										ONS										
LTR	DESCRIPTION							DA	ATE (Y	R-MO-I	DA)		APPF		APPROVED					
А	Add vendors 27014, 18714, and 04713. Changes to recom conditions, table I, and table II gap				recomr	nendeo	d opera	iting	86-02-25 Nelson A. H			lauck								
В		ert to m outline			forma	t. Add v	vendor	CAGE	27014	to				88-0)2-12		Mich	ael A. I	Frye	
С	fall ti in ta	mes at ble I. U	V _{CC} = 2 pdate	s to 1.4, recommended operating conditions for the rise and = 2.0 V. Make corrections to conditions for V _{OH} and V _{OL} tests e the drawing to the current requirements of MIL-PRF-38535. s throughout jak						12-0)1-23		Thor	mas M.	Hess					
CURRENT	CAGE	COD	E 672	268																
	CAGE	COD	E 672	268																
REV	CAGE	COD	E 672	268																
REV SHEET	CAGE	COD	E 672	268																
REV SHEET REV				268																
REV SHEET REV SHEET	15	COD	E 672																	
REV SHEET REV SHEET REV STATUS	15			REV			C	C	C	C	C	C	C	C	C	C	C	C		
REV SHEET REV SHEET	15						C 1	C 2	C 3	C 4	C 5	C 6	C 7	C 8	C 9	C 10	C 11	C 12		
REV SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A	15	16		REV SHE PRE	ET PAREI	Greg A	1		_	-		6 C(7 DLA I DLUM	8 LAND	9 ANC, OHIO	10 0 MAF 0 432	11 RITIM 218-3	12 E 990		
REV SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A	15 NDA	16 RD		REV SHE PRE	ET PAREI CKED	Greg A BY	1 A. Pitz	2	_	-		6 C(7 DLA I DLUM	8 LAND	9 ANC, OHIO	10 0 MAF 0 432	11 RITIM 218-3	12 E		
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REV SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A STA MICR(16 RD CUIT		REV SHE PRE CHE	ET PAREI CKED	Greg A BY D. A. D D BY	1 A. Pitz iCenzo	2	_	4	5	6 C(http:	7 DLA I DLUM	8 IBUS w.lan	9 O ANE , OHIO dando	10 0 MAF 0 432 marit	11 RITIM 218-3 ime.d	12 E 990 la.mil		
REV SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A STA MICRO DR THIS DRAWI		16 RD CUIT G	17	REV SHE PRE CHE	EET PAREI CKED PROVE	Greg A BY D. A. D	1 A. Pitz iCenzc Hauck	2	_	4 • MIC	5 CROC	6 CC http: CIRC	7 DLA DLUM	8 IBUS w.lan	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	10 D MAF D 432 marit	11 RITIM 218-3 ime.d	12 E 990 Ia.mil		6,
REV SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A STA MICRO DR THIS DRAWI	INDAR OCIRC AWIN	The second secon	17 BLE	REV SHE PRE CHE	EET PAREI CKED PROVE	Greg A BY <u>D. A. D</u> D BY N. A. H	1 A. Pitz iCenzo Hauck DVAL D	2	_	4 MIC 4-B	5 CROC	6 CC http: CIRCI	7 DLA I DLUM ://www UIT, I IRON	8 IAND IBUS W.lan	9 AND , OHIO dand	10 D MAF D 432 marit	11 RITIM 218-3 ime.d	12 E 990 la.mil		
REV SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A STA MICR(DR THIS DRAWI FOR L DEPA AND AGE DEPARTME	INDAR OCIRC AWIN	16 RD CUIT G VAILAI ALL JTS OF THE DEFEN	17 BLE	REV SHE PRE CHE DRA	ET PAREI CKED PROVE	Greg A BY D. A. D D BY N. A. H APPRC 84-02	1 iCenzo Hauck DVAL D 9-28	2	_	4 MIC 4-B SYO	5 CROC IT SY CHRC	6 CC http: CIRCI (NCH ONO)	7 DLA I DLUM JIT, I IRON US R	8 IAND IBUS W.lan DIGIT JOUS ESE	9 AND , OHIO dand	10 0 MAF 0 432 marit	11 RITIM 218-3 ime.d I SPE UNT _ITHI	12 E 990 Ia.mil		
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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: 84094 01 Drawing number Device type Case outline Lead finish (see 1.2.1) (see 1.2.2) (see 1.2.3) 1.2.1 Device type(s). The device type(s) identify the circuit function as follows: Device type Generic number Circuit function 01 54HC162 4-bit synchronous BCD counter with synchronous reset 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 GDIP1-T16 or CDIP2-T16 Dual-in-line Е 16 F GDFP2-F16 or CDFP3-F16 16 Flat pack 2 CQCC1-N20 20 Square chip carrier 1.2.3 Lead finish. The lead finish is as specified in MIL-PRF-38535, appendix A. 1.3 Absolute maximum ratings. 1/ DC input voltage range (V_{IN}) -0.5 V dc to V_{CC} + 0.5 V dc DC output voltage range (V_{OUT}) -0.5 V dc to V_{CC} + 0.5 V dc Clamp diode current (I_{IK}, I_{OK})..... ±20 mA DC output current (per pin) (I_{OUT}) ±25 mA DC V_{CC} or GND current (per pin) ±50 mA Maximum power dissipation (P_D) 500 mW 2/ Lead temperature (soldering, 10 seconds).....+260°C Thermal resistance, junction-to-case (θ_{JC})...... See MIL-STD-1835 Junction temperature (T_J)..... +175°C 1.4 Recommended operating conditions. 3/ Supply voltage range (V_{CC}) +2.0 V dc to +6.0 V dc Case operating temperature range (T_c) -55°C to +125°C Input rise or fall time (t_r, t_f) : V_{CC} = 4.5 V 0 to 500 ns 1/ Unless otherwise specified, all voltages are referenced to ground. 2/ For $T_c = +100^{\circ}C$ to $+125^{\circ}C$, derate linearly at 12 mW/°C. 3/ See figure 4. SIZE STANDARD 84094 Α MICROCIRCUIT DRAWING DLA LAND AND MARITIME SHEET **REVISION LEVEL**

