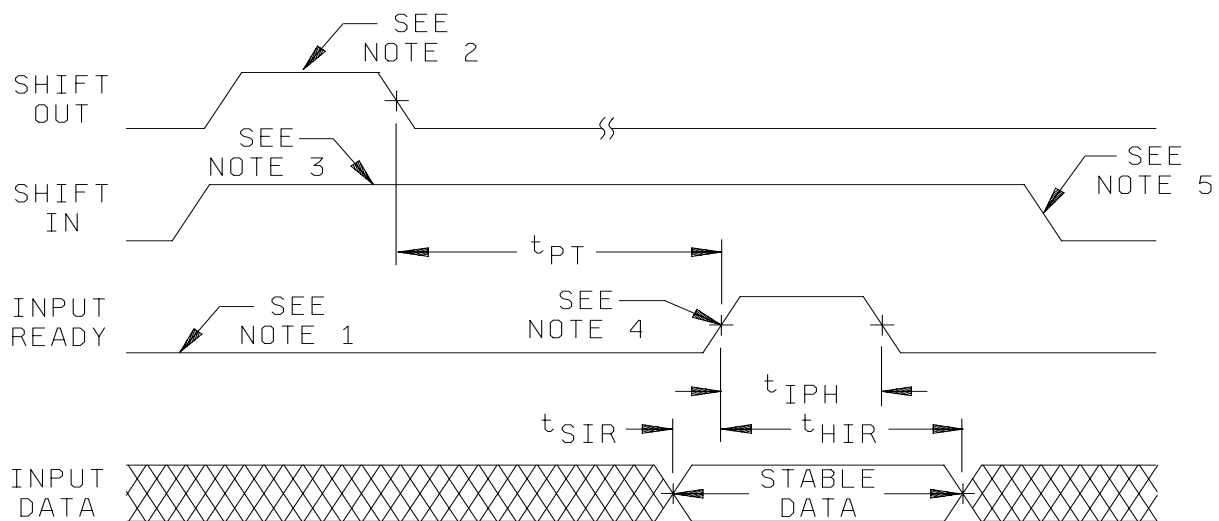


NOTES:

1. This data is loaded consecutively, A, B, C.
2. Data is shifted out when SHIFT OUT makes a high to low transition.

FIGURE 4. Output timing diagram.

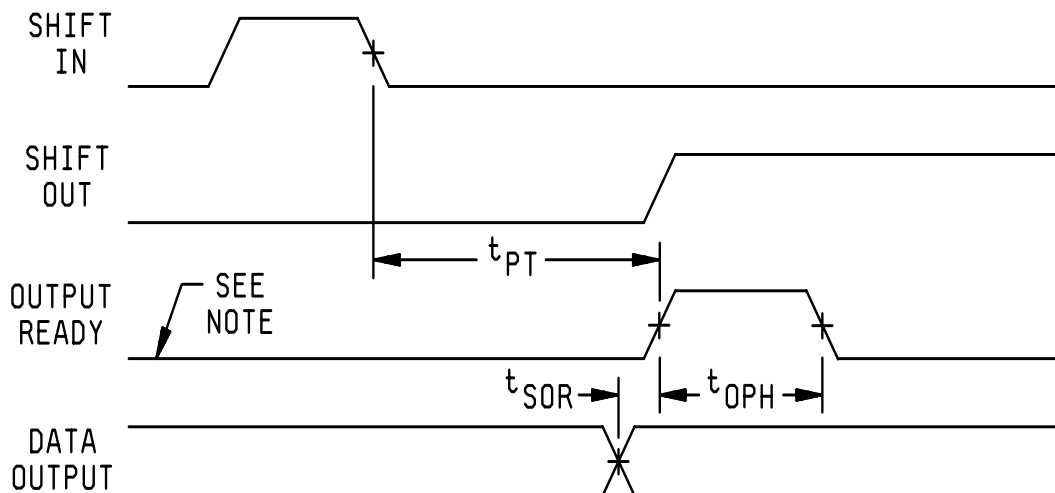
<b>STANDARD MICROCIRCUIT DRAWING</b> DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43218-3990	SIZE <b>A</b>		<b>5962-89523</b>
		REVISION LEVEL <b>C</b>	SHEET <b>11</b>



**NOTES:**

1. FIFO is initially full.
2. SHIFT OUT pulse is applied.
3. SHIFT IN is held high.
4. As soon as input ready becomes high the input data is loaded into the FIFO.
5. The write pointer is incremented.

