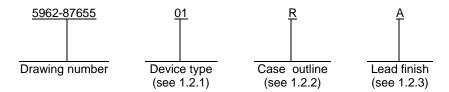
LTR					[	DESCR	RIPTION	٧					DATE (YR-MO-DA)			DA)	APPROVED		)	
А	Add vendor CAGE number 75569. Add device type 02. Add Technical changes in table I. Editorial changes throughout.					case c	outline	S.	89-03-28			D. M. Cool								
В		ate boile ghout.			-PRF-3	8535 re	equiren	nents.	Editoria	al chan	ges			03-0	8-22		Thomas M. Hess			
С		footnote ate boile G											10-01-14			Thomas M. Hess				
D		footnote ate boile A								5 requi	rement	S.		10-1	2-28		Thor	nas M.	Hess	
REV SHEET REV																				
SHEET REV SHEET				PEW																
SHEET REV SHEET REV STATUS	6			REV			D 1	D 2	D 3	D 4	D 5	D 6	D 7	D 8	D 9	D 10	D 11	D 12		
SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A	NDAF			SHE	ET PAREC	onica L BY	1 . Poelki	2	D 3	D 4	D 5	6	7 DLA I	8 LAND IBUS,	9 AND OHIO	D 10  O MAF  O 432  cc.dla	11 RITIM 218-3	12 E		
SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A STA	ANDAR OCIRO	CUIT		SHE	ET PARED Mo	onica L BY	1	2				6	7 DLA I	8 LAND IBUS,	9 AND OHIO	10 MAF O 432	11 RITIM 218-3	12 E		
SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A STA MICRO DR	ANDAR OCIRO AWINO	CUIT G VAILAE	BLE	SHE PREI	ET PARED Mo	BY Ray M	1 . Poelki	2		4 MIC	5 CROC	6 CC	7 DLA I DLUM http	8 LAND IBUS, o://ww	9 AND OHIC	10  MAF  O 432  cc.dla	218-3: a.mil	12 E 990	D \\/\)	TU
SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A STA MICRO DR THIS DRAWN FOR U	ANDAR OCIRO AWINO ING IS A USE BY A ARTMEN ENCIES O	CUIT G VAILAE ALL ITS OF THE	Ē	SHE PREI	PARED Mo CKED	BY Ray M D BY D. M.	1 . Poelki	2 ing		MIC INV	5	CIRCUING (STAT	7 DLA I DLUM http  JIT, [ DCTA	BUS, DIGITAL LIN	9 AND OHIO W.ds	D MAF D 432 cc.dla FAST RIVE	218-39 a.mil	12 E 990 OS, JFFE		TH
SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A  STA MICRO DR  THIS DRAWI FOR U DEPA AND AGE DEPARTME	ANDAR OCIRO AWINO ING IS A USE BY A ARTMEN ENCIES O	CUIT G VAILAE ALL ITS DF THE DEFEN:	Ē	SHE PREI	PAREE MG CKED ROVEE	BY Ray M D BY D. M. APPRO  87-1	1 Poelki Monnin Cool DVAL D	2 ing		MIC INV THE INP	SROC ERTI	6 CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	7 DLA I DLUM http  JIT, [ DCTA	8 LANDIBUS, DIGITAL LIN JTPL THIC	9 AND OHIO W.ds	D MAFO 432 CC.dla	218-39 a.mil	E 990 OS, JFFE PATI	BLE	TH

DSCC FORM 2233 APR 97

5962-E140-11

## 1. SCOPE

- 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:



1.2.1 Device type(s). The device type(s) identify the circuit function as follows:

Device type	Generic number	Circuit function
01	54FCT240	Inverting octal line driver/buffer with three-state, TTL compatible inputs
02	54FCT240A	Inverting octal line driver/buffer with three-state, TTL compatible inputs

1.2.2 Case outline(s). The case outline(s) are as designated in MIL-STD-1835 and as follows:

Outline letter	Descriptive designator	<u>Terminals</u>	Package style
R	GDIP1-T20 or CDIP2-T20	20	Dual-in-line
S	GDFP2-F20 or CDFP3-F20	20	Flat pack
2	CQCC1-N20	20	Square leadless 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/

