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This revision described below has been authorized for the document listed.			
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			3. DODAAC
4. ORIGINATOR	b. ADDRESS (Street, City, State, Zip Code) Defense Electronics Supply Center 1507 Wilmington Pike Dayton, OH 45444-5270	5. CAGE CODE 67268	6. NOR NO. 5962-R069-94
a. TYPED NAME (First, Middle Initial, Last)		7. CAGE CODE 67268	8. DOCUMENT NO. 5962-89506
9. TITLE OF DOCUMENT MICROCIRCUIT, DIGITAL, FAST CMOS, BUS DRIVER, MONOLITHIC SILICON		10. REVISION LETTER	
		a. CURRENT Initial	b. NEW A
11. ECP NO. N/A			
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES ALL			
13. DESCRIPTION OF REVISION Sheet 1: Revisions ltr column; add "A". Revisions description column; add "Changes in accordance with NOR 5962-R069-94". Revisions date column; add "93-12-22". Revision level block; add "A". Rev status of sheets; for sheets 1 and 6, add "A". Sheet 6: Table I, output disable time, \overline{OE} to Y_n , t_{PHZ} and t_{PLZ} , $C_L = 50$ pF, device type 02; change maximum limit from "7.0 ns" to "8.0 ns". $C_L = 5.0$ pF, device type 01; change maximum limit from "19.0 ns" to "9.0 ns". $C_L = 5.0$ pF, device type 02; change maximum limit from "8.0 ns" to "7.0 ns". Revision level block; add "A".			
14. THIS SECTION FOR GOVERNMENT USE ONLY			
a. (X one)	<input checked="" type="checkbox"/>	(1) Existing document supplemented by the NOR may be used in manufacture.	
	<input type="checkbox"/>	(2) Revised document must be received before manufacturer may incorporate this change.	
	<input type="checkbox"/>	(3) Custodian of master document shall make above revision and furnish revised document.	
b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOVERNMENT DESC-ECC		c. TYPED NAME (First, Middle Initial, Last) Monica L. Poelking	
d. TITLE Chief, Custom Microelectronics	e. SIGNATURE Monica L. Poelking		f. DATE SIGNED (YYMMDD) 93-12-22
15a. ACTIVITY ACCOMPLISHING REVISION DESC-ECC	b. REVISION COMPLETED (Signature) Thanh V. Nguyen		c. DATE SIGNED (YYMMDD) 93-12-22

REVISIONS														
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED											
REV														
SHEET														
REV														
SHEET														
REV STATUS OF SHEETS	REV													
	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13
PMIC N/A	PREPARED BY <i>Monica L. Polking</i>	DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO 45444												
STANDARDIZED MILITARY DRAWING	CHECKED BY <i>Wm Johnson</i>													
	APPROVED BY <i>[Signature]</i>	MICROCIRCUIT, DIGITAL, FAST CMOS, BUS DRIVER, MONOLITHIC SILICON												
	DRAWING APPROVAL DATE 18 MAY 1989	SIZE A	CAGE CODE 67268	5962-89506										
AMSC N/A	REVISION LEVEL	SHEET 1 OF 14												

DESC FORM 193
SEP 87

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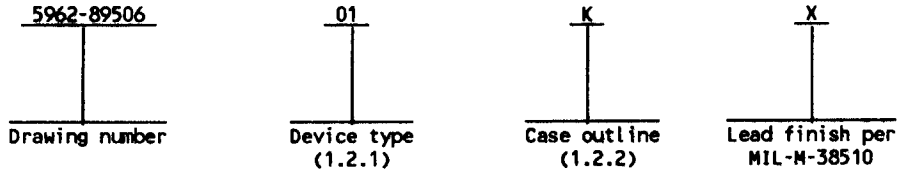
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5962-E1175

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
01	54FCT827A	10-bit non-inverting bus driver
02	54FCT827B	10-bit non-inverting bus driver

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
K	F-6 (24-lead, .640" X .420" X .090"), flat package
L	D-9 (24-lead, 1.280" X .310" X .200"), dual-in-line package
3	C-4 (28-terminal, .460" X .460" X .100"), square chip carrier package

