

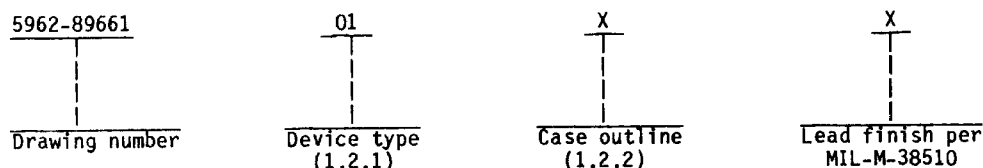
5962-E1350

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

1. SCOPE

1.1 Scope. 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 Device types. The device types shall identify the circuit function as follows:

Device type	Generic number	Circuit function	Shift rate
01	See 6.6	64 X 9 FIFO	15 MHz
02	See 6.6	64 X 9 FIFO	25 MHz

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
X	See figure 1, (28-lead, 1.490" x .310" x .200"), dual-in-line package
Y	F-11 (28-lead, .740" x .380" x .090"), flat package
3	C-4 (28-terminal, .460" x .460" x .100"), square chip carrier package

1.3 Absolute maximum ratings.

Supply voltage range	-0.5 V dc to +7.0 V dc
DC Input voltage	-3.0 V dc to +7.0 V dc
DC output current	20 mA
Maximum power dissipation	1.0 W
Lead temperature (soldering, 10 seconds)	+260°C
Thermal resistance, junction-to-case (θ_{JC}):	
Cases Y and 3	See MIL-M-38510, appendix C
Case X	26°C/W 1/
Junction temperature (T_J) 2/	+150°C
Storage temperature range	-65°C to +150°C
Temperature under bias	-55°C to +125°C

1.4 Recommended operating conditions.

Supply voltage range (V_{CC})	+4.5 V dc to +5.5 V dc
Ground voltage (GND)	0 V dc
Input high voltage (V_{IH})	2.2 V dc minimum
Input low voltage (V_{IL})	0.8 V dc maximum
Case operating temperature range (T_C)	-55°C to +125°C

1/ When a thermal resistance value is included in MIL-M-38510, appendix C, it shall supersede the value stated herein.

2/ Maximum junction temperature may be increased to +175°C during burn-in and steady-state life tests.

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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

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 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 Terminal connections. The terminal connections shall be as specified on figure 2.

3.2.2 Truth table. The truth table shall be as specified on figure 3.

3.2.3 Case outlines. The case outlines shall be in accordance with 1.2.2 herein.

3.2.4 Die overcoat. Polyimide and silicone coatings are allowable as an overcoat on the die for alpha particle protection provided that each coated microcircuit inspection lot (reference MIL-M-38510, 3.1.3.8) shall be subjected to and pass the Internal Water-Vapor Content (reference test method 1018 of MIL-STD-883). The frequency of the internal water vapor testing may not be decreased unless approved by the preparing activity.

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 operating temperature range.

3.4 Electrical test requirements. The electrical test requirements shall be the subgroups specified in table II. The electrical test for each subgroup are described in table I.

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TABLE I. Electrical performance characteristics.