Supply voltage range	-0.5 V dc to +6.0 V dc
Input voltage range	$-0.5 \text{ V}$ dc to $V_{CC} + 0.5 \text{ V}$ dc
Output voltage range	-0.5 V dc to $V_{CC}$ + 0.5 V dc
DC input diode current (I <sub>IK</sub> )	-20 mA
DC output diode current (I <sub>OK</sub> )	-50 mA
DC output current	±100 mA
Maximum power dissipation (P <sub>D</sub> ) <u>2</u> /	500 mW
Thermal resistance, junction-to-case (θ <sub>JC</sub> )	See MIL-STD-1835
Storage temperature range	-65°C to +150°C
Junction temperature (T <sub>J</sub> )	
Lead temperature (soldering, 10 seconds)	

1.4 Recommended operating conditions.

Supply voltage range (V <sub>CC</sub> )	+4.5 V dc to +5.5 V dc
Maximum low level input voltage (V <sub>IL</sub> )	0.8 V dc
Minimum high level input voltage (V <sub>IH</sub> )	
Case operating temperature range (T <sub>C</sub> )	-55°C to +125°C

- $\underline{1}'$  All voltages are referenced to GND.  $\underline{2}'$  Must withstand the added  $P_D$  due to short circuit test; e.g.,  $I_{OS}.$

STANDARD MICROCIRCUIT DRAWING	SIZE <b>A</b>		5962-87655
DLA LAND AND MARITIME COLUMBUS, OHIO 43218-3990		REVISION LEVEL D	SHEET 2

### 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 outline(s)</u>. The case outline(s) 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 Truth table. The truth table shall be as specified on figure 2.
  - 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 or ambient) 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.

STANDARD MICROCIRCUIT DRAWING	SIZE <b>A</b>		5962-87655
DLA LAND AND MARITIME COLUMBUS, OHIO 43218-3990		REVISION LEVEL D	SHEET 3

- 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 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 <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.

STANDARD					
MICROCIRCUIT DRAWING					
DLA LAND AND MARITIME					
COLUMBUS, OHIO 43218-3990					

SIZE <b>A</b>		5962-87655
	REVISION LEVEL D	SHEET 4

		TABLE I. Ele	ectrical performance	characteristics	<u>S</u> .								
Test	Symbol	Symbol	Symbol	Symbol	Symbol	Symbol	-55°C ≤	conditions T <sub>C</sub> ≤ +125°C	Device type	Group A subgroups	Lir	mits	Unit
			0 V dc ±10% erwise specified			Min	Max						
High level output	V <sub>OH</sub>	$V_{CC} = 4.5 \text{ V}$	Ι <sub>ΟΗ</sub> = -300 μΑ	All	1, 2, 3	4.3		V					
voltage		$V_{IL} = 0.8 \text{ V}$ $V_{IH} = 2.0 \text{ V}$	I <sub>OH</sub> = -12 mA	All	1, 2, 3	2.4							
Low level output	V <sub>OL</sub>	$V_{CC} = 4.5 \text{ V}$ $V_{IL} = 0.8 \text{ V}$	I <sub>OL</sub> = +300 μA	All	1, 2, 3		0.2	V					
voltage		$V_{IH} = 0.8 \text{ V}$ $V_{IH} = 2.0 \text{ V}$	I <sub>OL</sub> = +32 mA	All	1, 2, 3		0.5						
Input clamp voltage	V <sub>IK</sub>	$V_{CC} = 4.5 \text{ V}, I_{IN} =$	= -18 mA	All	1		-1.2	V					
High level input current	I <sub>IH</sub>	$V_{CC} = 5.5 \text{ V}, V_{IN}$	= 5.5 V	All	1, 2, 3		5.0	μА					
Low level input current	I <sub>IL</sub>	V <sub>CC</sub> = 5.5 V, V <sub>IN</sub> = GND		All	1, 2, 3		-5.0	μА					
High impedance	l <sub>ozh</sub>	$V_{CC} = 5.5 \text{ V}, V_{IN} = 5.5 \text{ V}$		All	1, 2, 3		10	μΑ					
output current	I <sub>OZL</sub>	$V_{CC} = 5.5 \text{ V}, V_{IN}$	= GND	All	1, 2, 3		-10						
Short circuit output current	los	V <sub>CC</sub> = 5.5 V <u>1</u> /		All	1, 2, 3	-60		mA					
Quiescent power supply current (CMOS inputs)	I <sub>ccq</sub>	$\begin{aligned} V_{IN} &\leq 0.2 \text{ V or } V_{II} \\ V_{CC} &= 5.5 \text{ V} \\ f_i &= 0 \text{ MHz} \end{aligned}$	<sub>N</sub> ≥ 5.3 V	All	1, 2, 3		1.5	mA					
Quiescent power supply current (TTL inputs)	Δl <sub>CC</sub>	$V_{CC} = 5.5 \text{ V}$ $V_{IN} = 3.4 \text{ V} \ \underline{2}/$		All	1, 2, 3		2.0	mA					
Dynamic power supply current	Іссь	$\begin{array}{l} V_{CC} = 5.5 \text{ V} \\ \hline 0E = \text{GND} \\ V_{\text{IN}} \geq 5.3 \text{ V or } V_{\text{IN}} \leq 0.2 \text{ V} \\ \text{One bit toggling} \\ 50\% \text{ duty cycle} \\ \text{Output open} \end{array}$		All	<u>3</u> /		0.25	mA/ MHz					
Total power supply current <u>4</u> / <u>5</u> / <u>7</u> /	I <sub>cc</sub>	$V_{CC} = 5.5 \text{ V}$ Outputs open $\overline{OE} = \text{GND}$ One bit toggling	$V_{IN} \geq 5.3 \text{ V}$ or $V_{IN} \leq 0.2 \text{ V}$	All	1, 2, 3		4.0	mA					
		50% duty cycle f <sub>i</sub> = 10 MHz	$V_{IN} \ge 3.4 \text{ V}$ or $V_{IN} = GND$	All	1, 2, 3		4.8	mA					