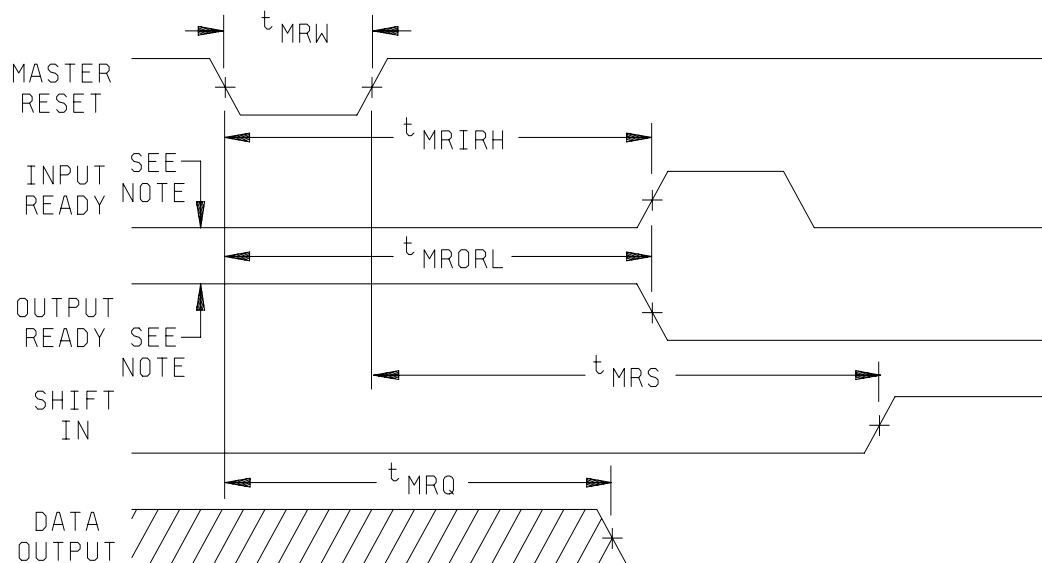
FIGURE 5.  $t_{IPH}$ ,  $t_{HIR}$ , and  $t_{SIR}$  timing diagram.



NOTE: FIFO initially empty.

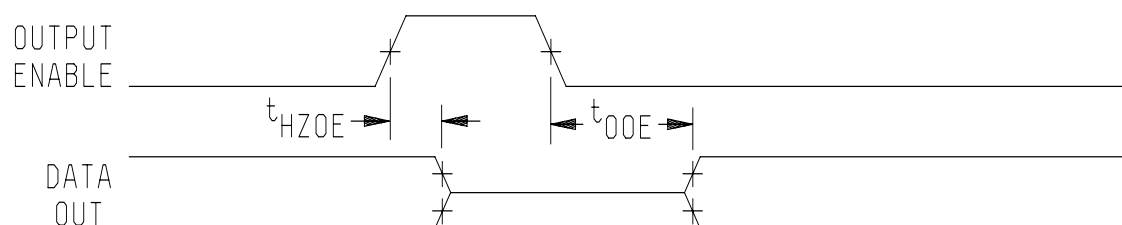
FIGURE 6.  $t_{PT}$  and  $t_{OPH}$  timing diagram.

<b>STANDARD MICROCIRCUIT DRAWING</b> DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43218-3990	SIZE <b>A</b>		<b>5962-89523</b>
		REVISION LEVEL <b>C</b>	SHEET <b>12</b>



NOTE: Worst case, FIFO initially full.

FIGURE 7. MASTER RESET timing.



NOTE: High-Z transitions are referenced to the steady-state  $V_{OH} - 500$  mV and  $V_{OL} + 500$  mV levels on the output.

FIGURE 8. Output enable timing (device types 01-04 only).

<b>STANDARD MICROCIRCUIT DRAWING</b> DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43218-3990	SIZE <b>A</b>		<b>5962-89523</b>
		REVISION LEVEL <b>C</b>	SHEET <b>13</b>

TABLE II. Electrical test requirements.

