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5962-E1145

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

 SCOPE 1.1 Scope. This drawing describes device requirements for class B microcircuits in accordance with 1.2.1 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: 5962-89515 Lead finish per Case outline Device type Drawing number MIL-M-38510 (1.2.2)(1.2.1)1.2.1 Device type. The device type shall identify the circuit function as follows: Circuit function Clock frequency Generic number Device type Counter/timer unit 6.17 MHz Z84C3006 01 1.2.2 Case outline. The case outline shall be as designated in appendix C of MIL-M-38510, and as follows: Case outline Outline letter D-10 (28-lead, 1.490 $^{\circ}$ x .610 $^{\circ}$ x .232 $^{\circ}$), dual-in-line package X 1.3 Absolute maximum ratings. -0.3 V dc to +7 V dc -0.3 V dc to +7 V dc -65°C to +150°C Maximum power dissipation (Pp) per device - - - - Lead temperature (soldering, 10 seconds) - - - - -1.0 W +270°C Maximum junction temperature (Tj): +180°C at T_C = +125°C - - - - - -Thermal resistance, junction-to-case (θ_{JC}) - - - - See MIL-M-38510, appendix C 1.4 Recommended operating conditions. Supply voltage range - - - - - - - - - - -4.5 V dc minimum to 5.5 V dc maximum Minimum high level input voltage (V_{IH}): 2.2 V dc V_{CC} -0.6 V dc Maximum low level input voltage (VIL): 0.8 V dc 0.45 V dc Frequency of operation - - - - - - - - - - -DC to 6.17 MHz -55°C to +125°C 20 ns maximum 20 ns maximum Clock fall time - - - - -SIZE **STANDARDIZED** A 5962-89515

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SHEET

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MILITARY DRAWING

DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO 45444

2. APPLICABLE DOCUMENTS

2.1 Government specification and standard. Unless otherwise specified, the following specification and standard, 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

MI1.-STD-883

Test Methods and Procedures for Microelectronics.

(Copies of the specification and standard 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 1.
 - 3.2.2 Case outline. The case outline shall be in accordance with 1.2.2 herein.
- 3.3 <u>Electrical performance characteristics</u>. Unless otherwise specified, the electrical performance characteristics are as specified in table I and apply over the full case operating temperature range.
- 3.4 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 6.5 herein.
- 3.5 <u>Certificate of compliance</u>. A certificate of compliance shall be required from a manufacturer in order to listed as an approved source of supply in 6.5. The certificate of compliance submitted to DESC-ECS prior to listing as an approved source of supply shall state that the manufacturer's product meets the requirements of MIL-STD-883 (see 3.1 herein) and the requirements herein.
- 3.6 <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.
- 3.7 Notification of change. Notification of change to DESC-ECS shall be required in accordance with MIL-STD-883 (see 3.1 herein).