Test	Symbol	Conditions -55°C ≤ T _C ≤ +125°C 4.5 V ≤ V _{CC} ≤ 5.5 V unless otherwise specified	Group A subgroups	Device types	Limits		Unit
					Min	Max	
Output high voltage	V _{OH}	V _{CC} = 4.5 V, I _{OH} = -4.0 mA V _{IN} = V _{IH} , V _{IL}	1, 2, 3	A11	2.4		V
Output low voltage	V _{OL}	V _{CC} = 4.5 V, I _{OL} = 8.0 mA V _{IN} = V _{IH} , V _{IL}	1, 2, 3	A11		0.4	V
Input high voltage	V _{IH} 2/		1, 2, 3	A11	2.2		V
Input low voltage	V _{IL} 2/		1, 2, 3	A11		0.8	V
Input leakage current	I _{IX}	V _{IN} = 5.5 V to GND	1, 2, 3	A11	-10	10	μA
DC supply current	I _{CC1}	V _{CC} = 5.5 V, I _{OUT} = 0 mA V _{IN} = 0 V and 3 V, f = 0	1, 2, 3	A11		125	mA
Operating supply current	I _{CC2}	V _{CC} = 5.5 V, I _{OUT} = 0 mA V _{IN} = 0 V and 3 V	1, 2, 3	A11		3/	
Input capacitance	C _{IN}	V _{CC} = 5.0 V T _A = +25°C, f = 1 MHz See 4.3.1c	4	A11		8	pF
Output capacitance	C _{OUT}	V _{CC} = 5.0 V T _A = +25°C, f = 1 MHz See 4.3.1c	4	A11		8	pF
Functional tests		See 4.3.1d	7, 8	A11			
Operating frequency	f ₀ 4/		9, 10, 11	01		15	MHz
				02		25	
SI high time	t _{PHSI} 4/	See figure 5	9, 10, 11	01	23		ns
				02	11		
SI low time	t _{PLSI} 4/		9, 10, 11	01	25		ns
				02	24		
Data setup to SI	t _{SSI} 5/		9, 10, 11	A11	0		ns

See footnotes at end of table.

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TABLE I. Electrical performance characteristics - Continued.

Test	Symbol	Conditions -55°C < T _C < +125°C 4.5 V < V _{CC} < 5.5 V unless otherwise specified	1/ Group A subgroups	Device types	Limits		Unit
					Min	Max	
Data hold from SI	t _{HSI} _{5/}	See figure 5	9, 10, 11	01	30		ns
				02	20		
Delay, SI high to IR low	t _{DLIR}		9, 10, 11	01		35	ns
				02		21	
Delay, SI low to IR high	t _{DHIR}		9, 10, 11	01		40	ns
				02		23	
SO high time	t _{PHSO} _{4/}		9, 10, 11	01	23		ns
				02	11		
SO low time	t _{PLSO} _{4/}		9, 10, 11	01	25		ns
				02	24		
Delay, SO high to OR low	t _{DLOR}		9, 10, 11	01		35	ns
				02		21	
Delay, SO low to OR high	t _{DHOR}		9, 10, 11	01		40	ns
				02		23	
Data Setup to OR high	t _{SOR}		9, 10, 11	A11	0		ns
Data hold from SO low	t _{HSO}		9, 10, 11	A11	0		ns
Fallthrough, bubbleback time	t _{BT}		9, 10, 11	01	10	65	ns
				02	10	60	
Data setup to IR	t _{SIR} _{6/}		9, 10, 11	A11	5		ns
Data hold from IR	t _{HIR} _{6/}		9, 10, 11	01	30		ns
				02	20		
Input ready pulse high	t _{pIR} _{7/}		9, 10, 11	A11	6		ns

See footnotes at end of table.

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TABLE I. Electrical performance characteristics - Continued.

Test	Symbol	Conditions -55°C < T _C < +125°C 4.5 V < V _{CC} < 5.5 V unless otherwise specified	Group A subgroups	Device types	Limits		Unit
					Min	Max	
Output ready pulse high	t _{POR} 8/	See figure 5	9, 10, 11	A11	6		ns
SI low to HF high	t _{DHMF}					65	ns
				02		55	
SO low to HF low	t _{DLHF}		9, 10, 11	01		65	ns
						55	
SO or SI low to AFE low	t _{DLAFF}		9, 10, 11	01		65	ns
						55	
SO or SI low to AFE high	t _{DHAFE}		9, 10, 11	01		65	ns
						55	
				02		55	
MR pulse width	t _{PMR}		9, 10, 11	01	55		ns
						45	
MR high to SI high	t _{DSI}		9, 10, 11	01	25		ns
						10	
				02			
MR low to OR low	t _{DOR}		9, 10, 11	01		55	ns
						45	
				02			
MR low to IR high	t _{DIR}		9, 10, 11	01		55	ns
						45	
				02			
MR low to output low	t _{LZMB} 9/		9, 10, 11	01		55	ns
						45	
				02			

See footnotes at end of table.