1.3 Absolute maximum ratings. 1/

Supply voltage range - - - - -	-0.5 V dc to +6.0 V dc
Input voltage range- - - - -	-0.5 V dc to $V_{CC} + 0.5$ V dc
Output voltage range - - - - -	-0.5 V dc to $V_{CC} + 0.5$ V dc
DC input diode current (I_{IK}) - - - - -	-20 mA
DC output diode current (I_{OK}) - - - - -	-50 mA
DC output current- - - - -	±100 mA
Maximum power dissipation (P_D) 2/- - - - -	500 mW
Thermal resistance, junction-to-case (θ_{JC}) - - - - -	See MIL-M-38510, appendix C
Storage temperature range- - - - -	-65°C to +150°C
Junction temperature (T_J)- - - - -	+175°C
Lead temperature (soldering, 10 seconds) - - - - -	+300°C

1/ All voltages referenced to GND.

2/ Must withstand the added P_D due to short circuit test; e.g., I_{OS} .

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1.4 Recommended operating conditions.

Supply voltage range (V_{CC}) - - - - -	+4.5 V dc to +5.5 V dc
Maximum low level input voltage (V_{IL}) - - - - -	0.8 V dc
Minimum high level input voltage (V_{IH}) - - - - -	2.0 V dc
Case operating temperature range (T_C) - - - - -	-55°C to +125°C

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

MIL-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 Truth table. The truth table shall be as specified on figure 2.

3.2.3 Test circuit and switching waveforms. The test circuit and switching waveforms shall be as specified on figure 3.

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

3.3 Electrical performance characteristics. Unless otherwise specified, the electrical performance characteristics are as specified in table I and apply over the full case operating temperature range.

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TABLE 1. Electrical performance characteristics.

Test	Symbol	Conditions -55°C < T _C < +125°C V _{CC} = 5.0 V dc ±10% unless otherwise specified	Group A subgroups	Device type	Limits		Unit	
					Min	Max		
High level output voltage	V _{OH}	V _{CC} = 4.5 V, V _{IL} = 0.8 V, V _{IH} = 2.0 V	I _O = -300 μA	1,2,3	All	4.3	V	
			I _O = -12 mA	1,2,3	All	2.4		
Low level output voltage	V _{OL}	V _{CC} = 4.5 V, V _{IL} = 0.8 V, V _{IH} = 2.0 V	I _O = 300 μA	1,2,3	All		0.2	
			I _O = 32 mA	1,2,3	All		0.5	
Input clamp voltage	V _{IK}	V _{CC} = 4.5 V, I _{IN} = -18 mA	1	All			-1.2	
High level input current	I _{IH}	V _{CC} = 5.5 V, V _{IN} = 5.5 V	1,2,3	All			5.0	μA
Low level input current	I _{IL}	V _{CC} = 5.5 V, V _{IN} = GND	1,2,3	All			-5.0	
Off-state output current	I _{OZH}	V _{CC} = 5.5 V, V _{IN} = 5.5 V	1,2,3	All			10	
	I _{OZL}	V _{CC} = 5.5 V, V _{IN} = GND					-10	
Short circuit output current	I _{OS}	V _{CC} = 5.5 V, V _{OUT} = GND 1/	1,2,3	All	-75		mA	
Quiescent power supply current (CMOS inputs)	I _{CCQ}	V _{IN} ≤ 0.2 V or V _{IN} ≥ 5.3 V, V _{CC} = 5.5 V, f _I = 0.0 MHz	1,2,3	All			1.5	
Quiescent power supply current (TTL inputs)	delta I _{CC}	V _{CC} = 5.5 V, V _{IN} = 3.4 V 2/	1,2,3	All			2.0	