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1.4 Recommended operating conditions - Continued. 3/ Minimum recovery time, CLEAR to CLOCK (tREC): $T_{C} = +25^{\circ}C$: V_{CC} = 2.0 V..... 125 ns V_{CC} = 4.5 V..... 25 ns $T_{c} = -55^{\circ}C$ and $+125^{\circ}C$: Minimum setup time, load, CLEAR or DATA, to CLOCK (ts): $T_{C} = +25^{\circ}C$: V_{CC} = 2.0 V..... 150 ns V_{CC} = 6.0 V..... 26 ns $T_{\rm C} = -55^{\circ}$ C and $+125^{\circ}$ C: V_{CC} = 2.0 V..... 225 ns V_{CC} = 4.5 V...... 45 ns Minimum setup time, enable to CLOCK (ts): $T_{C} = +25^{\circ}C$: V_{CC} = 2.0 V..... 175 ns $T_C = -55^{\circ}C$ and $+125^{\circ}C$: V_{CC} = 4.5 V..... 52 ns V_{CC} = 6.0 V..... 44 ns Minimum pulse width, LOAD, CLEAR or CLOCK (tw): T_C = +25°C: V_{CC} = 2.0 V..... 100 ns V_{CC} = 6.0 V..... 17 ns $T_{\rm C} = -55^{\circ}$ C and $+125^{\circ}$ C: V_{CC} = 2.0 V..... 150 ns Minimum hold time, DATA from CLOCK (t_h): Tc = +25°C: V_{CC} = 4.5 V..... 10 ns V_{CC} = 6.0 V...... 9 ns $T_C = -55^{\circ}C$ and $+125^{\circ}C$: V_{CC} = 4.5 V..... 15 ns V_{CC} = 6.0 V..... 13 ns Maximum hold time, enable, LOAD, or CLEAR from CLOCK (t_h): T_C = +25°C: $V_{CC} = 4.5 V.....5 ns$ V_{CC} = 6.0 V..... 5 ns $T_{\rm C} = -55^{\circ}{\rm C}$ and $+125^{\circ}{\rm C}$: V_{CC} = 4.5 V...... 8 ns SIZE STANDARD 84094 Α MICROCIRCUIT DRAWING **REVISION LEVEL** SHEET