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TABLE I. Electrical performance characteristics - Continued.

Test	Symbol	Conditions -55°C < T _C < +125°C 4.5 V < V _{CC} < 5.5 V unless otherwise specified	Group A subgroups	Device types	Limits		Unit
					Min	Max	
MR low to AFE high	t _{AFE}	See figure 5	9, 10, 11	01		55	ns
				02		45	
MR low to HF low	t _{HF}		9, 10, 11	01		55	ns
				02		45	

- 1/ AC tests are performed with input rise and fall times of 5 ns or less, timing reference levels of 1.5 V, input pulse levels of 0 V to 3.0 V, and the output load on figure 4.
- 2/ These are absolute values with respect to device ground and all overshoots due to system or tester noise are included.
- 3/ Subgroups 1, 2, and 3 tests for I_{CC2} shall be tested to the calculated limit for initial test and after any design or process changes which may affect this parameter. To calculate I_{CC2} at any given operating frequency, use I_{CC1} + (1 mA/MHz) × (1/f_{OSI} + 1/f_{OSO})/2.
- 4/ 1/f_O ≥ (t_{PHSI} + t_{PLSI}), 1/f_O ≥ (t_{PHSO} + t_{PLSO}).
- 5/ The parameters t_{SSI} and t_{HSI} apply when memory is not full.
- 6/ The parameters t_{SIR} and t_{HIR} apply when memory is full, SI is high and minimum bubblethrough (t_{BT}) conditions exist.
- 7/ At any given operating condition t_{PIR} ≥ (t_{PHSO} required).
- 8/ At any given operating condition t_{POR} ≥ (t_{PHSI} required).
- 9/ All data outputs will be at low level after reset goes high until data is entered into the FIFO.

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).

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-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 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-ECS 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.

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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 D or E using the circuit submitted with the certificate of compliance (see 3.6 herein).

(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 (C_{IN} and C_{OUT} measurements) shall be measured only for the initial test and after any process or design changes which may affect input or output capacitance. Sample size is 15 devices with no failures, and all input and output terminals tested.

d. Subgroup 7 and 8 tests shall include verification of the truth table.

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 D or E using the circuit submitted with the certificate of compliance (see 3.6 herein).

(2) $T_A = +125^{\circ}\text{C}$, minimum.

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

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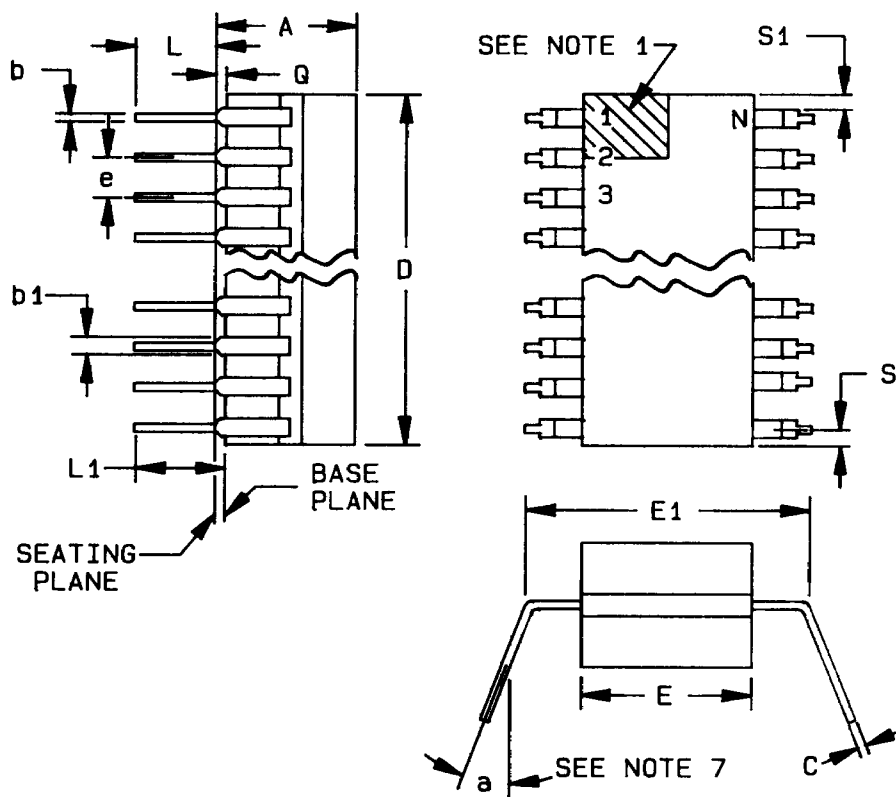