See footnotes at end of table.

STANDARD MICROCIRCUIT DRAWING	SIZE <b>A</b>		5962-87655
DLA LAND AND MARITIME COLUMBUS, OHIO 43218-3990		REVISION LEVEL D	SHEET 5

TABLE I. <u>Electrical performance characteristics</u> – Continued.								
Test	Symbol	Test conditions $-55^{\circ}C \le T_C \le +125^{\circ}C$	Device type	Group A subgroups	Li	mits	Unit	
		$V_{CC}$ = 5.0 V dc ±10% unless otherwise specified			Min	Max		
Input capacitance	C <sub>IN</sub>	See 4.3.1c	All	4		10	pF	
Output capacitance	C <sub>OUT</sub>	See 4.3.1c	All	4		12	pF	
Functional tests		See 4.3.1d	All	7, 8				
Propagation delay time,	t <sub>PLH</sub> ,	C <sub>L</sub> = 50 pF ±10%	01	9, 10, 11	1.5	9.0	ns	
$D_n$ to $\overline{On}$	t <sub>PHL</sub>	$R_L = 500\Omega \pm 5\%$ See figure 4 6/	02	9, 10, 11	1.5	5.1		
Output enable time,	t <sub>PZH</sub> ,	See ligure 4 <u>o</u> /	01	9, 10, 11	1.5	10.5	ns	
$\overline{OE}_n$ to $\overline{On}$	$t_{PZL}$		02	9, 10, 11	1.5	6.5		
Output disable time,	t <sub>PHZ</sub> ,		01	9, 10, 11	1.5	12.5	ns	
OE <sub>n</sub> to On	t <sub>PLZ</sub>		02	9, 10, 11	1.5	5.9		

- 1/ Not more than one output should be shorted at one time, and the duration of the short circuit condition should not exceed one second.
- 2/ TTL driven input (V<sub>IN</sub> = 3.4 V); all other inputs at V<sub>CC</sub> or GND.
- 3/ This parameter is not directly testable, but is derived for use in total power supply calculations.

 $f_I$  = Input frequency in MHz.  $N_I$  = Number of inputs at  $f_I$ .

- 5/ For I<sub>CC</sub> test in an ATE environment, the effect of parasitic output capacitive loading from the test environment must be taken into account, as its effect is not intended to be included in the test results. The impact must be characterized and appropriate offset factors must be applied to the test result.
- 6/ The minimum limits are guaranteed, if not tested, to the specified limits.
- $\underline{7}'$  The Supplier/ Vendor (cage code 0C7V7 ) devices meet total power supply current limit, Icc = 5.5 mA at  $V_{IN} \ge 5.3$  V or  $V_{IN} \le 0.2$  V, and Icc = 6.0 mA at  $V_{IN} \ge 3.4$  V or  $V_{IN} = GND$ ; although table I stated Icc = 4.0 mA and 4.8 mA.