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DLA LAND AND MARITIME COLUMBUS, OHIO 43218-3990 1.4 Recommended operating conditions - Continued. 3/

Maximum CLOCK frequency (f_{CL}): T _C = +25°C:	
V _{CC} = 2.0 V	5 MHz
V _{CC} = 4.5 V	25 MHz
V _{CC} = 6.0 V	29 MHz
$T_{\rm C}$ = -55°C and +125°C:	
V _{CC} = 2.0 V	3.4 MHz
V _{CC} = 4.5 V	17 MHz
$V_{CC} = 6.0 V$	20 MHz

2. APPLICABLE DOCUMENTS

2.1 <u>Government specification, standards, and handbooks</u>. 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 https://assist.daps.dla.mil/quicksearch/ or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.)

2.2 <u>Order of precedence</u>. 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 <u>Item requirements</u>. 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 <u>Design, construction, and physical dimensions</u>. The design, construction, and physical dimensions shall be as specified in MIL-PRF-38535, appendix A and herein.

3.2.1 <u>Case outlines</u>. The case outlines shall be in accordance with 1.2.2 herein.

3.2.2 <u>Terminal connections</u>. The terminal connections shall be as specified on figure 1.

3.2.3 <u>Truth table</u>. The truth table shall be as specified on figure 2.

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3.2.4 Logic diagram. The logic diagram shall be as specified on figure 3.

3.2.5 Switching waveforms and test circuit. The switching waveforms and test circuit shall be as specified on figure 4.

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-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 <u>Certification/compliance mark</u>. 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.

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-HDBK-103 (see 6.6 herein). The certificate of compliance submitted to DLA Land and Maritime-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 <u>Certificate of conformance</u>. 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 <u>Notification of change</u>. Notification of change to DLA Land and Maritime -VA shall be required for any change that affects this drawing.

3.9 <u>Verification and review</u>. DLA Land and Maritime, DLA Land and Maritime'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	Condition -55°C \leq T _C unless otherw	Group A subgroups	Limits		Unit	
			_		Min	in Max	
High level output voltage	V _{OH}	$V_{IN} = V_{IH} \text{ or } V_{IL}$	$V_{CC} = 2.0 V$	1, 2, 3	1.9		V
		I _{OH} = -20 μA	$V_{CC} = 4.5 V$		4.4		_
			$V_{CC} = 6.0 V$	_	5.9		
		$V_{IN} = V_{IH} \text{ or } V_{IL}$ $I_{OH} = -4.0 \text{ mA}$	V _{CC} = 4.5 V	_	3.7		
		$V_{IN} = V_{IH} \text{ or } V_{IL}$ $I_{OH} = -5.2 \text{ mA}$	V _{CC} = 6.0 V		5.2		
_ow level output voltage	V _{OL}	$V_{\text{IN}} = V_{\text{IH}} \text{ or } V_{\text{IL}}$	$V_{CC} = 2.0 V$	1, 2, 3		0.1	V
		$I_{OL} = +20 \ \mu A$	$V_{CC} = 4.5 V$	_		0.1	_
			$V_{CC} = 6.0 V$	_		0.1	
		$V_{IN} = V_{IH} \text{ or } V_{IL}$ $I_{OL} = +4.0 \text{ mA}$	$V_{CC} = 4.5 V$			0.4	
		$V_{IN} = V_{IH} \text{ or } V_{IL}$ $I_{OL} = +5.2 \text{ mA}$	$V_{CC} = 6.0 V$			0.4	0.4
High level input voltage	VIH		$V_{CC} = 2.0 V$	1, 2, 3	1.5		V
	<u>2</u> /		$V_{CC} = 4.5 V$		3.15		
			$V_{CC} = 6.0 V$		4.2		
Low level input voltage	VIL			1, 2, 3		0.3	V
	<u>2</u> /		$V_{CC} = 4.5 V$			0.9	
			$V_{CC} = 6.0 V$			1.2	
nput capacitance	C _{IN}	$V_{IN} = 0.0 V, T_C = +2$ See 4.3.1c	25°C	4		10	pF
Quiescent supply current	Icc	$V_{CC} = 6.0 \text{ V}, \text{ V}_{IN} = \text{V}$	/cc or GND	1, 2, 3		160	μA
nput leakage current	I _{IN}	$V_{CC} = 6.0 \text{ V}, \text{ V}_{IN} = \text{ V}$		1, 2, 3		±1.0	μΑ
Functional tests		See 4.3.1d	00	7			pu .
Propagation delay time,	t _{PHL1}	C _L = 50 pF ±10%	V _{CC} = 2.0 V	9		225	ns
CLOCK to RCO	t _{PLH1}	See figure 4	100 100	10, 11		340	1
	<u>3</u> /		V _{CC} = 4.5 V	9		43	
				10, 11		65	
			$V_{CC} = 6.0 V$	9		37	
				10, 11		55	
Propagation delay time,	t _{PHL2} ,	C _L = 50 pF ±10%	$V_{CC} = 2.0 V$	9		205	ns
CLOCK to Q	t _{PLH2}	See figure 4		10, 11		310]
	<u>3</u> /		$V_{CC} = 4.5 V$	9		42	
				10, 11		62	
			$V_{CC} = 6.0 V$		35	1	
				10, 11		53	1