FIGURE 1. Case X (28-pin, 1.490" x .310" x .200"), dual-in-line package.

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Dimensions					
Symbol	Inches		Millimeters		Notes
	Min	Max	Min	Max	
A	---	.200	---	5.08	
b	.014	.023	0.36	0.58	8
b ₁	.038	.065	0.96	1.65	2, 8
c	.008	.015	0.20	0.38	8
D	---	1.490	---	37.89	4
E	.220	.310	5.59	7.87	4
E ₁	.290	.320	7.37	8.13	7

Dimensions					
Symbol	Inches		Millimeters		Notes
	Min	Max	Min	Max	
e	.100 BSC		2.54 BSC		5, 9
L	.125	.200	3.18	5.08	
L ₁	.150	---	3.81	---	
Q	.015	.060	0.38	1.52	3
S	---	.100	---	2.54	6
S ₁	.005	---	0.13	---	6
α	0°	15°	0°	15°	

NOTES:

1. Index area: A notch or a pin one identification mark shall be located adjacent to pin one and shall be located within the shaded area shown. The manufacturer's identification shall not be used as a pin one identification mark.
2. The minimum limit for dimension b₁ may be .023 (0.58 mm) for leads number 1, 14, 15, and 28 only.
3. Dimension Q shall be measured from the seating plane to the base plane.
4. This dimension allows for off-center lid, meniscus, and glass overrun.
5. The basic pin spacing is .100 (2.54 mm) between centerlines. Each pin centerline shall be located within ±.010 (0.25 mm) of its exact longitudinal position relative to pins 1 and 28.
6. Applies to all four corners (leads number 1, 14, 15, and 28) shall apply.
7. Lead center when α is 0°. E₁ shall be measured at the centerline of the leads.
8. All leads: Increase maximum limit by .003 (0.08 mm) measured at the center of the flat, when lead finish A or B is applied.
9. Twenty-six spaces.
10. If this configuration is used, no organic or polymeric materials shall be molded to the bottom of the package to cover the leads.

FIGURE 1. Case X (28-pin, 1.490" x .310" x .200"), dual-in-line package - Continued.

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Device types	All
Case outlines	X, Y, and 3
Terminal number	Terminal symbol
1	AFE
2	HF
3	IR
4	SI
5	D10
6	D11
7	GND
8	D12
9	D13
10	D14
11	D15
12	D16
13	D17
14	D18
15	D08
16	D07
17	D06
18	D05
19	D04
20	D03
21	D02
22	GND
23	D01
24	D00
25	OR
26	SO
27	MR
28	VCC

FIGURE 2. Terminal connections.

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Mode	Input control			Output control	
	SI	SO	MR	IR	OR
Read	X	See note 1	H	X	H
Write	See note 2	X	H	H	X
Reset	X	X	L	X	X

NOTES:

1. High to low transition.
2. Low to high transition.

FIGURE 3. Truth table.