MIL-STD-883 test requirements	Subgroups (in accordance with MIL-STD-883, method 5005, table I)
Interim electrical parameters (method 5004)	- - -
Final electrical test parameters (method 5004)	1*, 2, 3, 7, 8A, 8B, 9, 10, 11
Group A test requirements (method 5005)	1, 2, 3, 4**, 7, 8A, 8B, 9, 10, 11
Groups C and D end-point electrical parameters (method 5005)	1, 2, 3, 7, 8A, 8B

1/ \* Indicates PDA applies to subgroups 1 and 7.

2/ Any or all subgroups may be combined when using high-speed testers.

3/ \*\* See 4.3.1c.

4/ As a minimum, subgroups 7 and 8 shall consist of verifying the data pattern.

## 5. PACKAGING

5.1 Packaging requirements. The requirements for packaging shall be in accordance with MIL-PRF-38535, appendix A.

## 6. NOTES

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

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 using DD Form 1692, Engineering Change Proposal.

6.4 Record of users. Military and industrial users shall inform Defense Supply Center Columbus (DSCC) when a system application requires configuration control and the applicable SMD. DSCC 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 DSCC-VA, telephone (614) 692-0544.

6.5 Comments. Comments on this drawing should be directed to DSCC-VA, Columbus, Ohio 43218-3990, or telephone (614) 692-0547.

6.6 Approved sources of supply. Approved sources of supply are listed in MIL-HDBK-103. The vendors listed in MIL-HDBK-103 have agreed to this drawing and a certificate of compliance (see 3.6 herein) has been submitted to and accepted by DSCC-VA.

<b>STANDARD MICROCIRCUIT DRAWING</b> DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43218-3990	SIZE <b>A</b>		<b>5962-89523</b>
		REVISION LEVEL <b>C</b>	SHEET <b>14</b>

## STANDARD MICROCIRCUIT DRAWING BULLETIN

DATE: 06-01-27

Approved sources of supply for SMD 5962-89523 are listed below for immediate acquisition information only and shall be added to MIL-HDBK-103 and QML-38535 during the next revision. MIL-HDBK-103 and QML-38535 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 DSCC-VA. This information bulletin is superseded by the next dated revision of MIL-HDBK-103 and QML-38535. DSCC maintains an online database of all current sources of supply at <http://www.dscclia.mil/Programs/Smcr/>.

Standard microcircuit drawing PIN <u>1</u> /	Vendor CAGE number	Vendor similar PIN <u>2</u> /
5962-8952301EA	61772	IDT72403L10DB
	<u>3</u> /	CY7C403-10DMB
5962-89523012A	<u>3</u> /	IDT72403L10LB
	<u>3</u> /	CY7C403-10LMB
5962-8952302EA	<u>3</u> /	IDT72403L15DB
	<u>3</u> /	CY7C403-15DMB
5962-89523022A	<u>3</u> /	IDT72403L15LB
	<u>3</u> /	CY7C403-15LMB
5962-8952303EA	<u>3</u> /	IDT72403L25DB
5962-89523032A	<u>3</u> /	IDT72403L25LB
5962-8952304EA	61772	IDT72403L35DB
5962-89523042A	<u>3</u> /	IDT72403L35LB
5962-8952305EA	61772	IDT72401L10DB
	0C7V7	CY7C401-10DMB
5962-89523052A	0C7V7	CY7C401-10LMB
5962-8952306EA	61772	IDT72401L15DMB
	0C7V7	CY7C401-15DMB
5962-89523062A	0C7V7	CY7C401-15LMB
5962-8952307EA	61772	IDT72401L25DB
5962-8952308EA	61772	IDT72401L35DB

- 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 its availability.
- 2/ Caution. Do not use this number for item acquisition. Items acquired to this number may not satisfy the performance requirements of this drawing.
- 3/ Not available from an approved source of supply.

Vendor CAGE  
number

61772

0C7V7

Vendor name  
and address

Integrated Device Technology, Inc.  
2975 Stender Way  
Santa Clara, CA 95054-8015

QP Semiconductor  
2945 Oakmead Village Court  
Santa Clara, CA 95051

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