STANDARDIZED MILITARY DRAWING DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO 45444	SIZE A		5962-89515		
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Clock input high Voltage Clock input low Voltage Logic input high Voltage	VIH1 VIL1 VIH2 VIL2	Condition -55°C < TC < + VCC = 5.0 V ± Unless otherw specified 1	125°C 10% vise	Group A sub-groups 1,2,3	lence	types All	Min VCC -0.6 V	V _{CC} +0.3 V 3/	٧
Clock input low Voltage Logic input high Voltage Logic input low Voltage	V _{IL1}					A11	 	Υ _{CC} +0.3 ν <u>3</u> /	 V
ogic input high Noltage	V _{IH2}			1,2,3	<u>. </u>	† -	i -i		
voltage -ogic input low			Ī	1,2,3		† - -	-0.3 <u>3/</u>	0.45	V
ogic input low	V _{IL2}	1		1,2,3	 	T 	2.2	VCC	\ V
Voicage		 		1,2,3] 		-0.3 <u>3</u> /	0.8	V
Logic output low	v _{OL}	I _{OL} = 2.0 mA		1,2,3		Ť 		0.4	V
Logic output high Voltage	V _{OH1}	I _{OH} = -1.6 mA		1,2,3		<u> </u>	2.4	 	V
	V _{OH2}	I _{OH} = -250 μA		1,2,3		 	V _{CC} 8	1	V
Power supply current	I _{CC1}	V _{CC} = 5.0 V; C _L = 100 pF, V _{IH} = V _{CC} -0. V _{IL} = 0.2 V, CLK = 6 MHz	2 V,	 1,2,3 	 	 - 		10 	mA
Power supply current	I _{CC2}	V _{CC} = 5.0 V; CLK = 0 MHz		1,2,3	 		 	100 	μ Α
Output leakage current low, open l drain outputs	I _{LOL}	V _{OUT} = 0.4 V	-	1,2,3	 	 	-10 	 +10 	μ A
Output leakage current high, open drain outputs	I _{LOH}	V _{OUT} = 2.4 V		1,2,3		T ! !	-10	 +10 	 μ Α
Darlington drive current 3/	IOHD	V _{OH} = 1.5 V, R _{EXT} = 1.1 ks	n.	1,2,3		 	-1.5	-5.0	mA
See footnotes at end	of table	e							
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查询"5962-8951501XA"供应商 TABLE I. Electrical performance characteristics - Continued. Unit Limits Group AlRefer-Device Conditions Symbo1 Parameter | -55°C < T_C < +125°C V_{CC} = 5.0 V ±10% Unless otherwise lence ltypes sub-Min Max groups |no. 2/ specified 1/ A11 -10 +10 μA Input low current (input and bi-1,2,3 VIN = 0.4 V IIL directional) μΑ -10 +10 $V_{IN} = 2.4 V$ 1,2,3 Input high current |IIH (input and bidirectional) 20 рF 4 Clock capacitance CCLK T_C = +25°C |see 4.3.1c 5 pF [CI f = 1 MHz Input capacitance Unmeasured pins returned to ground 15 pF ic_o Output capacitance 6.17 MHz C_L = 100 pF ±10% 9,10,11 Maximum frequency **f**MAX 162 1 Clock cycle time $\frac{3}{4}$ $|C_{L}| = 100 \text{ pF } \pm 10\%$ 9,10,11 t_{cyc1} ns 21 2t_{cyc1} 9,10,11 CLK/TRG cycle time t_{cyc2} (counter mode) Clock time 3/ 5 20 ns 9,10,11 trC1 rise 20 4 ns 9,10,11 fall t_{fC1} CLK/TRG time 40 ns 22 9,10,11 rise trC2 40 ns 23 9,10,11 fall tfC2 See footnotes at end of table. SIZE STANDARDIZED Α 5962-89515 MILITARY DRAWING REVISION LEVEL SHEET DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO 45444

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Parameter	 Symbol	Conditions	 Group A		Device	Lim	its	Unit
	 	$ -55^{\circ}C < T_C < +125$ $ V_{CC} = 5.0 \text{ V} \pm 10\%$ Unless otherwise specified $ 1/ $	°C sub- groups 	ence no. <u>2</u> / 	types	Min	 Max 	
Clock width high	 tpwH1 <u>5</u> /	C _L = 100 pF ±10%	9,10,11	 2 	 A11 	65 <u>3</u> /		ns
low	tpwL 1	-i 	9,10,11	3	 	65 <u>3</u> /		ns
CLK/TRG width 3/ high	 tpWH2 7/	- 	9,10,11	 25 		120	 	ns
low	tpwL2	-i 	9,10,11	24		120		l ns
CSO, CS1 to clock setup 3/	t _{SLH1}	- - 	9,10,11	 7	T ! ! !	160		ns
	t _{SHL1}	- 	9,10,11	7	Ţ	160		l ns
CE to clock + setup	t _{SLH2}	-	9,10,11	8	 	100		ns
IORQ +to clock + setup	t _{SHL3}	- -	9,10,11	9 9 		70 70	 	ns
RD + to clock ↑ setup	 t _{SHL} 4	- - 	9,10,11	10	<u> </u>			ns
Data in to clock +	t _{SLH5}	- 	9,10,11	13	† - 	40		ns
	t _{SHL5}	- 	9,10,11	13		50		ns
MI + to clock + setup	t _{SHL6}	- 	9,10,11	14		70 		ns
See footnotes at end	of table	·.	J	ŧ.				
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查询"5962-8951501XA"供应商 TABLE I. Electrical performance characteristics - Continued. |Group A|Refer-Device Limits Unit |Symbol Conditions Parameter -55°C < T_C < +125°C V_{CC} = 5.0 V ±10% Unless otherwise | sub- |ence types Max groups Ino. 2/ Min specified 1/ A11 150 $|C_1| = 100 \text{ pF} \pm 10\%$ 9,10,11 27 ns CLK/TRG + to clock + |tslH7 (time for enabling) of prescaler on following clock + timer mode) 150 9,10,11 ns CLK/TRG + to clock + 1t_{SLH8} (setup time for immediate count counter mode) 9,10,11 6 0 All hold times 3/ ns tHHL1 9,10,11 6 0 ns tHLH1 130 Clock +to data out delay 9,10,11 11 ns tplH1 11 200 ns 9,10,11 tPHL1 Clock + to data 9,10,11 12 110 ns tPLZ1 out float delay 3/ 9,10,11 12 110 ns tPHZ1 9,10,11 15 130 MT + to IEO + delay | tpHL2 ns (interrupt immediately pre-ceding MI) 3/ ceding MI) TORQ +to data out 110 9,10,11 16 ns tpLH3 (INTA cycle) 9,10,11 16 160 ns tPHL3 100 IEI +to IEO +delay 9,10,11 17 ns tPHL4 IEI †to IEO †delay (after ED decode) 9,10,11 18 110 ns tPLH5 (tcys1 +126} Clock +to INT +de-9,10,11 19 ns tPHL6 delay (timer mode) See footnotes at end of table. **STANDARDIZED** SIZE Α 5962-89515 **MILITARY DRAWING DEFENSE ELECTRONICS SUPPLY CENTER** REVISION LEVEL SHEET

