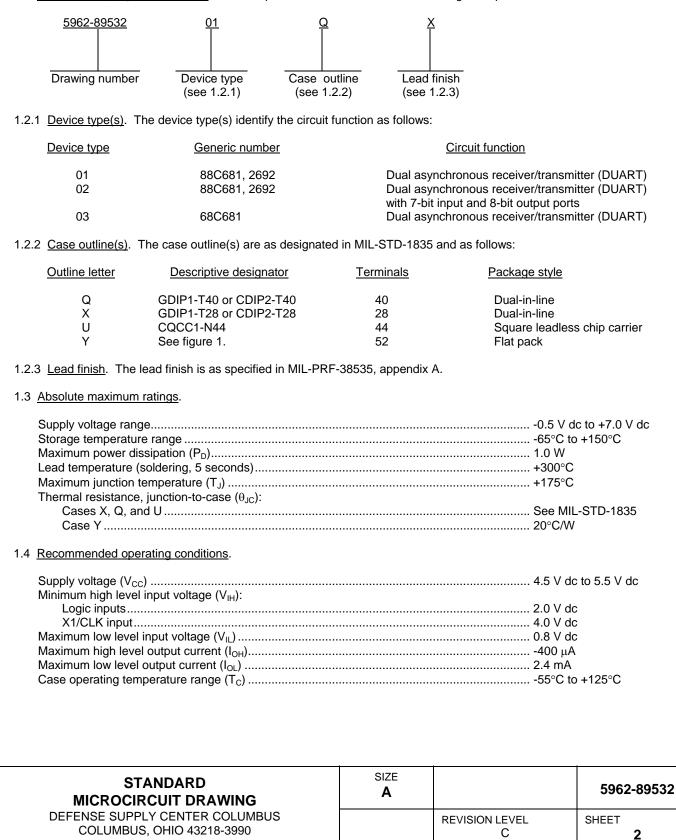
								г	REVISI	ONS										
LTR					[	DESCR	RIPTIO	N					DA	TE (YI	R-MO-I	DA)		APPF	ROVED	
A	Add	case oi	utline Y	'. add v	, add vendor CAGE code 18324.									90-0	)3-08			W. He	eckman	
В	Corre	ected s	upply v	voltage	bltage in 1.3 absolute max ratings. Technotote $\underline{3}$ / to table I. Editorial changes thr									6 Monica Poelking						
С	Update boilerplate to current MIL-PRF-38535 requirements												06-0	)2-08		1	Thomas	s M. He	SS	
REV																				
SHEET	6		0			6		6												
SHEET REV	C 15	C 16	C 17	C 18	C 19	C 20	C 21	C 22	C 23	C 24	C 25	C 26	C 27	C 28	C 29	C 30	C 31	C 32	C 33	C 34
SHEET REV SHEET	C 15	C 16	C 17	18	19	C 20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
SHEET REV	-				19 /		-					-	_							
SHEET REV SHEET REV STATUS	-			18 REV SHE	19 / EET PAREE	20 20 0 BY	21 C	22 C 2	23 C	24 C	25 C 5	26 C 6	27 C 7	28 C 8	29 C 9	30 C 10	31 C 11	32 C 12	33 C 13	34 C
SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A	15 NDAF DCIR(	16 RD CUIT		18 REV SHE PRE	19 / EET PAREE	20 D BY Todd D BY	21 C 1	22 C 2	23 C	24 C	25 C 5	26 C 6 EFEN	27 C 7 SE SI	28 C 8 UPPL	29 C 9 Y CE	30 C 10	31 C 11 C 11 S COL 218-35	32 C 12	33 C 13	34 C
SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A STAI MICRO DRA THIS DRAWIN FOR U DEPAI	15 NDAF DCIRC AWIN NG IS A SE BY RTMEN	16 RD CUIT G VAILAI ALL ITS	17 BLE	18 REV SHE PREI	19 / PAREL CKED	20 DBY Todd D BY Ray N DBY	21 C 1	22 C 2	23 C	24 C 4	25 C 5	26 C 6 EFEN	27 C 7 SE SI DLUM http	28 C 8 UPPL BUS	29 C 9 Y CE , OHIG	30 C 10 NTER D 432 cc.dl	31 C 11 C C 11 C C C C C C 218-33 a.mil	32 C 12	33 C 13	34 C
SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A STAI MICRO DRA THIS DRAWIN FOR U	15 NDAF DCIRC AWIN NG IS A SE BY RTMEN NCIES (	16 RD CUIT G VAILAI ALL ITS DF THE	BLE	18 REV SHE PREI	19 / EET PAREE CKED ROVEE	20 D BY Todd D BY Ray N D BY Michae	21 C 1 O. Creel	22 C 2	23 C	24 C 4 MIC	25 C 5 DI	26 C 6 EFEN CC	27 C 7 SE SI DLUM http	28 C 8 UPPL BUS 5://ww	29 C 9 Y CE OHIO (w.ds	30 C 10 NTER D 432 cc.dl	31 C 11 218-39 a.mil	32 C 12 JAL	33 C 13	34 C 14
SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A STAI MICRC DRA THIS DRAWIN FOR U DEPARTMEN	15 NDAF DCIRC AWIN NG IS A SE BY RTMEN NCIES (	16 RD CUIT G VAILAI ALL ITS DF THE DEFEN	BLE	18 REV SHE PREI CHE	19 / EET PAREE CKED ROVEE	20 D BY Todd D BY Ray M D BY Michae APPRC 04 Apr	21 C 1 D. Creel Monnin I A. Fry DVAL D ril 1989	22 C 2	23 C	24 C 4 MIC AS <sup>V</sup> MO	25 C 5 DI	26 C 6 EFEN CC HRON ITHIC	27 C 7 SE SI DLUM http	28 C 8 UPPL BUS 5://ww DIGIT 5 RE0 CON	29 C 9 Y CE OHIO (w.ds	30 C 10 NTER O 432 cc.dl	31 C 11 218-39 a.mil S, DU RAN	32 C 12 JAL	33 C 13 US	34 C 14

1. SCOPE	1.	SCOPE
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1.1 <u>Scope</u>. 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:



### 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 Me	ethod	Sta	ndard	Mic	cro	circuits	
NUL OTD 4005			~					~	

MIL-STD-1835 - Interface Standard Electronic Component Case Outlines.

## DEPARTMENT OF DEFENSE HANDBOOKS

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 <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 and figure 1.

3.2.2 <u>Terminal connections</u>. The terminal connections shall be as specified on figure 2.

3.2.3 <u>Functional block diagram</u>. The functional block diagram shall be as specified on figure 3.

3.2.4 <u>Timing waveforms and test circuits</u>. The timing waveforms and test circuits shall be as specified on figure 3.

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.

STANDARD MICROCIRCUIT DRAWING	SIZE <b>A</b>		5962-89532
DEFENSE SUPPLY CENTER COLUMBUS		REVISION LEVEL	SHEET
COLUMBUS, OHIO 43218-3990		C	3

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

3.9 <u>Verification and review</u>. 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.

STANDARD MICROCIRCUIT DRAWING	SIZE A		5962-89532
DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43218-3990		REVISION LEVEL C	SHEET 4

	T	ABLE I. Electrical performance	characteristics	<u>8</u> .			
Test	Symbol	$\begin{array}{c} Conditions  \underline{1}/ \ \underline{2}/\\ -55^{\circ}C \leq T_C \leq +125^{\circ}C\\ 4.5 \ V \ dc \leq V_{CC} \leq 5.5 \ V \ dc\\ unless \ otherwise \ specified \end{array}$	Group A subgroups	Device type	Lin	nits	Unit
					Min	Max	
Input low voltage	V <sub>IL</sub>		1, 2, 3	All		0.8	V
Input high voltage (except X1/CLK)	V <sub>IH</sub>				2.0		V
Input high voltage (X1/CLK)	V <sub>IH</sub>				4.0		V
Output low voltage	V <sub>OL</sub>	$I_{OL} = 2.4 \text{ mA}, V_{CC} = 4.5 \text{ V}$				0.4	V
Output high voltage (except open collector outputs)	V <sub>OH</sub>	$I_{OH}$ = -400 µA, V <sub>CC</sub> = 4.5 V	_		2.4		V
Input leakage current	IIL	$V_I = 0 V \text{ to } V_{CC}$			-25	10	μA
Data bus three-state leakage current	I <sub>OZL</sub> , I <sub>OZH</sub>	$V_{O} = 0.4 \text{ V to } V_{CC}$			-10	10	μA
X1/CLK low input current	I <sub>IL</sub> (X1)	$V_1 = 0 V$ , X2 grounded			-6.0	0.0	mA
X1/CLK high input current	I <sub>IH</sub> (X1)	$V_{I} = V_{CC}$ , X2 grounded			-1.0	1.0	mA
X2 low input current <u>3</u> /	I <sub>IL</sub> (X2)	V <sub>I</sub> = 0 V, X1/CLK floated			-100	0.0	μΑ
X2 high input current <u>3</u> /	I <sub>IH</sub> (X2)	$V_1 = V_{CC}$ , X1/CLK floated			0.0	100	μA
Open collector output leakage current	I <sub>OH</sub>	$V_{\rm O}$ = 0.4 V to $V_{\rm CC}$			-10	10	μA
Power supply current	I <sub>CC</sub>	V <sub>CC</sub> = 5.5 V				15	mA
Input capacitance	C <sub>IN</sub>	V <sub>IN</sub> = 0 V, F <sub>C</sub> = 1 MHz See 4.3.1c	4			20	pF
Functional tests		See 4.3.1d	7, 8				

See footnotes at end of table.