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Test	$\begin{tabular}{c} $Condition $\\ Symbol $$ $-55^{\circ}C \leq T_C \leq $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $		≤ +125°C	Group A subgroups	Limits		Unit	
					Min	Max	IX	
Propagation delay time,	t _{PHL3} ,	$C_{L} = 50 \text{ pF} \pm 10\%$	$V_{CC} = 2.0 V$	9		195	ns	
ENT to RCO	t _{PLH3}	See figure 4		10, 11		295		
	<u>3</u> /		$V_{CC} = 4.5 V$	9		39		
				10, 11		59		
			$V_{CC} = 6.0 V$	9		33		
				10, 11		50		
Transition time	t _{THL} ,	C _L = 50 pF ±10%	$V_{CC} = 2.0 V$	9		75	ns	
	t _{TLH}	See figure 4		10, 11		110		
	<u>4</u> /	-	$V_{CC} = 4.5 V$	9		15	7	
				10, 11		22		
			$V_{CC} = 6.0 V$	9		13		
				10, 11		19		

TABLE I. Electrical performance characteristics – Continued.

<u>1</u>/ For a power supply of 5.0 V ±10%, the worst case output voltages (V_{OH} and V_{OL}) occur for HC at V_{CC} = 4.5 V. Thus, the 4.5 V values should be used when designing with this supply. Worst case V_{IH} and V_{IL} occur at V_{CC} = 5.5 V and 4.5 V, respectively. (The V_{IH} value at 5.5 V is 3.85 V). The worst case leakage currents (I_{IN} , I_{CC} , and I_{OZ}) occur for CMOS at the higher voltage so the 6.0 V value should be used. Power dissipation capacitance (C_{PD}), typically 90 pF, determines the no-load dynamic power consumption (P_D) and the no-load dynamic current consumption (I_S). Where:

 $P_{\rm D} = C_{\rm PD} V_{\rm CC}^2 f + I_{\rm CC} V_{\rm CC}$

 $I_{\rm S} = C_{\rm PD} V_{\rm CC} f + I_{\rm CC}$

f is the frequency of the input signal.

 $\underline{2}/~V_{IH}$ and V_{IL} tests not required if applied as a forcing function for V_{OH} or $V_{OL}.$

3/ AC testing at V_{CC} = 2.0 V and V_{CC} = 6.0 V shall be guaranteed, if not tested, to the specified limits.

 $\underline{4}$ / Transition time (t_{TLH}, t_{THL}), if not tested, shall be guaranteed to the specified limits.