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DAYTON, OHIO 45444

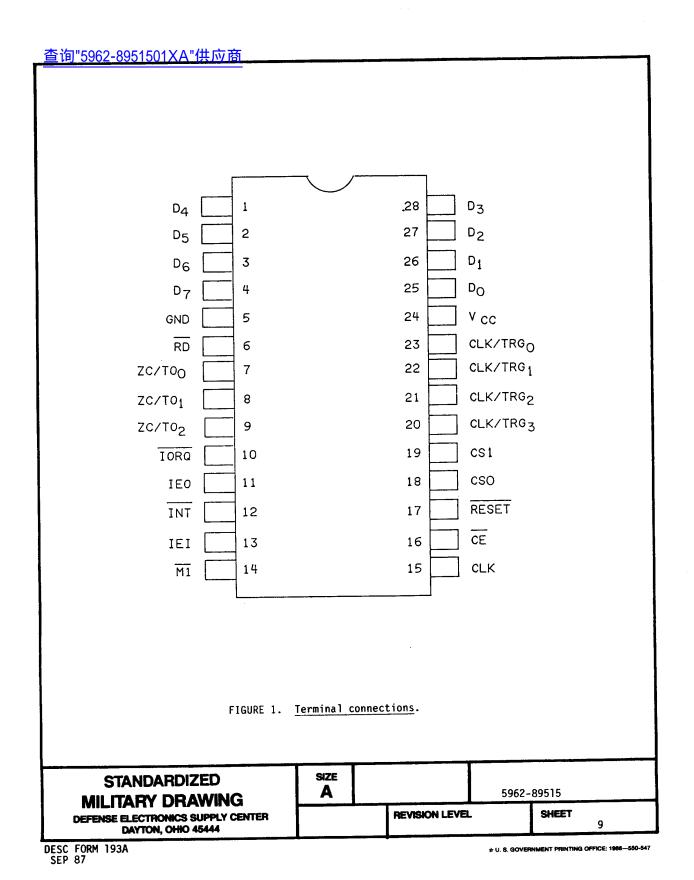
	TABLE I.	Electrical performanc	e characte	eristics	<u> - Contir</u>	nued.		
Parameter	Symbol	Conditions	Group A			Limits		Unit
	 	$-55^{\circ}C < T_C < +125^{\circ}C$ $V_{CC} = 5.0 \text{ V} \pm 10\%$ Unless otherwise specified $1/$		ence no. <u>2</u> / 	types 	 Min 	Max	
CLK/TRG + to INT + tSLH8 satisfied 3/	tpHL7	C _L = 100 pF ±10%	9,10,11	20	A11		(19) +(26) <u>9</u> /	l ns
(counter mode) tslms not satisfied 3/	tpHL8	- 	9,10,11	30	T		(1)+(19) +(26) <u>9</u> /	
Clock +to ZC/TO + delay	tpLH9	† ! !	9,10,11	28	1	1	140	l ns
Clock +to ZC/TO + delay	t _{PHL10}	†	9,10,11	29	† 1		140	l ns