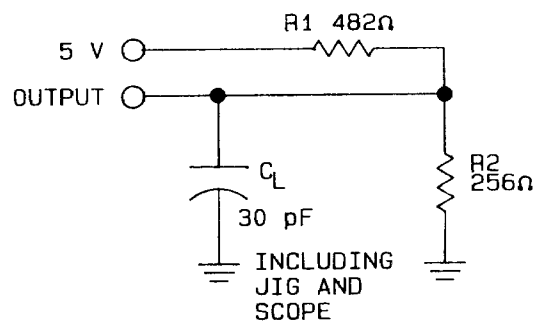
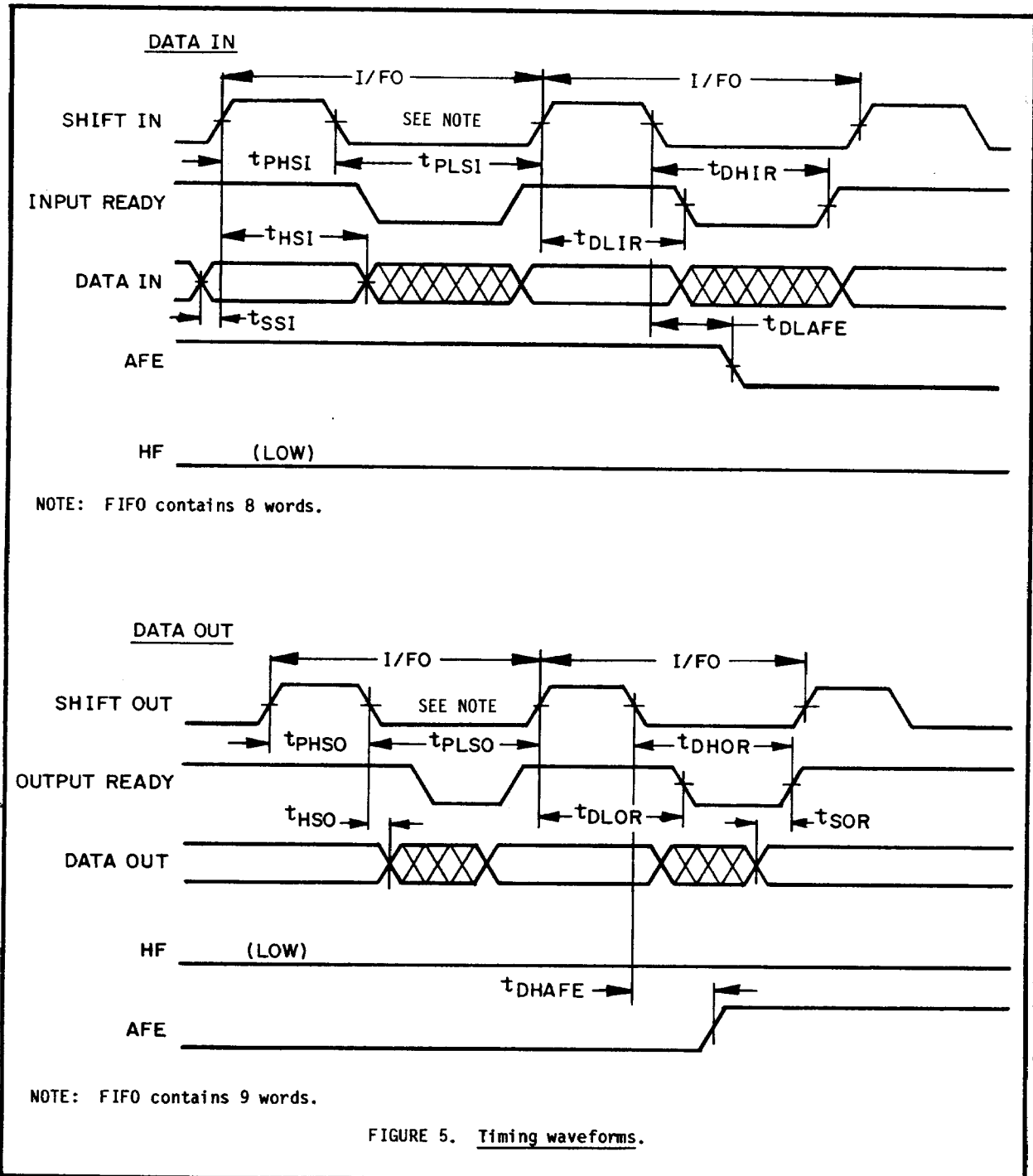


FIGURE 4. Output load circuit.