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Device type	A	I
Case outlines	E and F	2
Terminal number	Terminal symbol	Terminal symbol
1	CLEAR	NC
2	CLOCK	CLEAR
3	A	CLOCK
4	В	А
5	С	В
6	D	NC
7	ENP	С
8	GND	D
9	LOAD	ENP
10	ENT	GND
11	Q _D	NC
12	Q _C	LOAD
13	Q _B	ENT
14	Q _A	Q _D
15	RCO	Q _C
16	Vcc	NC
17		Q _B
18		Q _A
19		RCO
20		Vcc

NC = No internal connection

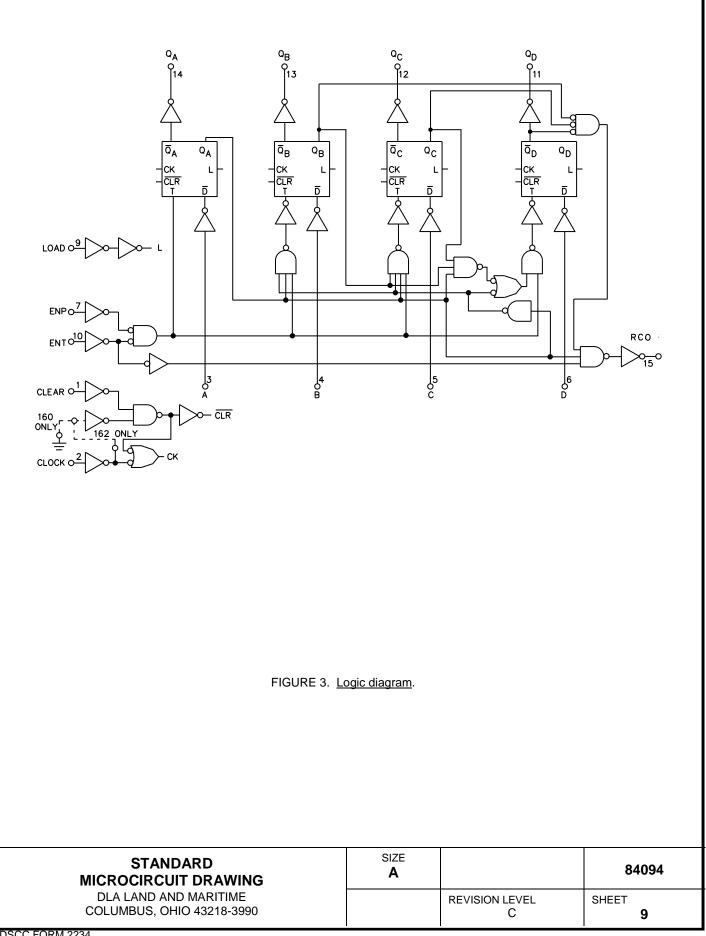
FIGURE 1. T	Ferminal connection	ns.
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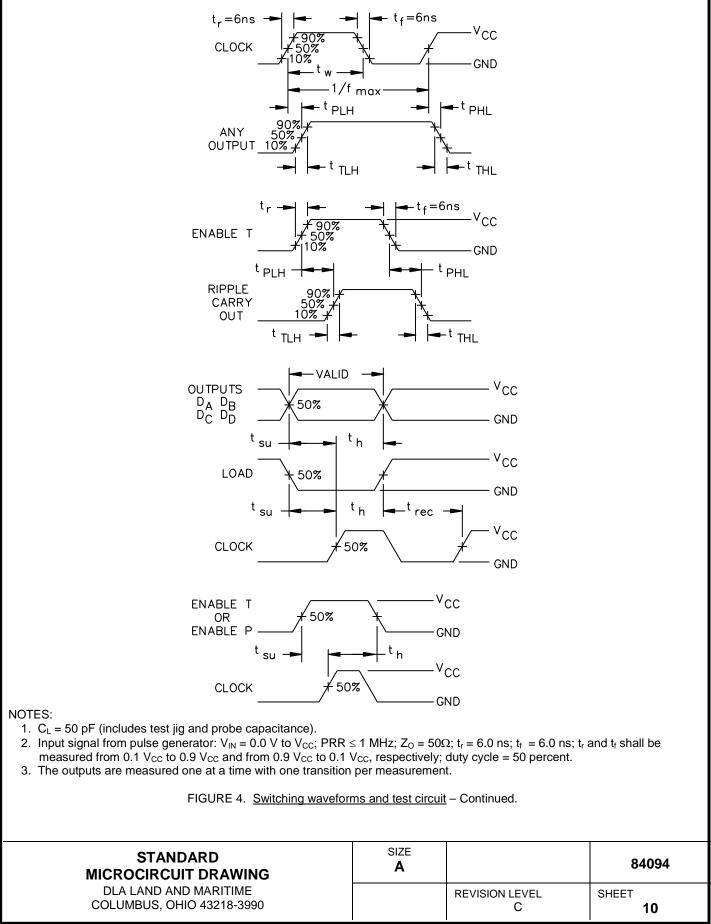
CLOCK	CLEAR	ENP	ENT	LOAD	Function
1	L	х	Х	Х	Clear
Х	Н	Н	L	Н	Count and RCO disable
Х	Н	L	Н	Н	Count disable
Х	Н	L	L	Н	Count and RCO disable
\uparrow	Н	Х	Х	L	Load
\uparrow	Н	Н	Н	Н	Increment counter