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

SIZE A		5962-89532
	REVISION LEVEL C	SHEET 5

TABLE I. Electrical performance characteristics - Continued.									
Test	Symbol	$\begin{array}{c c} Conditions & \underline{1}/\underline{2}/\\ -55^\circ C \leq T_C \leq +125^\circ C\\ 4.5 \ V \ dc \leq V_{CC} \leq 5.5 \ V \ dc\\ unless \ otherwise \ specified \end{array}$	Group A subgroups	Device type	Lir	nits	Unit		
					Min	Max			
Reset pulse width	t <sub>RES</sub>	See figure 4. <u>4</u> /	9, 10, 11	01, 02	1.0		ns		
A0–A3 setup time to RDN, WRN low	t <sub>AS</sub>				10		ns		
A0–A3 hold time from RDN, WRN low	t <sub>AH</sub>				100		ns		
CEN setup time to RDN, WND low	t <sub>CS</sub>				0		ns		
CEN hold time from RDN, WRN high	t <sub>CH</sub>				0		ns		
WRN, RDN pulse width	t <sub>RW</sub>				225		ns		
Data valid after RDN low	t <sub>DD</sub>					175	ns		
Data bus floating after RDN high	t <sub>DF</sub>					110	ns		
Data setup time before WRN high	t <sub>DS</sub>				100		ns		
Data hold time after WRN high	t <sub>DH</sub>				20		ns		
High time between READS and/or WRITES <u>5</u> / <u>6</u> /	t <sub>RWD</sub>				200		ns		
Port input setup time before RDN low	t <sub>PS</sub>				0		ns		
Port input hold time after RDN high	t <sub>PH</sub>				0		ns		
Port output valid after WRN high	t <sub>PD</sub>					400	ns		

See footnotes at end of table.

STANDARD MICROCIRCUIT DRAWING	SIZE A		5962-89532
DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43218-3990		REVISION LEVEL C	SHEET 6

	TABLE I	. Electrical performar	ice characte	eristics -	Continued.			
Test	Symbol	$\begin{array}{c} Conditions  \underline{1}\\ -55^{\circ}C \leq T_{C} \leq +1\\ 4.5 \ V \ dc \leq V_{CC} \leq 5\\ unless \ otherwise \ sp \end{array}$	25°C 5.5 V dc	Group A subgroup			nits	Unit
						Min	Max	
INTRN (or OP3-OP7 when us	ed as	See figure 4. <u>4</u> /						
interrupts) negated from:								
Read RHR (RxRDY/FFULL	t <sub>IR1</sub>			9, 10, 11	1 01, 02		325	ns
interrupt)								
Write THR (TxRDY	t <sub>IR2</sub>						325	ns
interrupt	1112							
Reset command (delta	t <sub>IR3</sub>						325	ns
break interrupt)	4153						020	110
Stop C/T command	t <sub>IR4</sub>						325	ns
(counter interrupt)	ฯห4						525	113
							225	
Read IPCR (input port	t <sub>IR5</sub>						325	ns
change interrupt)							005	
Write IMR (clear of	t <sub>IR6</sub>						325	ns
interrupt mask bit)								
X1/CLK high or low time	t <sub>CLK</sub>					100		ns
X1/CLK frequency	f <sub>CLK</sub>					2.0	4.0	MHz
CTCLK (IP2) high or low time	t <sub>CTC</sub>					100		ns
CTCLK (IP2) frequency 7/	f <sub>CTC</sub>					0	4.0	MHz
RxC high or low time	t <sub>RX</sub>	•				220		ns
RxC frequency (16X) <u>7</u> /	f <sub>RX</sub>					0	2.0	MHz
RxC frequency (1X) 7/	f <sub>RX</sub>					0	1.0	MHz
TxC high or low time	t <sub>TX</sub>					220		ns
TxC frequency (16X) <u>7</u> /	f <sub>TX</sub>					0	2.0	MHz
TxC frequency (1X) 7/	f <sub>TX</sub>					0	1.0	MHz
TxD output delay from TxC low	t <sub>TXD</sub>						350	ns
See footnotes at end of table.								
STAN	IDARD		SIZE				506	2-89532
MICROCIRC			A				550	- 03032
DEFENSE SUPPLY COLUMBUS, C				RI	EVISION LEVE C	ïL	SHEET	7
							1	

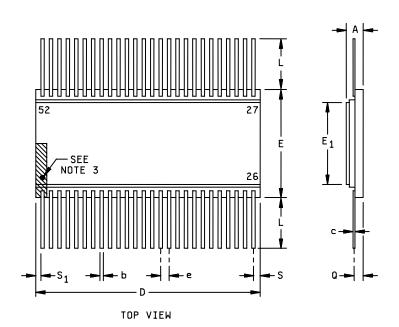
	TABLE I	. Electrical performan	ice characte	<u>eristics</u> - (	Continued.			
Test	Symbol	$\begin{array}{c} Conditions  \underline{1} \\ -55^{\circ}C \leq T_C \leq +1 \\ 4.5 \ V \ dc \leq V_{CC} \leq 5 \\ unless \ otherwise \ space{-1.5} \end{array}$	125°C Group A 5.5 V dc subgroups			Lin	nits	Unit
						Min	Max	
Output delay from TxC low to TxD data output	t <sub>TCS</sub>	See figure 4. <u>4</u> /		9, 10, 11	01, 02	0	150	ns
RxD data setup time to RxC high	t <sub>RXS</sub>					240		ns
RxD data hold time from RxC high	t <sub>RXH</sub>					200		ns
RESETN pulse width	t <sub>RES</sub>				03	1.0		μS
A1-A4 setup to CSN low	t <sub>AS</sub>					10		ns
A1-A4 hold time from CSN high	t <sub>AH</sub>					0		ns
R/WN setup time to CSN high	t <sub>RWS</sub>					0		ns
R/WN holdup time to CSN high	t <sub>RWH</sub>					0		ns
CSN high pulse width <u>8</u> /	t <sub>CSW</sub>					90		ns
CSN or IACKN high from DTACKN low <u>9</u> /	t <sub>CSD</sub>					20		ns
Data valid from CSN or IACKN low	t <sub>DD</sub>						175	ns
Data bus floating from CSN or IACKN high	t <sub>DF</sub>						100	ns
Data setup time to CLK high	t <sub>DS</sub>					100		ns
Data hold time from CSN high	t <sub>DH</sub>					0		ns
DTACKN low from read data	t <sub>DAL</sub>					0		ns
DTACKN low (read cycle) from CLK high	t <sub>DCR</sub>						125	ns
DTACKN low (write cycle) from CLK high	t <sub>DCW</sub>						125	ns
DTACKN high from CSN or IACKN high	t <sub>DAH</sub>						100	ns
DTACKN high impedance from CSN or IACKN high	t <sub>DAT</sub>						125	ns
See footnotes at end of table.							<u> </u>	
STAN MICROCIRC	IDARD UIT DRAV	WING	SIZE A				5962	2-89532
DEFENSE SUPPLY COLUMBUS, C	CENTER C	OLUMBUS		RE	EVISION LEVE C	L	SHEET	8