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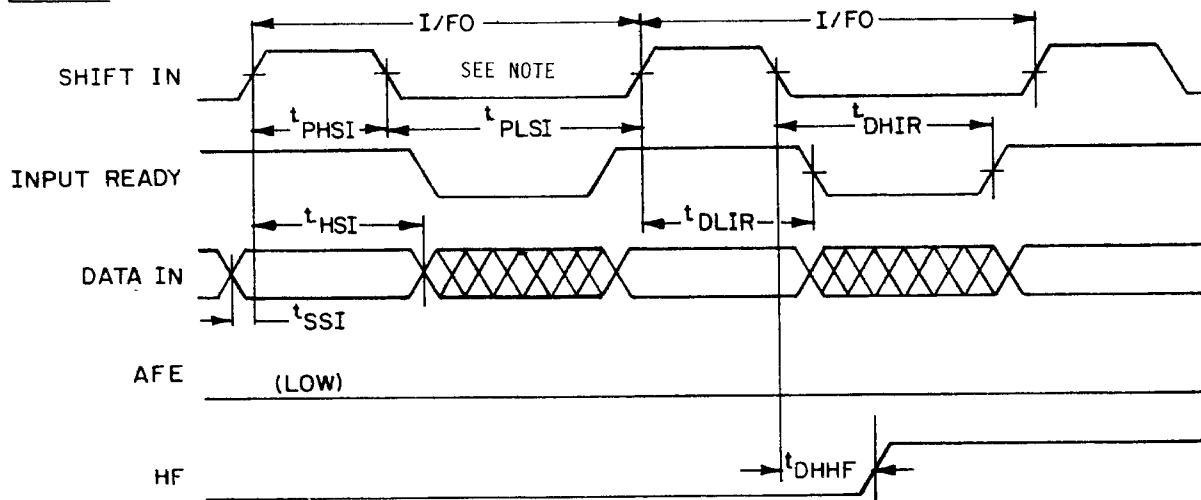


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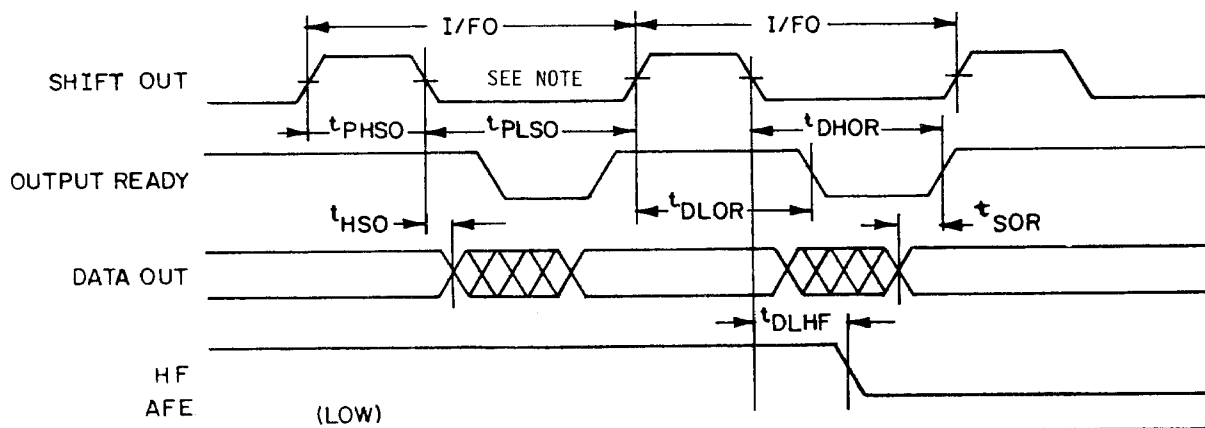
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DATA IN



NOTE: FIFO contains 31 words.