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 V _{CC} = 5.0 V dc ±10% unless otherwise specified	Group A subgroups	Device type	Limits		Unit	
					Min	Max		
Dynamic power supply current	I _{CCD}	V _{CC} = 5.5 V, OE = GND, V _{IN} ≥ 5.3 V or V _{IN} ≤ 0.2 V, Outputs open, One bit toggling, 50% duty cycle	3/	All		0.25	mA/ MHz	
Total power supply current 4/	I _{CC}	V _{IN} ≥ 5.3 V or V _{IN} ≤ 0.2 V, V _{CC} = 5.5 V, f _I = 10 MHz, Outputs open, OE = GND, One bit toggling, 50% duty cycle	1,2,3	All		4.0	mA	
		V _{IN} = 3.4 V or V _{IN} = GND, V _{CC} = 5.5 V, f _I = 10 MHz, Outputs open, OE = GND, One bit toggling, 50% duty cycle				5.0		
Functional tests		See 4.3.1d	7,8	All				
Input capacitance	C _{IN}	See 4.3.1c	4	All		10	pF	
Output capacitance	C _{OUT}	See 4.3.1c	4	All		12		
Propagation delay time, D _n to Y _n	t _{PLH} , t _{PHL}	R _L = 500Ω, See figure 3	C _L = 50 pF	9,10,11	01		10	ns
					02		6.5	
			C _L = 300 pF 5/	9,10,11	01		17	
					02		14	

See footnotes at end of table.

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TABLE 1. Electrical performance characteristics - Continued.

Test	Symbol	Conditions -55°C < T _c < +125°C V _{CC} = 5.0V dc ±10% unless otherwise specified	Group A subgroups	Device type	Limits		Unit	
					Min	Max		
Output enable time, OE to Y _n	t _{PZH} , t _{PZL}	R _L = 500Ω, See figure 3	C _L = 50 pF	9,10,11	01		17	ns
					02		9.0	
			C _L = 300 pF 5/	9,10,11	01		25	
					02		16	
Output disable time, OE to Y _n	t _{PHZ} , t _{PLZ}		C _L = 50 pF	9,10,11	01		10	
					02		7.0	
			C _L = 5.0 pF 5/	9,10,11	01		19	
					02		8.0	

1/ Not more than one output should be shorted at one time, and the duration of the short circuit condition shall not exceed 1 second.

2/ TTL driven input, V_{IN} = 3.4 V; all other inputs at V_{CC} or GND.

3/ This parameter is not directly testable, but is derived for use in total power supply calculations.

$$4/ I_{CC} = I_{CCQ} + (\Delta I_{CC} \times D_H \times N_T) + (I_{CCD} \times f_I \times N_I)$$

where D_H = Duty cycle for TTL inputs high

N_T = Number of TTL inputs at D_H

f_I = Input frequency in MHz

N_I = Number of inputs at f_I

5/ This parameter is guaranteed, if not tested, to the limits as specified in table 1.

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Device types	01 and 02	
Case outlines	K and L	3
Terminal number	Terminal symbol	
1	OE ₁	NC
2	D ₀	OE ₁
3	D ₀	D ₀
4	D ₁	D ₁
5	D ₂	D ₂
6	D ₃	D ₃
7	D ₄	D ₄
8	D ₅	NC
9	D ₆	D ₅
10	D ₇	D ₆
11	D ₈	D ₇
12	OE ₂	D ₈
13	Y ₂	GND
14	Y ₉	NC
15	Y ₈	OE ₂
16	Y ₇	Y ₂
17	Y ₆	Y ₉
18	Y ₅	Y ₈
19	Y ₄	Y ₇
20	Y ₃	Y ₆
21	Y ₁	Y ₅
22	Y ₀	NC
23	CC	Y ₄
24	---	Y ₃
25	---	Y ₂
26	---	Y ₁
27	---	Y ₀
28	---	CC

NC = No connection

FIGURE 1. Terminal connections.