	TABLE I	. Electrical performan	ice charact	<u>eristics</u> - C	Continued.			
Test	Symbol	$\begin{array}{ll} Conditions & \underline{1}/\underline{2}/\\ -55^\circ C \leq T_C \leq +125^\circ C\\ 4.5 \ V \ dc \leq V_{CC} \leq 5.5 \ V \ dc\\ unless \ otherwise \ specified \end{array}$		Group A subgroups		Lir	nits	Unit
						Min	Max	
CSN or IACKN setup time to clock high <u>10</u> /	t <sub>csc</sub>	See figure 4. <u>4</u> /		9, 10, 11	03	90		ns
Port input setup to CSN low	t <sub>PS</sub>					0		ns
Port input hold time CSN high	t <sub>PH</sub>					0		ns
Port output valid from CSN high	t <sub>PD</sub>						400	ns
INTRN, or OP3-OP7 when us interrupts, negated from:	ed as							
Read RHR (RxRDY/FFULL interrupts)	t <sub>IR1</sub>			9, 10, 11	03		325	ns
Write THR (TxRDY interrupt)	t <sub>IR2</sub>						325	ns
Reset command (delta break interrupt)	t <sub>IR3</sub>						325	ns
Stop C/T command (counter interrupts)	t <sub>IR4</sub>						325	ns
Read IPCR (input port change interrupt)	t <sub>IR5</sub>						325	ns
Write IMR (clear of interrupt mask bit)	t <sub>IR6</sub>						325	ns
X1/CLK high or low time	t <sub>CLK</sub>					100		ns
X1/CLK frequency	f <sub>CLK</sub>					2.0	4.0	MHz
CTCLK high or low time	t <sub>CTC</sub>					100		ns
CTCLK frequency	f <sub>стс</sub>					0	4.0	MHz
RxC high or low time	t <sub>RX</sub>					220		ns
RxC frequency (16X)	f <sub>RX</sub>					0	2.0	MHz
RxC frequency (1X)	f <sub>RX</sub>					0	1.0	MHz
See footnotes at end of table.		·						·
STAN MICROCIRC	NDARD UIT DRAV	WING	SIZE A	Ē			596	2-89532
DEFENSE SUPPLY COLUMBUS, C	CENTER C	OLUMBUS		RE	VISION LEVE C	EL	SHEET	9

	TABLE I	. Electrical performance charact	teristics - Co	ntinued.			
Test	Symbol	$\begin{array}{c c} Conditions & \underline{1}/ & \underline{2}/\\ -55^{\circ}C \leq T_{C} \leq +125^{\circ}C\\ 4.5 \ V \ dc \leq V_{CC} \leq 5.5 \ V \ dc\\ unless \ otherwise \ specified \end{array}$	Group A subgroups	Device type	Lin	Limits	
					Min	Max	
TxC high or low time	t <sub>TX</sub>	See figure 4. <u>4</u> /	9, 10, 11	03	220		ns
TxC frequency (16X)	f <sub>TX</sub>				0	2.0	MHz
TxC frequency (1X)	f <sub>TX</sub>				0	1.0	MHz
TxD output delay from TxC low	t <sub>TXD</sub>					350	ns
Output delay from TxC low to TxD data output	t <sub>TCS</sub>				0	150	ns
RxD data setup time to RxC high	t <sub>RXS</sub>				240		ns
RxD data hold time from RxC high	t <sub>RXH</sub>				200		ns

- 1/ All voltage measurements are referenced to ground (GND). For testing, all inputs except X1/CLK swing between 0.4 V and 2.4 V with a transition time of < 20 ns. For X1/CLK this swing is between 0.4 V and 4.4 V. All time measurements referenced at input voltages of 0.8 V and 2.0 V as appropriate.</p>
- 2/ Test condition for outputs: C<sub>L</sub> = 150 pF tied to ground, except interrupt outputs.
- Test condition for interrupt outputs:  $C_L = 50 \text{ pF}$  tied to ground,  $R_L = 2.7 \text{ k}\Omega$  to  $V_{CC}$ .
- <u>3</u>/ For CMOS technology:  $I_{IL(X2)}$  X1/CLK = V<sub>CC</sub>,  $I_{IH(X2)}$  X1/CLK = 0.0 V.
- 4/ Timing is illustrated and referenced to the WRN and RDN inputs. The device may also be operated with CEN as the "strobing" input. In this case, all timing specifications apply referenced to the falling and rising edges of CEN. CEN and RDN (also CEN and WRN) are AND'ed internally. As a consequence, the signal asserted last initiates the cycle and the signal negated first terminates the cycle.
- 5/ If CEN is used as the "strobing" input, the parameter defines the minimum high times between one CEN and the next. The RDN signal must be negated for t<sub>RWD</sub> to guarantee that any status register changes are valid.
- 6/ Consecutive write operations to the same command register require at least three edges of the X1 clock between writes.
- <u>7/</u> Minimum frequencies may not be tested, but are guaranteed by design.
- 8/ This specification will impose maximum 68000 CPU CLK to 6 MHz. Higher CPU CLK can be used if repeating bus reads are not performed. Consecutive write operations to the same command register require at least three edges of the X1 clock between writes.
- <u>9</u>/ This specification imposed a lower bound on CSN and IACKN low, guaranteeing that it will be low for at least 1 CLK period. This requirement is made on CSN only to insure assertion of DTACKN and not to guarantee operation of the part.
- 10/ This specification is made only to insure that DTACKN is asserted with respect to the rising edge of the X1/CLK pin as shown in the timing diagram, not to guarantee operation of the part. If the setup time is violated, DTACKN may be asserted as shown, or may be asserted one clock cycle later.

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DEFENSE SUPPLY CENTER COLUMBUS		REVISION LEVEL	SHEET
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Case Y

	Inch	Inches Millimeters			
Symbol	Min	Max	Min	Max	Notes
А	.045	.100	1.14	2.54	
b	.015	.026	0.38	0.66	7
с	.008	.015	0.20	0.38	7
D		1.330		33.78	4
E	.620	.660	15.75	16.76	
E <sub>1</sub>	.488	.498	12.40	12.65	
е	.050	BSC	1.27	BSC	5
L	.250	.370	6.35	9.40	
Q	.054	.066	1.37	1.68	6
S		.045		1.14	
S <sub>1</sub>	.005		0.13		

### NOTES:

- 1. Dimensions are in inches.
- 2. Metric equivalents are for general information only.
- 3. A lead tap (enlargement) or index dot is located within the shaded area shown at pin 1. Other pin numbers proceed sequentially from pin 1 counterclockwise (as viewed from the top of the device).
- 4. This dimension allows for off-center lid, meniscus, and glass overrun.
- 5. The reference pin spacing is .050 (1.27 mm) between centerlines. Each pin centerline is located within ±.005 (0.13 mm) of its longitudinal position relative to the first and last pin numbers.
- 6. This dimension is measured at the point of exit of the lead body.
- 7. Lead dimensions include .003 inch allowance for hot solder dip lead finish.

FIGURE 1. Case outlines.

STANDARD MICROCIRCUIT DRAWING	SIZE A		5962-89532
DEFENSE SUPPLY CENTER COLUMBUS		REVISION LEVEL	SHEET
COLUMBUS, OHIO 43218-3990		C	11

Device	type:	01		
Case o		Х		
Terminal number	Terminal symbol	Terminal number	Terminal symbol	
1	A0	15	INTRN	
2	A1	16	D6	
3	A2	17	D4	
4	A3	18	D2	
5	WRN	19	D0	
6	RDN	20	OP0	
7	RxDB	21	TxDA	
8	TxDB	22	RxDA	
9	OP1	23	X1/CLK	
10	D1	24	X2	
11	D3	25	RESET	
12	D5	26	CEN	
13	D7	27	IP2	
14	GND	28	V <sub>CC</sub>	

_ <u> </u>			-		
Device	e type:	02			
Case o	utline:	Q			
Terminal number	Terminal symbol	Terminal number	Terminal symbol		
1	A0	21	INTRN		
2	IP3	22	D6		
3	A1	23	D4		
4	IP1	24	D2		
5	A2	25	D0		
6	A3	26	OP6		
7	IP0	27	OP4		
8	WRN	28	OP2		
9	RDN	29	OP0		
10	RxDB	30	TxDA		
11	TxDB	31	RxDA		
12	OP1	32	X1/CLK		
13	OP3	33	X2		
14	OP5	34	RESET		
15	OP7	35	CEN		
16	D1	36	IP2		
17	D3	37	IP6		
18	D5	38	IP5		
19	D7	39	IP4		
20	GND	40	V <sub>CC</sub>		

FIGURE 2. Terminal connections.

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Device	e type:		02					
Case o	outline:		U					
Terminal number	Terminal symbol	Terminal number	Terminal symbol	Terminal number	Terminal symbol	Terminal number	Terminal symbol	
1	NC	12	NC	23	NC	34	NC	
2	A0	13	TxDB	24	INTRN	35	RxDA	
3	IP3	14	OP1	25	D6	36	X1/CLK	
4	A1	15	OP3	26	D4	37	X2	
5	IP1	16	OP5	27	D2	38	RESET	
6	A2	17	OP7	28	D0	39	CEN	
7	A3	18	D1	29	OP6	40	IP2	
8	IP0	19	D3	30	OP4	41	IP6	
9	WRN	20	D5	31	OP2	42	IP5	
10	RDN	21	D7	32	OP0	43	IP4	
11	RxDB	22	GND	33	TxDA	44	V <sub>cc</sub>	

NC = No connection.