- $\underline{1}$ / See figure 2 for ac test conditions.
- $\frac{2}{2}$ The reference number refers to the position where the parameter being tested appears on figure 2.
- 3/ Guaranteed, if not tested, to limits specified.
- 4/ tcycl = tpwH1 + tpwL1 + trC1 + tfC1.
- 5/ tpWH1 = t_{cyc1} t_{rC1} t_{fC1} tpWL1.
- $\underline{6}$ / tpwL1 = t_{cyc1} t_{rC1} t_{fC1} tpwH1.
- $\frac{7}{}$ tpwH2 = tcyc2 trC2 tfC2 tpwL2.
- 8/ tpwL2 = tcyc2 trC2 tfC2 tpwH2.
- $\frac{9}{}$ Parenthetical numbers reference the table number of a parameter. For example, (1) refers to $t_{\mbox{cycl}}.$

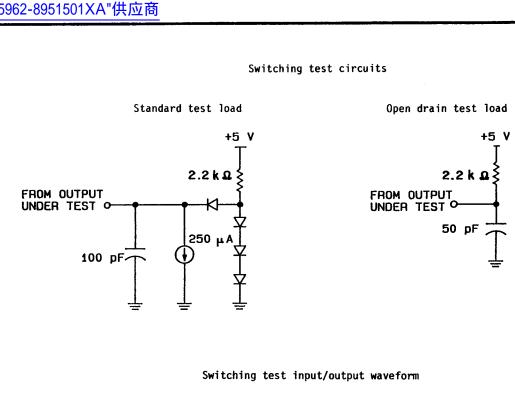
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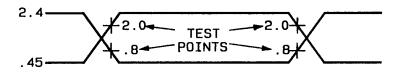
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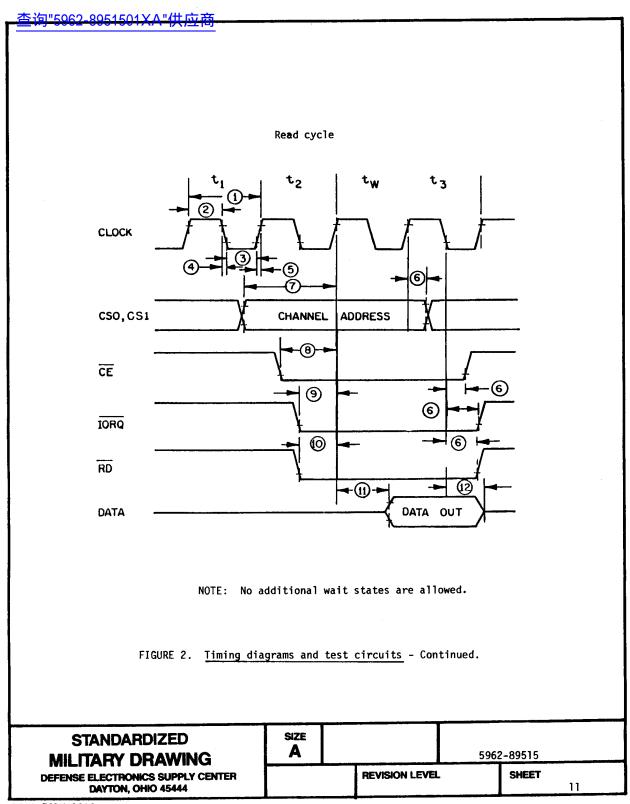
AC testing: Inputs are driven at 2.4 V for a logic "1" and 0.45 V for a logic "0". Timing measurements are made at 2.0 V for a logic "1" and 0.8 V for logic "0".

FIGURE 2. Timing diagram and test circuits.