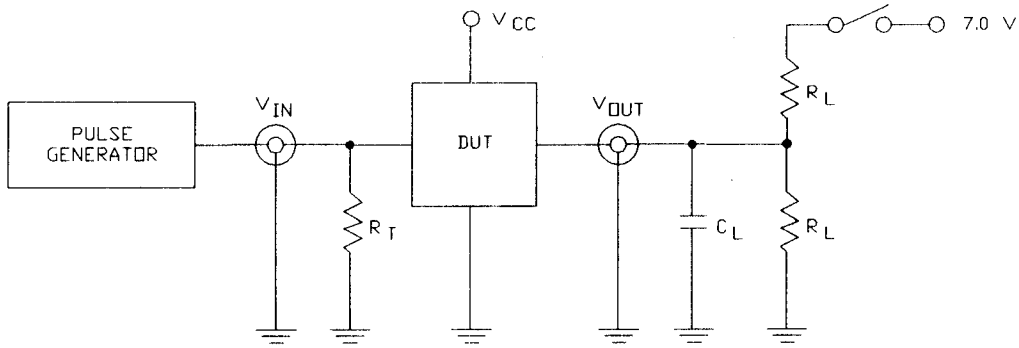
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Inputs			Output	Function
\overline{OE}_1	\overline{OE}_2	D_n	Y_n	
L	L	L	L	Transparent
L	L	H	H	Transparent
H	X	X	Z	Three-state
X	H	X	Z	Three-state

H = High voltage level
 L = Low voltage level
 X = Irrelevant
 Z = High impedance state

FIGURE 2. Truth table.

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Switch position

Test	Switch
t_{PLZ}	Closed
t_{pZL}	Closed
All others	Open

NOTES:

1. C_L includes jig and probe capacitance.
2. $R_L = 500\Omega$; $C_L = 50$ pF; $R_T = Z_{OUT}$ of pulse generators.
3. Pulse generator for all pulses: $PRR \leq 1.0$ MHz, $Z_{OUT} \leq 50\Omega$,
 $t_r = t_f \leq 2.5$ ns.

FIGURE 3. Test circuit and switching waveforms.

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PROPAGATION DELAY WAVEFORMS

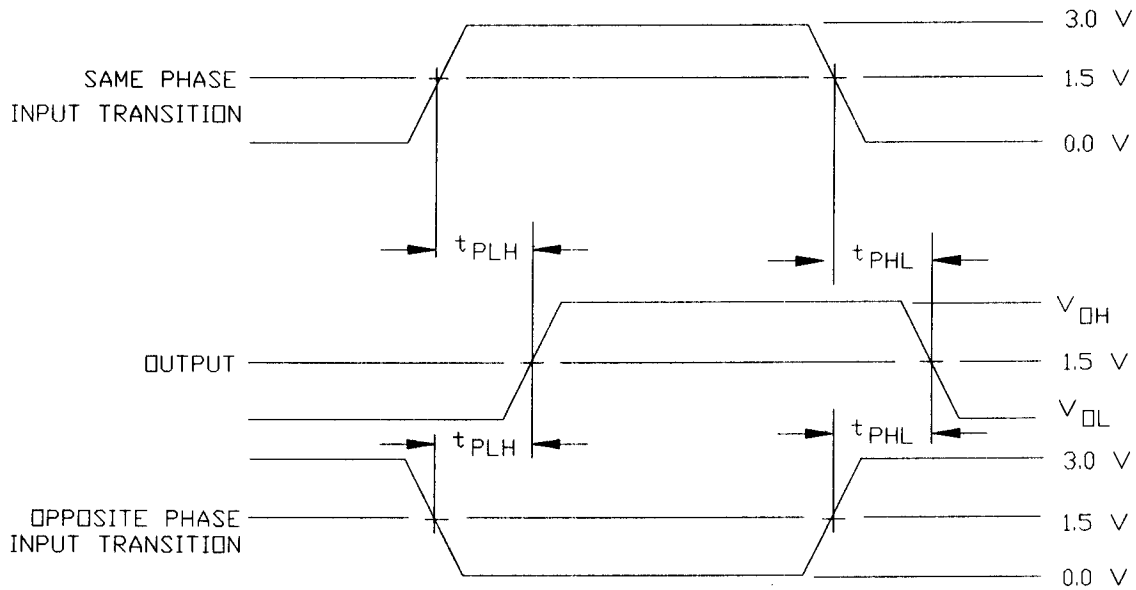


FIGURE 3. Test circuit and switching waveforms - Continued.