DATA OUT



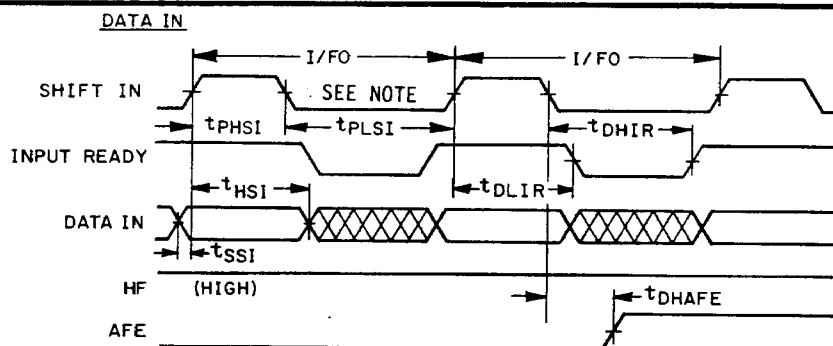
NOTE: FIFO contains 32 words.

FIGURE 5. Timing waveforms - Continued.

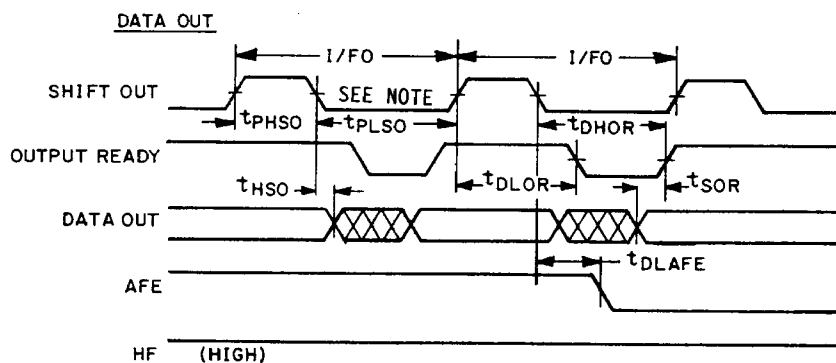
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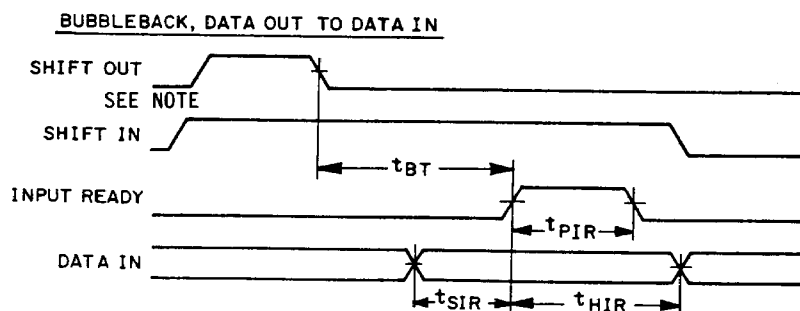
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NOTE: FIFO contains 55 words.



NOTE: FIFO contains 56 words.



NOTE: FIFO contains 64 words.

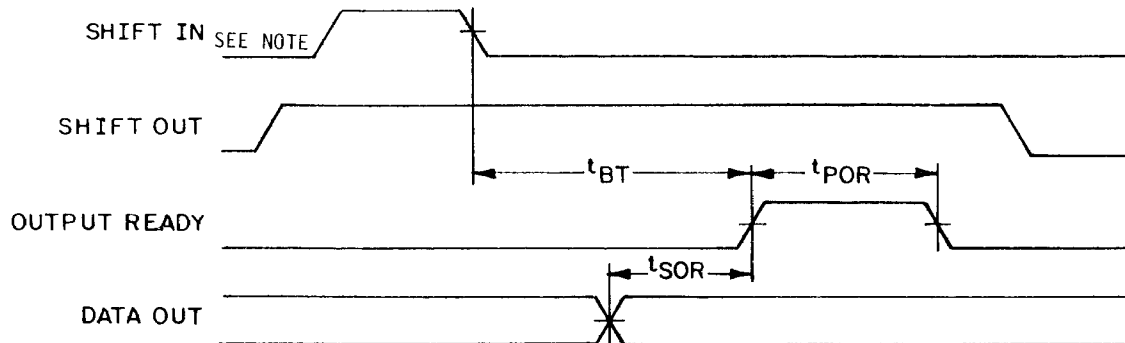
FIGURE 5. Timing waveforms - Continued.