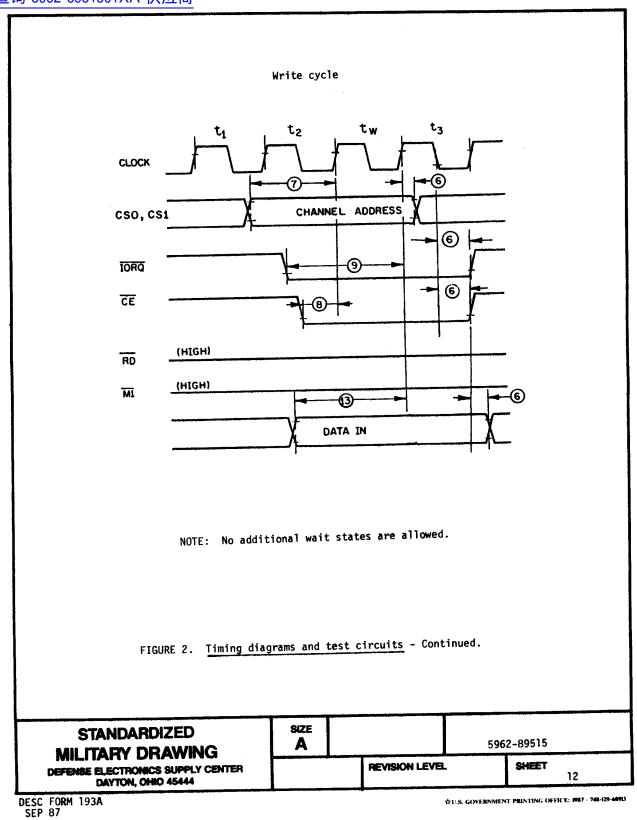
SIZE **STANDARDIZED** Α 5962-89515 **MILITARY DRAWING** DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO 45444 **REVISION LEVEL** SHEET 10

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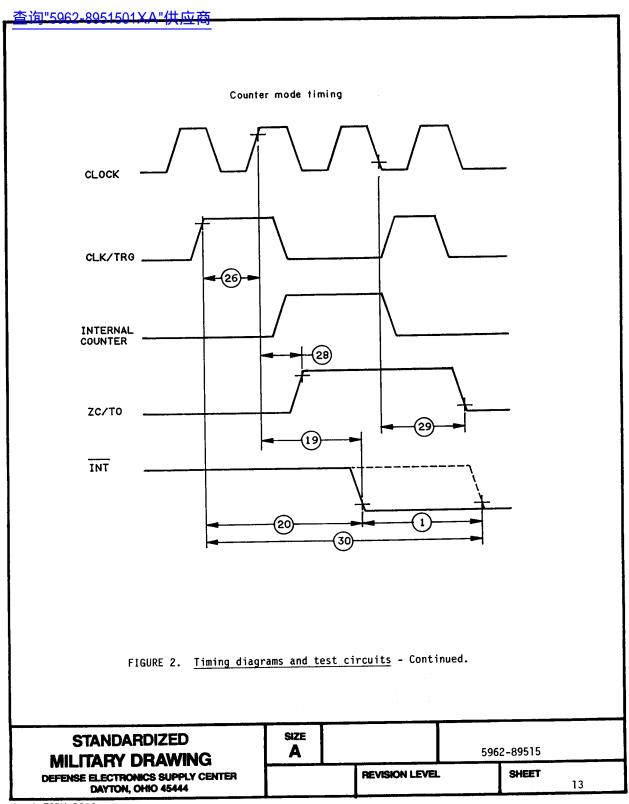
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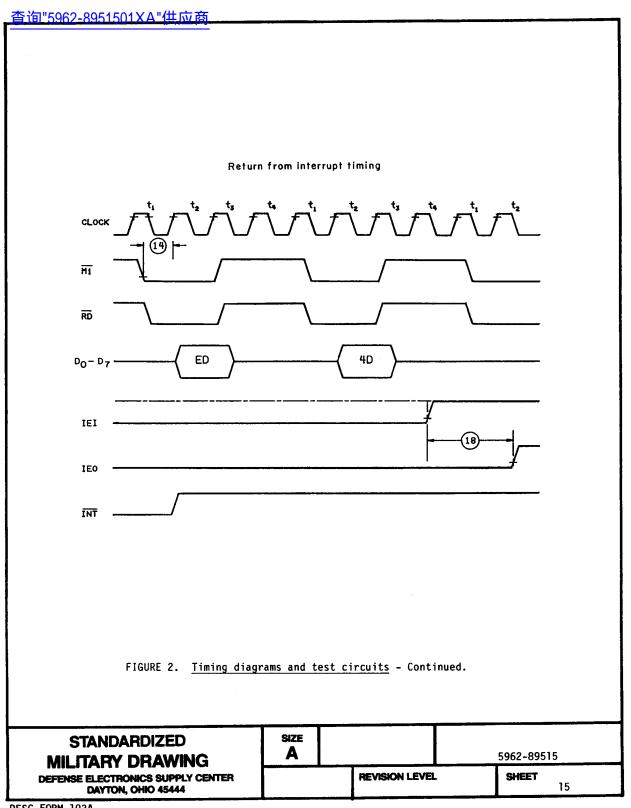