Device	e type:	02						
Case c	Case outline:			Y				
Terminal number	Terminal symbol	Terminal number	Terminal symbol	Terminal number	Terminal symbol	Terminal number	Terminal symbol	
1	A0	14	TxDB	27	INTRN	40	RxDA	
2	IP3	15	OP1	28	D6	41	X1/CLK	
3	A1	16	OP3	29	D4	42	X2	
4	IP1	17	OP5	30	D2	43	RESET	
5	A2	18	OP7	31	D0	44	CEN	
6	A3	19	NC	32	NC	45	NC	
7	NC	20	NC	33	NC	46	NC	
8	NC	21	NC	34	NC	47	NC	
9	NC	22	D1	35	OP6	48	IP2	
10	IP0	23	D3	36	OP4	49	IP6	
11	WRN	24	D5	37	OP2	50	IP5	
12	RDN	25	D7	38	OP0	51	IP4	
13	RxDB	26	GND	39	TxDA	52	V <sub>cc</sub>	

NC = No connection.

FIGURE 2. <u>Terminal connections</u> - Continued.

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Device	e type:	0	3		
Case o		-	2		
Terminal number	Terminal symbol	Terminal number	Terminal symbol		
1	A1	21	INTRN		
2	IP3	22	D6		
3	A2	23	D4		
4	IP1	24	D2		
5	A3	25	D0		
6	A4	26	OP6		
7	IP0	27	OP4		
8	R/WN	28	OP2		
9	DTACKN	29	OP0		
10	RxDB	30	TxDA		
11	TxDB	31	RxDA		
12	OP1	32	X1/CLK		
13	OP3	33	X2		
14	OP5	34	RESETN		
15	OP7	35	CSN		
16	D1	36	IP2		
17	D3	37	IACKN		
18	D5	38	IP5		
19	D7	39	IP4		
20	GND	40	V <sub>cc</sub>		

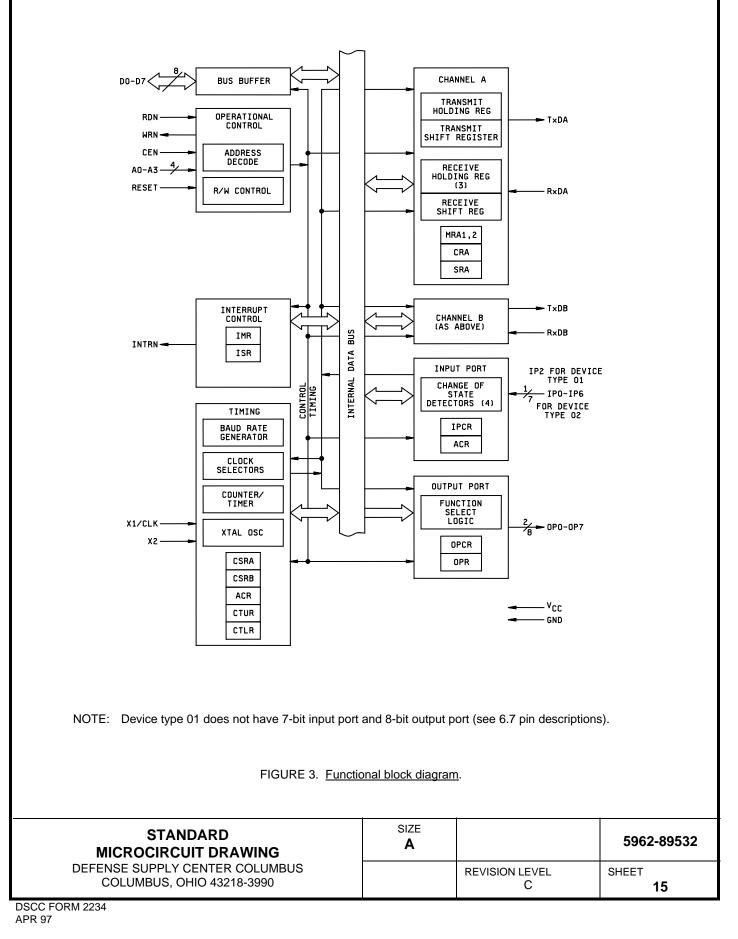
Device	e type:		03							
Case of	outline:	U								
Terminal number	Terminal symbol	Terminal number	Terminal symbol	Terminal number	Terminal symbol	Terminal number	Terminal symbol			
1	NC	12	NC	23	NC	34	NC			
2	A1	13	TxDB	24	INTRN	35	RxDA			
3	IP3	14	OP1	25	D6	36	X1/CLK			
4	A2	15	OP3	26	D4	37	X2			
5	IP1	16	OP5	27	D2	38	RESETN			
6	A3	17	OP7	28	D0	39	CSN			
7	A4	18	D1	29	OP6	40	IP2			
8	IP0	19	D3	30	OP4	41	IACKN			
9	R/WN	20	D5	31	OP2	42	IP5			
10	DTACKN	21	D7	32	OP0	43	IP4			
11	RxDB	22	GND	33	TxDA	44	V <sub>CC</sub>			

NC = No connection.

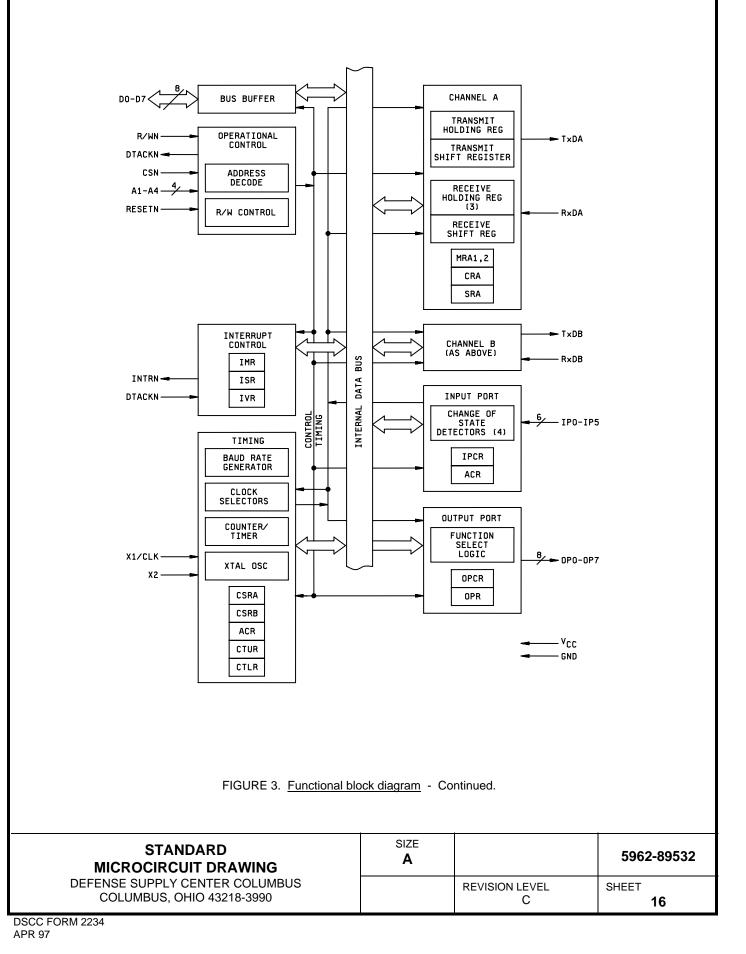
FIGURE 2. <u>Terminal connections</u> - Continued.

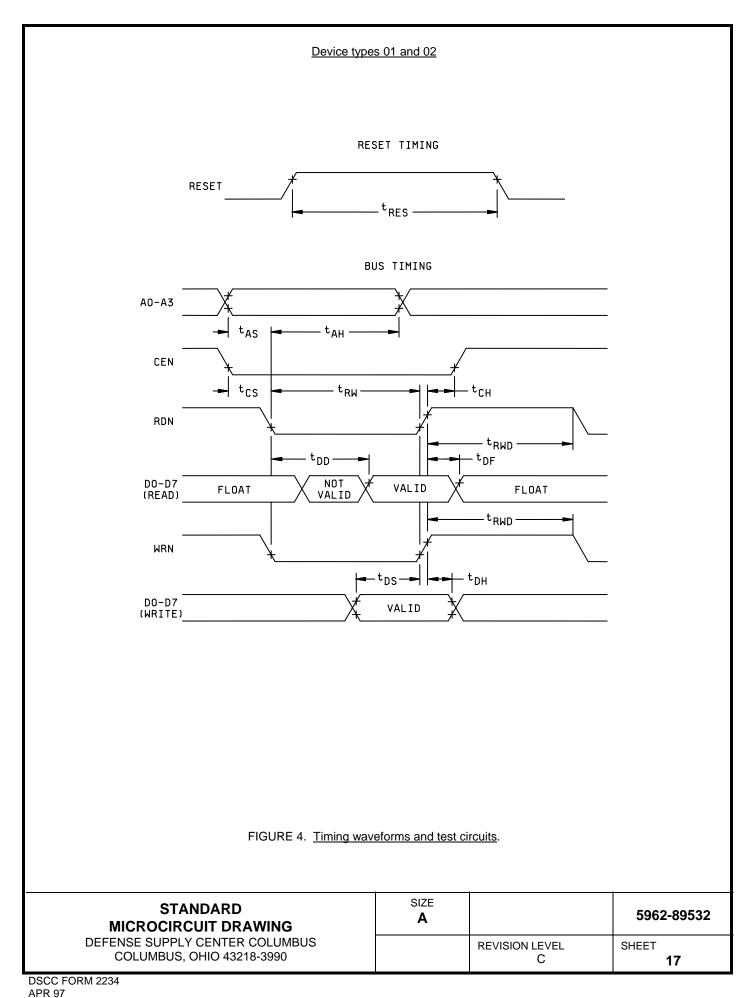
STANDARD MICROCIRCUIT DRAWING	SIZE A		5962-89532
DEFENSE SUPPLY CENTER COLUMBUS		REVISION LEVEL	SHEET
COLUMBUS, OHIO 43218-3990		C	14