H = High voltage level L = Low voltage level X = Irrelevant ↑ = Transition from low to high

FIGURE 2. Truth table.

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4. VERIFICATION

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

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. 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) $T_A = +125^{\circ}C$, 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.

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

TABLE II. Electrical test requirements.

* PDA applies to subgroup 1.

4.3 <u>Quality conformance inspection</u>. Quality conformance inspection shall be in accordance with method 5005 of MIL-STD-883 including groups A, B, C, and D inspections. The following additional criteria shall apply.

- 4.3.1 Group A inspection.
 - a. Tests shall be as specified in table II herein.
 - b. Subgroups 5, 6, and 8 in table I, method 5005 of MIL-STD-883 shall be omitted.
 - c. Subgroup 4 (C_{IN} measurement) shall be measured only for the initial test and after process or design changes which may affect input capacitance.
 - d. Subgroup 7 shall include verification of the truth table.

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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. 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) $T_A = +125^{\circ}C$, minimum.
 - (3) Test duration: 1,000 hours, except as permitted by method 1005 of MIL-STD-883.

5. PACKAGING

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

6. NOTES

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

6.2 <u>Replaceability</u>. Microcircuits covered by this drawing will replace the same generic device covered by a contractorprepared 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 using DD Form 1692, Engineering Change Proposal.

6.4 <u>Record of users</u>. Military and industrial users should inform DLA Land and Maritime when a system application requires configuration control and the applicable SMD. DLA Land and Maritime 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 DLA Land and Maritime -VA, telephone (614) 692-0544.

6.5 <u>Comments</u>. Comments on this drawing should be directed to DLA Land and Maritime -VA, Columbus, Ohio 43218-3990 or telephone (614) 692-0547.

6.6 <u>Approved sources of supply</u>. 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 DLA Land and Maritime -VA.

STANDARD MICROCIRCUIT DRAWING DLA LAND AND MARITIME COLUMBUS, OHIO 43218-3990	SIZE A		84094
		REVISION LEVEL C	SHEET 12

STANDARD MICROCIRCUIT DRAWING BULLETIN

DATE: 12-01-23

Approved sources of supply for SMD 84094 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 DLA Land and Maritime -VA. This information bulletin is superseded by the next dated revision of MIL-HDBK-103 and QML-38535. DLA Land and Maritime maintains an online database of all current sources of supply at http://www.landandmaritime.dla.mil/Programs/Smcr/.

Standard microcircuit drawing PIN <u>1</u> /	Vendor CAGE number	Vendor similar PIN <u>2</u> /
84094012A	3V146	54HC162/B2A
8409401EA	3V146	54HC162/BEA
8409401FA	3V146	54HC162/BFA

- 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.

Vendor CAGE <u>number</u> Vendor name and address

3V146

Rochester Electronics Inc. 16 Malcolm Hoyt Drive Newburyport, MA 01950

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