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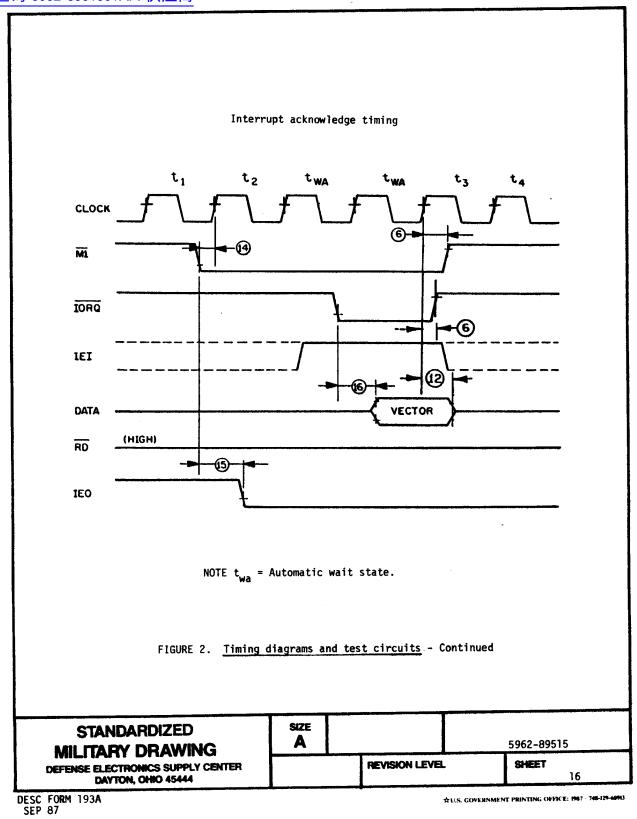


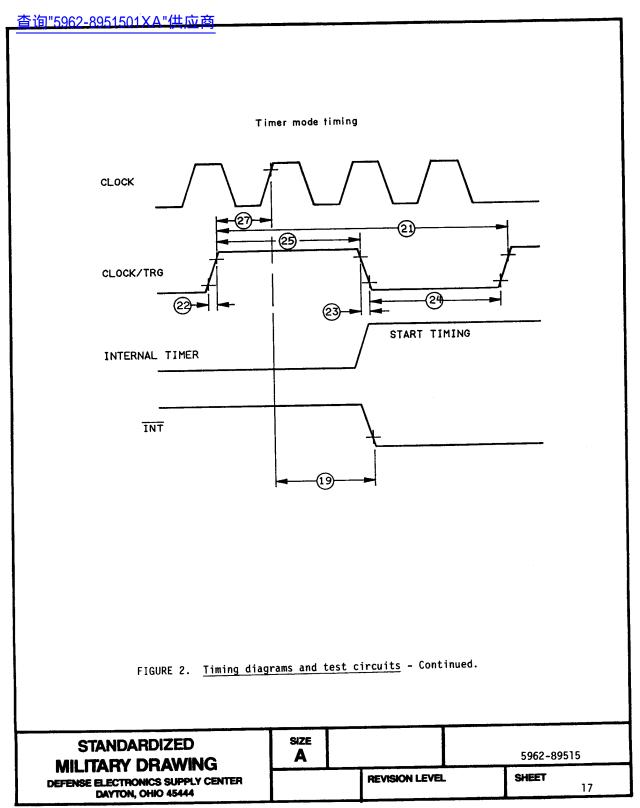
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- 3.8 Verification and review. DESC, DESC's agent, and the acquiring activity retain the option to review the manufacturer's facility and applicable required documentation. Offshore documentation shall be made available onshore at the option of the reviewer.
 - 4. QUALITY ASSURANCE PROVISIONS
- 4.1 Sampling and inspection. Sampling and inspection procedures shall be in accordance with section 4 of MIL-M-38510 to the extent specified in MIL-STD-883 (see 3.1 herein).
- 4.2 Screening. Screening shall be in accordance with method 5004 of MIL-STD-883, and shall be conducted on all devices prior to quality conformance inspection. The following additional criteria shall apply:
 - a. Burn-in test, method 1015 of MIL-STD-883.
 - (1) Test condition D using the circuit submitted with the certificate of compliance (see 3.5 herein).
 - (2) $T_A = +125^{\circ}C$, minimum.
 - b. Interim and final electrical test parameters shall be as specified in table II herein, except interim electrical parameter tests prior to burn-in are optional at the discretion of the manufacturer.
- 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_{CLK} , C_{I} and C_{0} measurements) shall be measured only for the initial test and after process or design changes which may affect capacitance. A minimum sample size of 5 with zero rejects shall be required.
 - d. Subgroups 7 and 8 functional testing shall include verification of instruction set. The instruction set forms a part of the vendors test tape and shall be maintained and available from the 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 D using the circuit submitted with the certificate of compliance (see 3.5 herein).
 - (2) $T_A = +125^{\circ}C$, minimum.
 - (3) Test duration: 1,000 hours, except as permitted by method 1005 of MIL-STD-883.