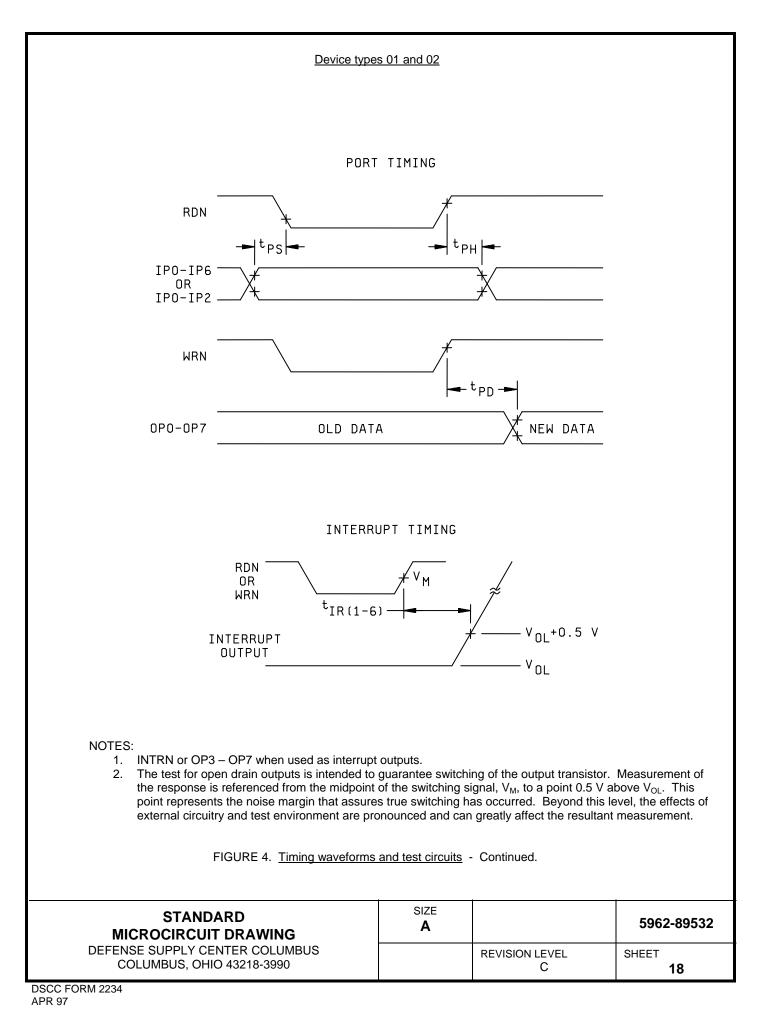
Device types 01 and 02

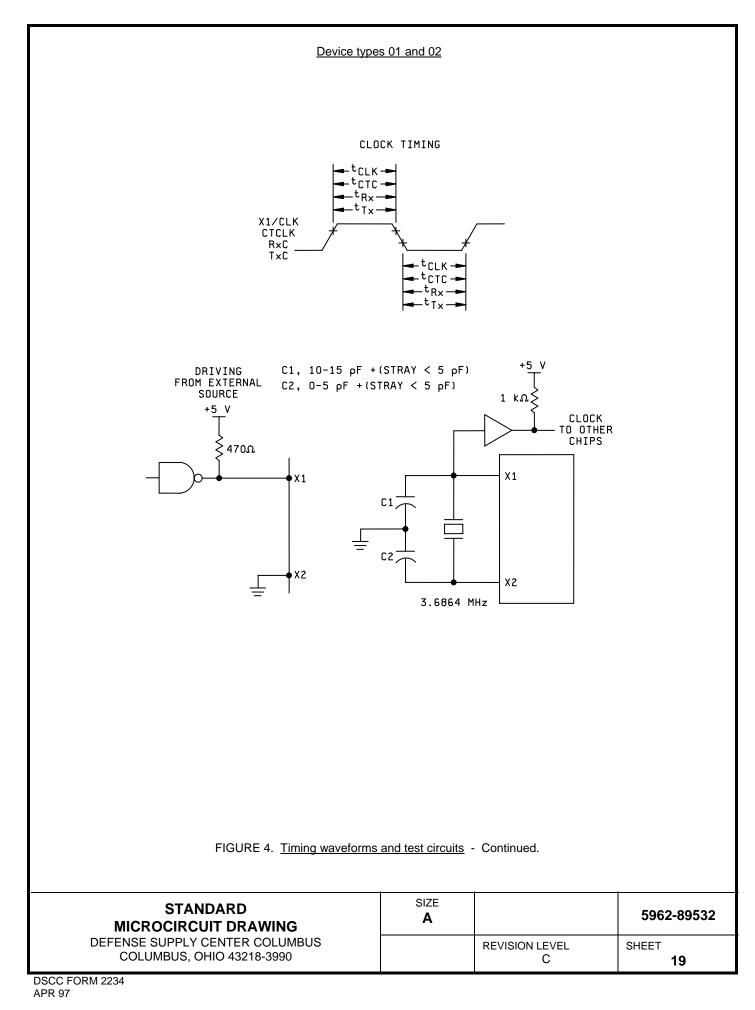


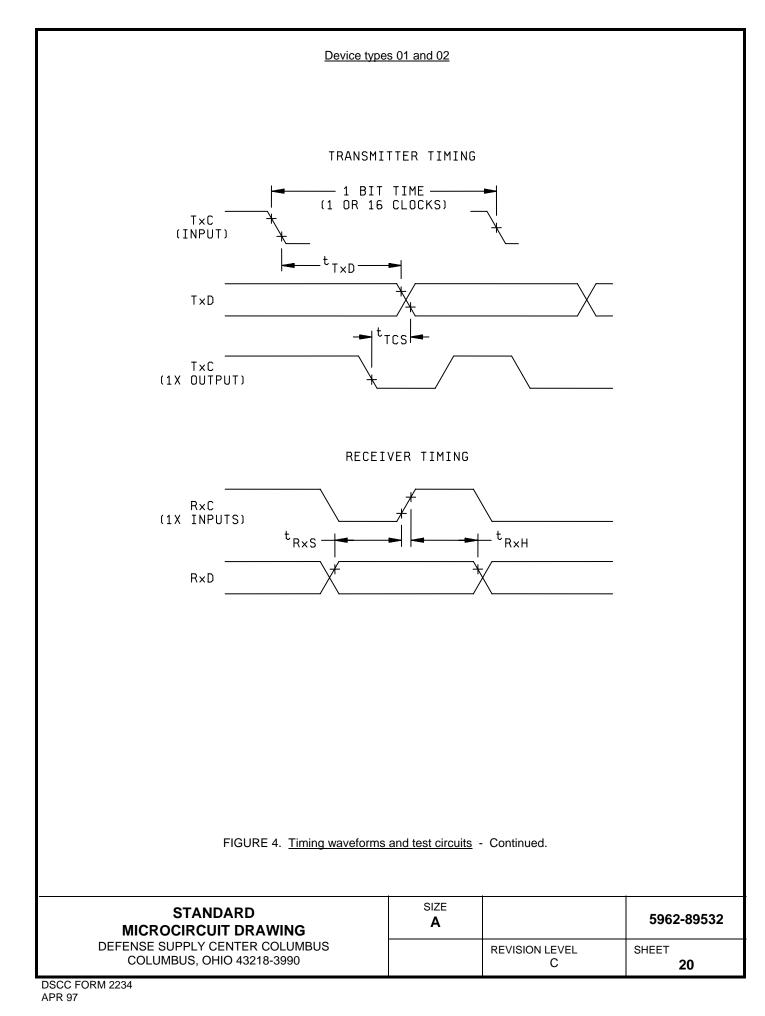
Device type 03

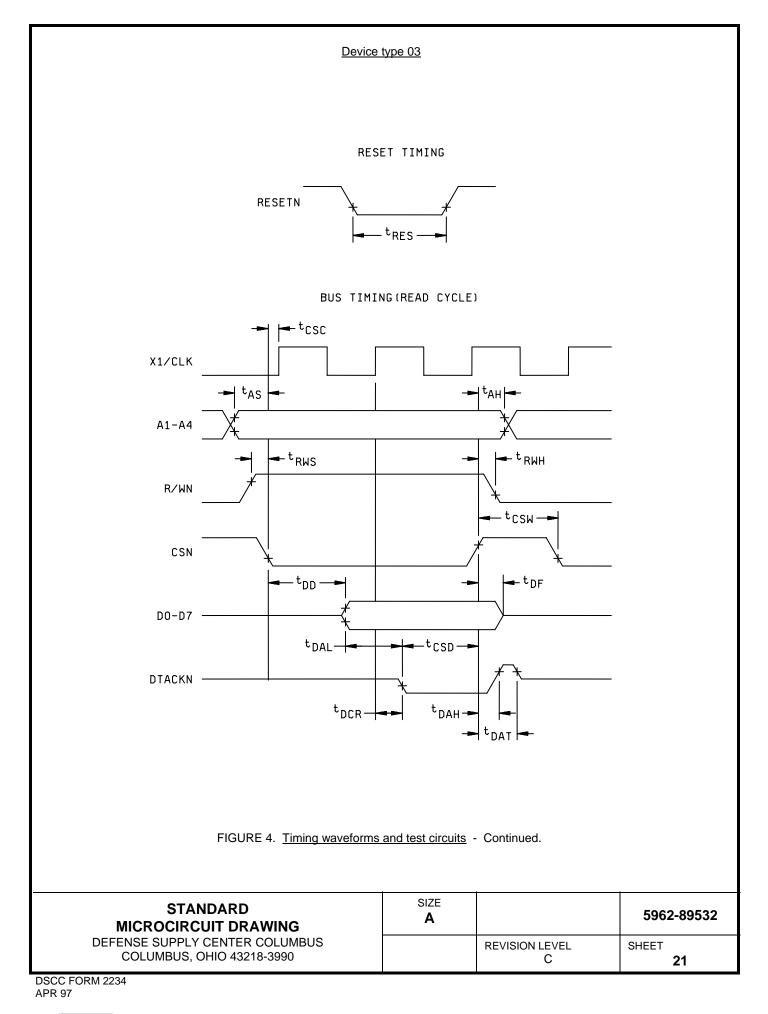






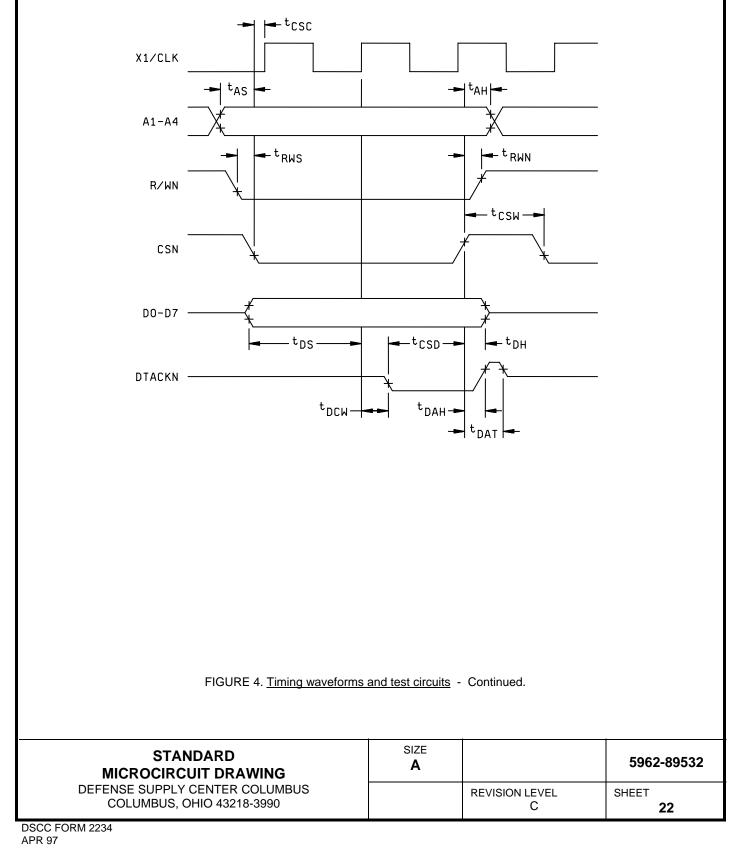


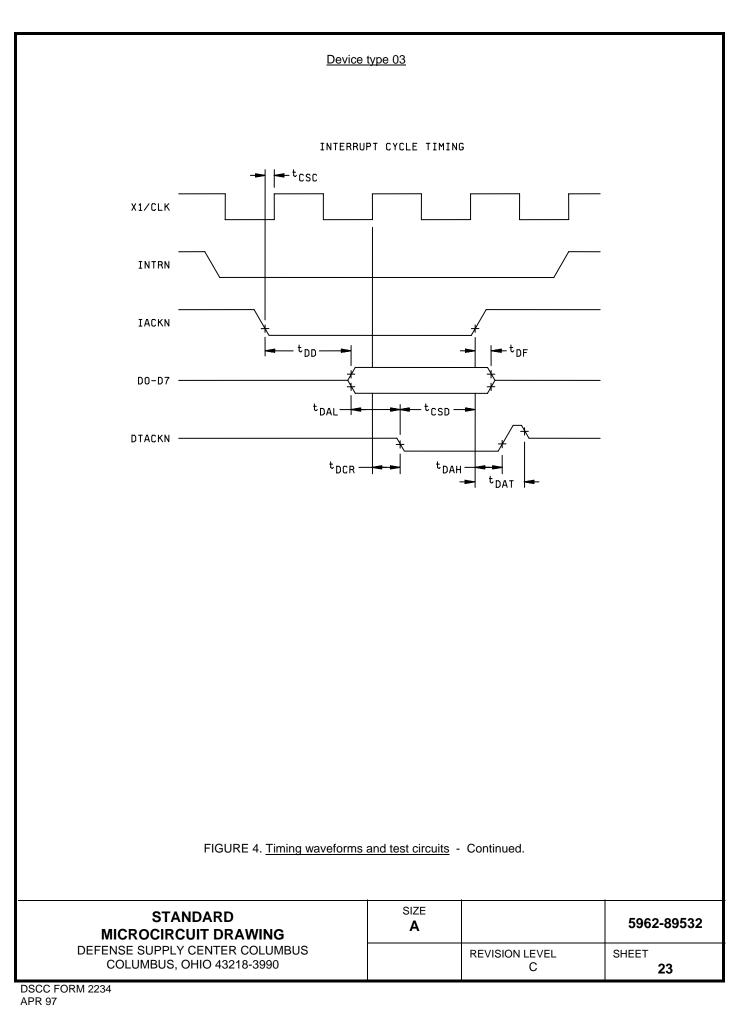


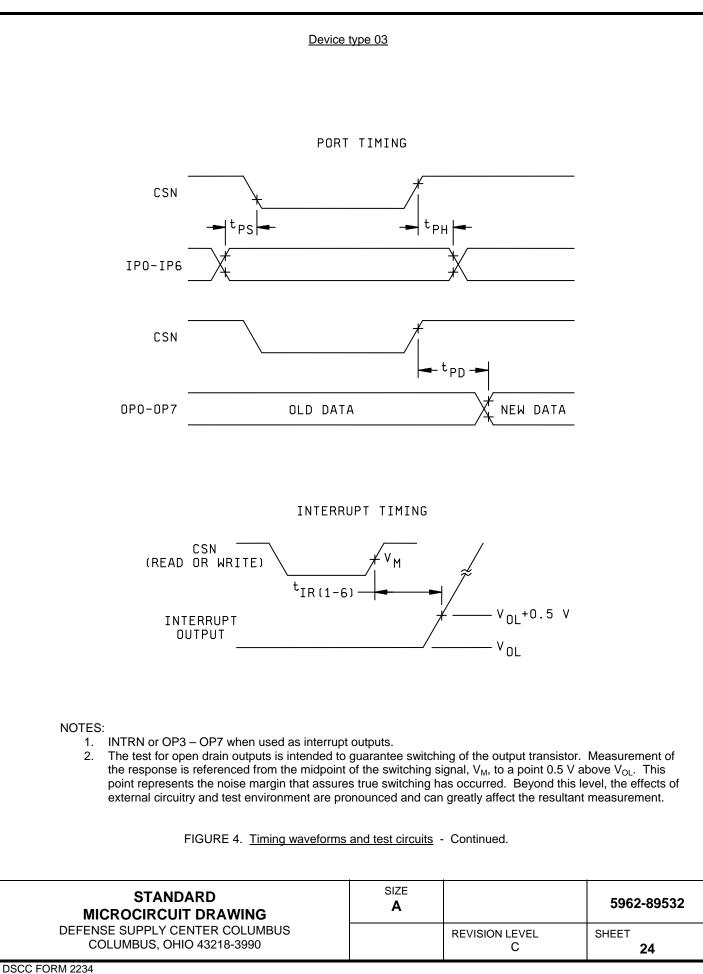


Device type 03

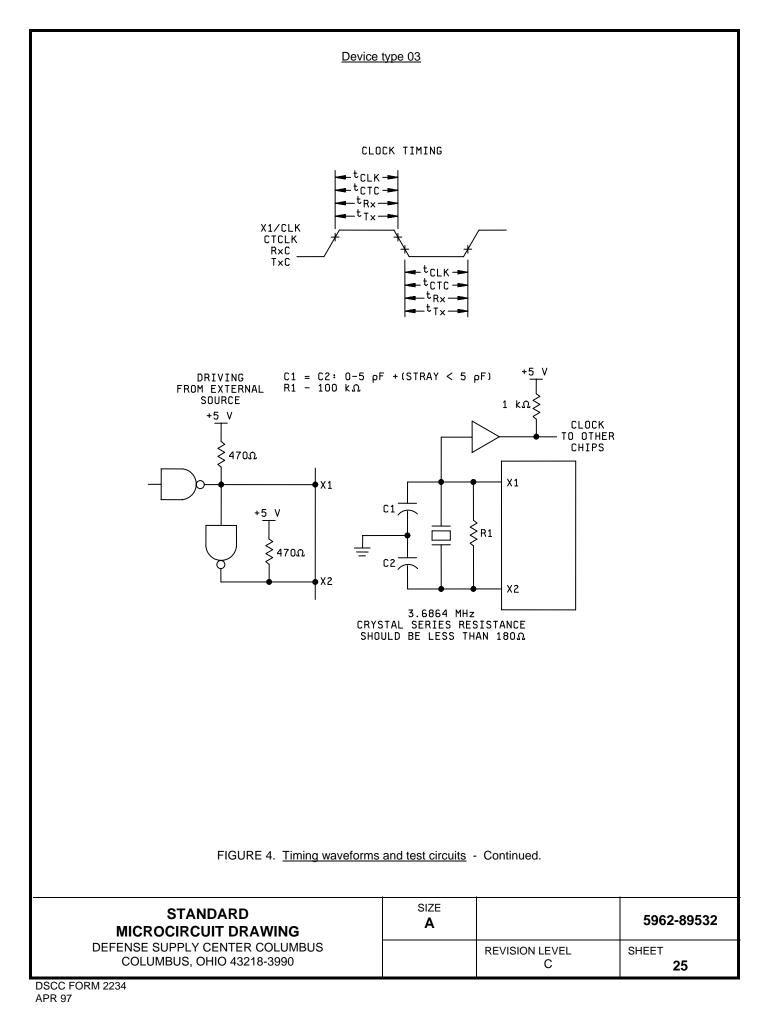
BUS TIMING (WRITE CYCLE)

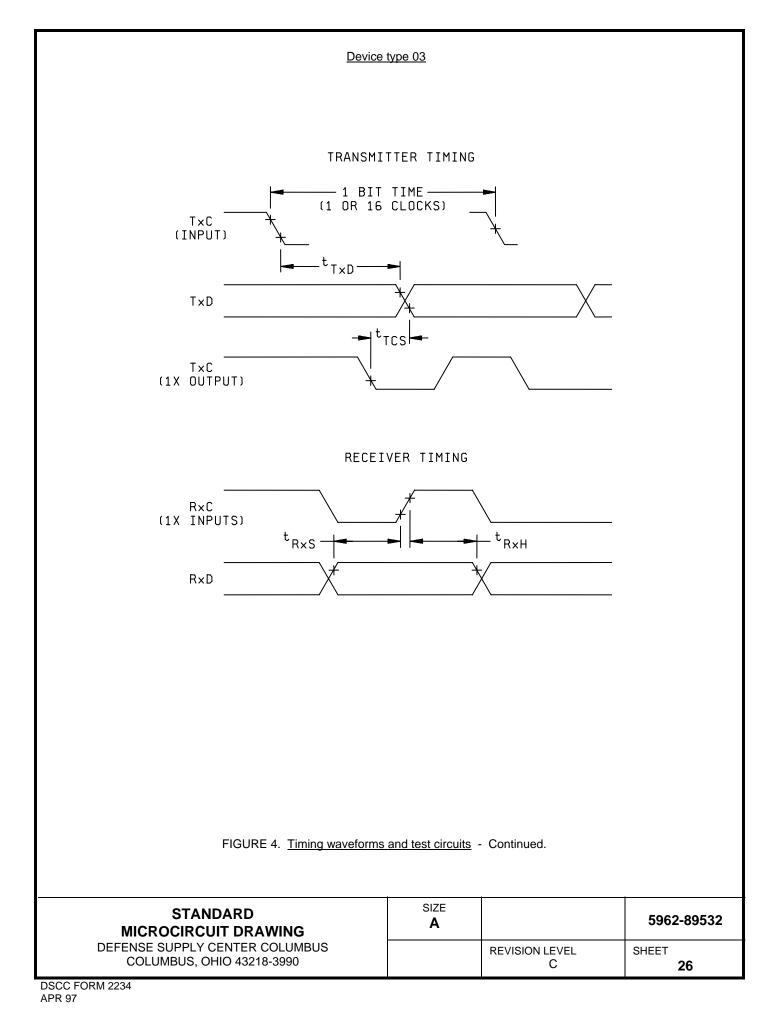






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### 4. VERIFICATION

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 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)	1
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)	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, and 6 in table I, method 5005 of MIL-STD-883 shall be omitted.
  - c. Subgroup 4 (C<sub>IN</sub> measurement) shall be measured only for the initial test and after process or design changes which may affect capacitance. A minimum sample size of five devices with zero rejects shall be required.
  - d. Subgroups 7 and 8 shall include verification of the 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.