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FALLTHROUGH, DATA IN TO DATA OUT DIAGRAM



NOTE: FIFO is empty.

MASTER RESET

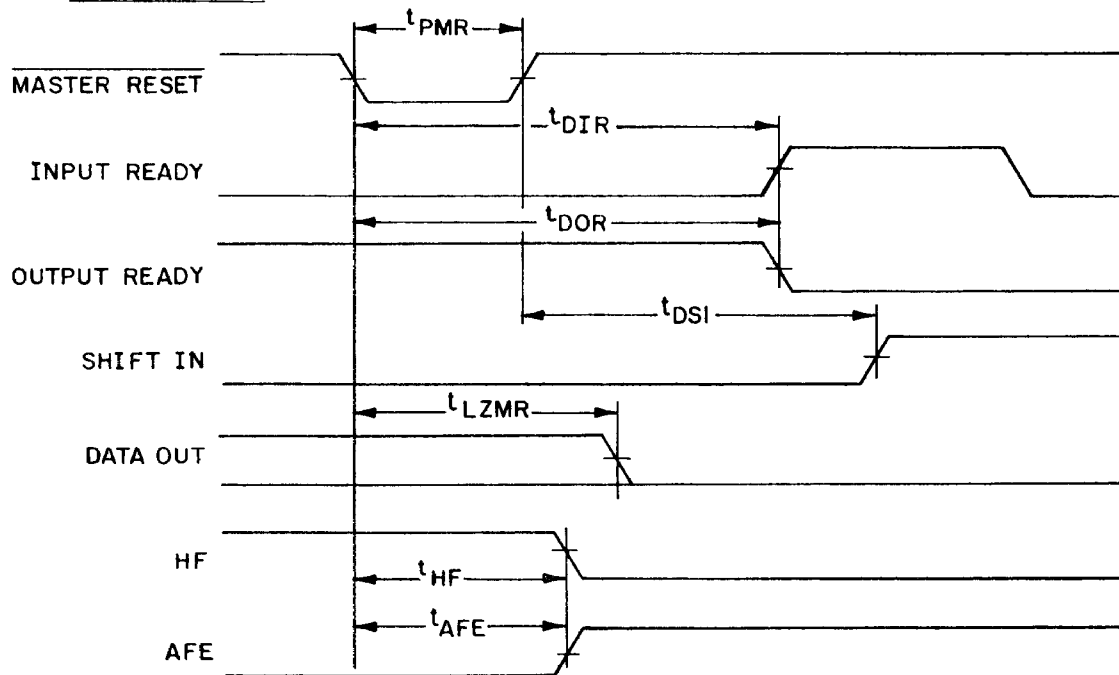


FIGURE 5. Timing waveforms - Continued.

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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)	---
Final electrical test parameters (method 5004)	1*,2,3,7*,8, 9,10,11
Group A test requirements (method 5005)	1,2,3,4**,7***, 8***,9,10,11
Groups C and D end-point electrical parameters (method 5005)	2,3,7,8

* PDA applies to subgroups 1 and 7.

** For subgroup, see 4.3.1c.

*** For subgroups 7 and 8, see 4.3.1d.

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-ECS, telephone (513) 296-6022.

6.5 Comments. Comments on this drawing should be directed to DESC-ECS, Dayton, Ohio 45444, or telephone (513) 296-5375.

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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-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>	Replacement military specification part number
5962-8966101XX	65786	CY7C409A-15DMB	
5962-8966101YX	65786	CY7C409A-15KMB	
5962-89661013X	65786	CY7C409A-15LMB	
5962-8966102XX	65786	CY7C409A-25DMB	
5962-8966102YX	65786	CY7C409A-25KMB	
5962-89661023X	65786	CY7C409A-25LMB	

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

65786

Vendor name
and address

Cypress Semiconductor
3901 N. First Street
San Jose, CA 95134

STANDARDIZED MILITARY DRAWING DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO 45444	SIZE A		5962-89661
		REVISION LEVEL	SHEET 18

DESC FORM 193A
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