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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)	11*, 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)	1, 2, 3

* PDA applies to subgroup 1.

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 Comments. Comments on this drawing should be directed to DESC-ECS, Dayton, Ohio 45444, or telephone $513-\overline{2}96-5375$.

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	ct.ttt	docanint	ions	The symbols	definition	s, and functional
6.4 <u>Symbols, de</u> descriptions for t	finitions, and functional his device shall be as fo	Tlows:	ions.	me symbors,	dei illi cion	s, and removemen
		<u>s</u> ;	ystem	definitions		
Symbol .			Fu	nction		
D7 - D0	Data bus (bidirect and command words bit.	tional, 3- between t	state) he CPU	. This bus is and CTC. Do	used to t is the lea	ransfer all data st significant
CS1-CS0	Channel select (in address which sele read or write.	nputs, act ects one o	ive hi f the	gh). These pi four independe	ns form a nt CTC cha	two bit binary nnels for an I/O
	Channel 0 Channel 1 Channel 2 Channel 3	CS1 0 0 1 1	•	CSO 0 1 0 1		
CLK	System clock (inpu	ıt). CLK	is the	single phase	time base	input.
CE	Chip enable (inputo accept control data bus during a counter to the CPI	words, in n I/O writ	terrup e cycl	ot vectors, or le, or to trans	time const	tant data from the
MI	Machine cycle one signal is active, data bus.	(input, a the CTC i	ctive s ale	low). When \overline{M}	ī is active an interruļ	e and the IORQ ot vector onto the
RD	Read (input, acti enabled, control written to the CT read by the CPU w	words, int C. When a	errupi ictive	t vectors, or , the contents	time const	ant data can be
IEI	Interrupt enable CTC is able to in	in (input, terrupt th	acti e CPU	ve high). Whe ·	n this line	e is active, the
IEO	Interrupt enable IEI is high and t channel. In conj system-wide inter	he CPU is unction w	not s ith IE	ervicing an in I, this line c	terrupt fr	om any cic
INT	Interrupt request active whenever a interrupts has a	ny CTC cha zero coun	annel tin i	which has been ts down counte	programme r.	d to enable
TORQ	Input/output requestive, allowed and CTC.	est (inpu ws the tra	t, act ansfer	ive low). Use of data and c	d with RD ontrol wor	and CE, this input, ds between the CPU
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RESET

Reset (input, active low). This signal stops all channels from counting and resets the channel interrupt enable bits in all control registers. The INT output is forced to assume the inactive state, IEO reflects IEI, and the CTC's data bus output drivers go to their high impedance state.

CLK/TRG3-CLK/TRG0

External clock/timer trigger (input, user selectable active high or low). In the counter mode, these inputs are the clocks of the four independent counters. In the timer mode, an active edge on these pins initiates the timing function. The user may select the active edge to be either the rising or falling edge.

ZC/T02-ZC/T00

Zero count/timeout (output, active high). In either counter or timer mode, the down counter decrements to zero, an active high going pulse

appears on these pins.

6.5 Approved source of supply. An approved source of supply is listed herein. Additional sources will be added as they become available. The vendor listed herein has agreed to this drawing and a certificate of compliance (see 3.5) has been submitted to DESC-ECS.

 Military drawing part number	Vendor CAGE number	Vendor similar part number <u>1</u> /	
5962-8951501XX	56708	 Z84C3006CMB 	

1/ Caution. Do not use this number for item acquisition. Items acquired to this number may not satisfy the performance requirements of this drawing.

Vendor CAGE number Vendor name and address

56708

Zilog, Incorporated 210 Hacienda Avenue Campbell, CA 95008

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