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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 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 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 <u>Comments</u>. Comments on this drawing should be directed to DSCC-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 DSCC-VA.

6.7 Pin descriptions. The pin descriptions for the device types herein are as defined in table III as follows:

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# TABLE III. Pin descriptions.

For device types 01 and 02.

			kage		_	
Mnemonic	20		r of pins		Туре	Name and function
	28	40 De	44 vice:	52	- iype	
	01	02	02	02		
D0 - D7	x	x	x	x	I/O	Data Bus: Bidirectional three-state data bus used to transfer commands, data and status between the DUART and the CPU. D0 is the least significant bit.
CEN	x	x	x	x	I	<u>Chip Enable</u> : Active low input signal. When low, data transfers between the CPU and the DUART are enabled on D0 – D7 as controlled by the WRN, RDN, and $A0 - A3$ inputs. When high, places the D0 – D7 lines in three-state condition.
WRN	х	x	x	x	I	<u>Write Strobe</u> : When low and CEN is also low, the contents of the data bus are loaded into the addressed register. The transfer occurs on the rising edge of the signal.
RDN	x	x	х	x	I	Read Strobe: When low and CEN is also low, causes the contents of the addressed register to be presented on the data bus. The read cycle begins on the falling edge of RDN.
A0 – A3	х	x	х	x	I	Address Inputs: Selects the DUART internal registers and ports for read/write operations.
RESET	x	x	x	x	I	<u>Reset</u> : A high level clears internal registers (SRA, SRB, IMR, ISR, OPR, OPCR), puts OP0 – OP7 in the high state, stops the counter/timer, and puts channels A and B in the inactive state, with the TxDA and TxDB outputs in the mark (high) state.
INTRN	x	x	х	x	0	Interrupt Request: Active low, open drain, output which signals the CPU that one or more of the eight maskable interrupting conditions are true.
X1/CLK	x	x	x	x	I	<u>Crystal 1</u> : Crystal or external clock input. A crystal or clock of the specified limits must be supplied at all times. When a crystal is used, a capacitor must be connected from this pin to ground (see figure 4 herein).
X2	x	x	x	x		<u>Crystal 2</u> : Connection for other side of the crystal. When a crystal is used, a capacitor must be connected from this pin to ground (see figure 4 herein).
RxDA	х	x	x	x	I	Channel A Receiver Serial Data Input: The least significant bit is received first. "Mark" is high, "space" is low.
RxDB	х	x	x	x	I	<u>Channel B Receiver Serial Data Input</u> : The least significant bit is received first. "Mark" is high, "space" is low.

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For device types 01 and 02.