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ENABLE AND DISABLE TIMES

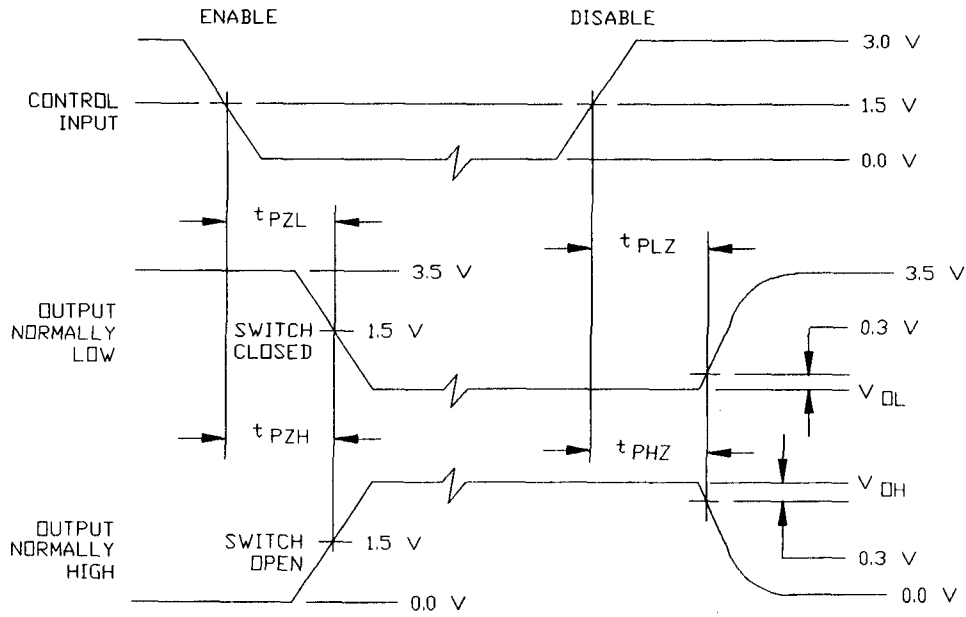


FIGURE 3. Test circuit and switching waveforms - Continued.

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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 6.4 herein

3.5 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 6.4. 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 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.

3.7 Notification of change. Notification of change to DESC-ECS shall be required in accordance with MIL-STD-883 (see 3.1 herein).

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 A, B, C, or D using the circuit submitted with the certificate of compliance (see 3.5 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 process or design changes which may affect capacitance. Test all applicable pins on five devices with zero failures.

d. Subgroups 7 and 8 tests shall verify the truth table as specified on figure 2.

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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)	1,2,3

*PDA applies to subgroup 1.

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 using the circuit submitted with the certificate of compliance (see 3.5 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.

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.

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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 513-296-5375.

6.4 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 herein) has been submitted to DESC-ECS.

Military drawing part number	Vendor CAGE number	Vendor similar part number ^{1/}
5962-8950601KX	61772	54FCT827AEB
5962-8950601LX	61772	54FCT827ADB
5962-89506013X	61772	54FCT827ALB
5962-8950602KX	61772	54FCT827BEB
5962-8950602LX	61772	54FCT827BDB
5962-89506023X	61772	54FCT827BLB

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

Vendor CAGE number

61772

Vendor name and address

Integrated Device Technology
3236 Scott Boulevard
Santa Clara, CA 95052

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[NLU3G16AMX1TCG](#) [NLV27WZ125USG](#) [MC74HCT365ADTR2G](#) [BCM6306KMLG](#) [54FCT240CTDB](#) [Le87401NQC](#) [Le87402MQC](#)
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[74LVC1G17FW4-7](#) [74LVC1G126FZ4-7](#) [BCM6302KMLG](#) [74LVC1G07FZ4-7](#) [74LVC1G125FW4-7](#)