		Pacl	kage			
M		Number			-  <sub>-</sub> .	News en 17 - 1
Mnemonic	28	40	44	52	Туре	Name and function
	01	02	vice: 02	02	_	
TxDA	X	X	Х	X	0	<u>Channel A Transmitter Serial Data Output</u> : The least significant bit is transmitted first. This output is held in the "mark" condition when the transmitter is disabled, idle, or when operating in local loopback mode. "Mark" is high, "space" is low.
TxDB	×	x	х	x	0	<u>Channel B Transmitter Serial Data Output</u> : The least significant bit is transmitted first. This output is held in the "mark" condition when the transmitter is disabled, idle, or when operating in local loopback mode. "Mark" is high, "space" is low.
OPO	x	x	Х	х	0	<u>Output 0</u> : General purpose output, or channel A request to send (RTSAN, active low). Can be deactivated automatically on receive or transmit.
OP1	х	х	х	х	0	<u>Output 1</u> : General purpose output, or channel B request to send (RTSBN, active low). Can be deactivated automatically on receive or transmit.
OP2		x	х	х	ο	Output 2: General purpose output, or channel A transmitter 1X or 16X clock output, or channel A receiver 1X clock output.
OP3		х	х	х	0	<u>Output 3</u> : General purpose output, or open drain, active low counter/timer output, or channel B transmitter 1X clock output, or channel B receiver 1X clock output.
OP4		x	Х	х	ο	Output 4: General purpose output, or channel A open drain, active low, RxRDYA/FFULLA output.
OP5		x	Х	х	ο	Output 5: General purpose output, or channel B open drain, active low, RxRDYB/FFULLB output.
OP6		x	Х	х	ο	Output 6: General purpose output, or channel A open drain, active low, TxRDYA output.
OP7		x	Х	х	ο	Output 7: General purpose output, or channel B open drain, active low, TxRDYB output.
IP0		x	Х	х	I	Input 0: General purpose input, or channel A clear to send active low input (CTSAN).
IP1		x	Х	х	I	Input 1: General purpose input, or channel B clear to send active low input (CTSBN).
IP2	х	х	х	х	I	Input 2: General purpose input, or counter/timer external clock input.

STANDARD						
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For device types 01 and 02.

			kage			
	Number of pins:					
Mnemonic	28	40	44	52	Туре	Name and function
			/ice:		_	
	01	02	02	02		
IP3		x	x	х	I	<u>Input 3</u> : General purpose input, or channel A transmitter external clock input (TxCA). When the external clock is used by the transmitter, the transmitted data is clocked on the falling edge of the clock.
IP4		x	x	x	I	Input 4: General purpose input, or channel A receiver external clock input (RxCA). When the external clock is used by the receiver, the received data is sampled on the rising edge of the clock.
IP5		x	x	x	I	Input 5: General purpose input, or channel B transmitter external clock input (TxCB). When the external clock is used by the transmitter, the transmitted data is clocked on the falling edge of the clock.
IP6		x	x	Х	I	Input 6: General purpose input, or channel B receiver external clock input (RxCB). When the external clock is used by the receiver, the received data is sampled on the rising edge of the clock.
V <sub>CC</sub>	х	x	х	х	<u> </u>	Power Supply: +5 V supply input.
GND	х	х	х	х	I	<u>Ground</u> : Ground.

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For device type 03.

Mnemonic	Pin number <u>1</u> /	Туре	Name and function
D0 – D7	25, 16, 24, 17, 23, 18, 22, 19	I/O	Data Bus: Bidirectional three-state data bus used to transfer commands, data and status between the DUART and the CPU. D0 is the least significant bit.
CSN	35	I	<u>Chip Select</u> : Active low input signal. When low, data transfers between the CPU and the DUART are enabled on $D0 - D7$ as controlled by the R/WN and A1 – A4 inputs. When high, places the $D0 - D7$ lines in the three-state condition.
R/WN	8	I	Read/Write: A high input indicates a read cycle and a low input indicates a write cycle, when a cycle is initiated by assertion of the CSN input.
A1 – A4	1, 3, 5, 6	I	Address Inputs: Selects the DUART internal registers and ports for read/write operations.
RESETN	34	I	<u>Reset</u> : A low clears internal registers (SRA, SRB, IMR, ISR, OPR, OPCR), initializes the IVR to hex 0F, puts OP0 – OP7 in the high state, stops the counter/timer, and puts channel A and B in the inactive state, with the TxDA and TxDB outputs in the "mark" (high) state.
DTACKN	9	0	Data Transfer Acknowledge: Three-state active low output asserted in write, read, or interrupt cycles to indicate proper transfer of data between the CPU and the DUART.
INTRN	21	0	Interrupt Request: Active low, open drain output which signals the CPU that one or more of the eight maskable interrupting conditions are true.
IACKN	37	I	Interrupt Acknowledge: Active low input indicating an interrupt acknowledge cycle. In response, the DUART will place the interrupt vector on the data bus and will assert DTACKN if it has an interrupt pending.
X1/CLK	32	I	<u>Crystal 1</u> : Crystal or external clock input. A crystal or clock of the specified limits must be supplied at all times. If a crystal is used, a capacitor must be connected from this pin to ground (see figure 4 herein).
X2	33	I	<u>Crystal 2</u> : Connection for other side of the crystal. If a crystal is used, a capacitor must be connected from this pin to ground (see figure 4 herein). If an external clock is used, this pin should be grounded.
RxDA	31	I	Channel A Receiver Serial Data Input: The least significant bit is received first. "Mark" is high, "space" is low.
RxDB	10	I	<u>Channel B Receiver Serial Data Input</u> : The least significant bit is received first. "Mark" is high, "space" is low.

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DEFENSE SUPPLY CENTER COLUMBUS		REVISION LEVEL	SHEET
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For device type 03.

Mnemonic	Pin number <u>1</u> /	Туре	Name and function
TxDA	30	0	<u>Channel A Transmitter Serial Data Output</u> : The least significant bit is transmitted first. This output is held in the "mark" condition when the transmitter is disabled, idle, or when operating in local loopback mode. "Mark" is high, "space" is low.
TxDB	11	0	<u>Channel B Transmitter Serial Data Output</u> : The least significant bit is transmitted first. This output is held in the "mark" condition when the transmitter is disabled, idle, or when operating in local loopback mode. "Mark" is high, "space" is low.
OPO	29	ο	<u>Output 0</u> : General purpose output, or channel A request to send (RTSAN, active low). Can be deactivated automatically on receive or transmit.
OP1	12	ο	<u>Output 1</u> : General purpose output, or channel B request to send (RTSBN, active low). Can be deactivated automatically on receive or transmit.
OP2	28	ο	Output 2: General purpose output, or channel A transmitter 1X or 16X clock output, or channel A receiver 1X clock output.
OP3	13	0	<u>Output 3</u> : General purpose output, or open drain, active low counter/timer output, or channel B transmitter 1X clock output, or channel B receiver 1X clock output.
OP4	27	ο	<u>Output 4</u> : General purpose output, or channel A open drain, active low, RxRDYA/FFULLA output.
OP5	14	ο	Output 5: General purpose output, or channel B open drain, active low, RxRDYB/FFULLB output.
OP6	26	ο	Output 6: General purpose output, or channel A open drain, active low, TxRDYA output.
OP7	15	ο	<u>Output 7</u> : General purpose output, or channel B open drain, active low, TxRDYB output.
IP0	7	I	Input 0: General purpose input, or channel A clear to send active low input (CTSAN).
IP1	4	I	Input 1: General purpose input, or channel B clear to send active low input (CTSBN).
IP2	36	I	Input 2: General purpose input, or channel B receiver external clock input (RxCB), or counter/timer external clock input. When the external clock is used by the receiver, the received data is sampled on the rising edge of the clock.

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For device type 03.

Mnemonic	Pin number <u>1</u> /	Туре	Name and function
IP3	2	I	Input 3: General purpose input, or channel A transmitter external clock input (TxCA). When the external clock is used by the transmitter, the transmitted data is clocked on the falling edge of the clock.
IP4	39	I	Input 4: General purpose input, or channel A receiver external clock input (RxCA). When the external clock is used by the receiver, the received data is sampled on the rising edge of the clock.
IP5	38	I	<u>Input 5</u> : General purpose input, or channel B transmitter external clock input (TxCB). When the external clock is used by the transmitter, the transmitted data is clocked on the falling edge of the clock.
V <sub>cc</sub>	40	I	Power Supply: +5 V supply input.
GND	20	I	Ground: Ground.

1/ All pin numbers are for dual-in-line package except 52 pin flat package.

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### STANDARD MICROCIRCUIT DRAWING BULLETIN

### DATE: 06-02-08

Approved sources of supply for SMD 5962-89532 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.dscc.dla.mil/Programs/Smcr/.

Standard	Vendor	Vendor	
microcircuit drawing	CAGE	similar	
PIN <u>1</u> /	number	PIN <u>2</u> /	
5962-8953201XA	0C7V7	2692/BXA	
	<u>3</u> /	XR88C681YA883C	
5962-8953202QA	0C7V7	2692/BQA	
	<u>3</u> /	XR88C681QA883C	
5962-8953202UA	0C7V7	2692/BUA	
	<u>3</u> /	XR88C681XC883C	
5962-8953202YA	0C7V7	2692/BYA	
5962-8953203QA	<u>3</u> /	XR68C681QA883C	
5962-8953203UA	<u>3</u> /	XR68C681X883C	

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

Vendor CAGE <u>number</u>

and address

Vendor name

0C7V7

QP Semiconductor 2945 Oakmead Village Court Santa Clara, CA 95051

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