STANDARD MICROCIRCUIT DRAWING	SIZE <b>A</b>		5962-87655
DLA LAND AND MARITIME COLUMBUS, OHIO 43218-3990		REVISION LEVEL D	SHEET 6

Device types	01 and 02
Case outlines	R, S, and 2
Terminal number	Terminal symbol
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	$\begin{array}{c} \overline{OE}_A \\ \overline{DA}_0 \\ \overline{OB}_0 \\ \overline{DA}_1 \\ \overline{OB}_1 \\ \overline{DA}_2 \\ \overline{OB}_2 \\ \overline{DA}_3 \\ \overline{OB}_3 \\ \overline{OB}_3 \\ \overline{OND} \\ \overline{DB}_3 \\ \overline{OA}_3 \\ \overline{DB}_2 \\ \overline{OA}_2 \\ \overline{DB}_1 \\ \overline{OA}_1 \\ \overline{DB}_0 \\ \overline{OA}_0 \\ \overline{OE}_B \\ V_{CC} \end{array}$

FIGURE 1. <u>Terminal connections</u>.

Device types 01 and 02		
Inputs		Output
$\overline{OE}_A$ , $\overline{OE}_B$	$DA_n,DB_n$	$\overline{OA}_n$ , $\overline{OB}_n$
L	L	Н
L	Н	L
Н	Х	Z

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

FIGURE 2. Truth table.

STANDARD MICROCIRCUIT DRAWING	SIZE <b>A</b>		5962-87655
DLA LAND AND MARITIME COLUMBUS, OHIO 43218-3990		REVISION LEVEL D	SHEET <b>7</b>

# DEVICE TYPES 01 AND 02

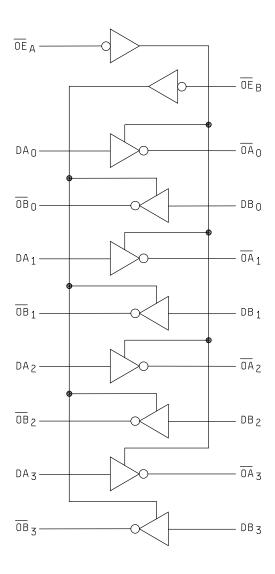
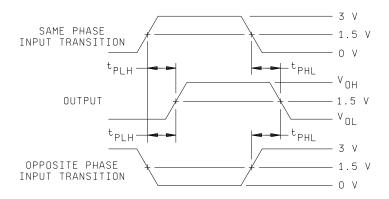


FIGURE 3. Logic diagram.

STANDARD MICROCIRCUIT DRAWING	SIZE <b>A</b>		5962-87655
DLA LAND AND MARITIME COLUMBUS, OHIO 43218-3990		REVISION LEVEL D	SHEET 8

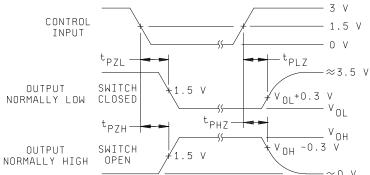
### DEVICE TYPES 01 AND 02

### PROPAGATION DELAY



## DEVICE TYPES 01 AND 02

ENABLE AND DISABLE TIMES
ENABLE DISABLE

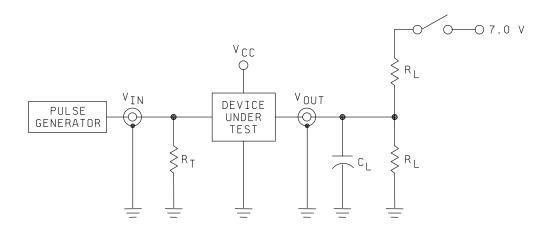


### NOTES:

- 1. Diagram shown for input control enable low and input control disable high.
- 2. Pulse generator for all pulses:  $t_f \le 2.5$  ns,  $t_r \le 2.5$  ns.

FIGURE 4. Switching waveforms and test circuit.

STANDARD MICROCIRCUIT DRAWING	SIZE <b>A</b>		5962-87655
DLA LAND AND MARITIME COLUMBUS, OHIO 43218-3990		REVISION LEVEL D	SHEET 9



## Switch position

Test	Switch
t <sub>PLZ</sub>	Closed
t <sub>PZL</sub>	Closed
All other	Open

## NOTES:

- 1.  $R_L = 500\Omega$ .
- 2.  $C_L = 50$  pF; load capacitance includes jig and probe capacitance. 3.  $R_T = Termination$  resistance should be equal to  $Z_{OUT}$  of pulse generators.

FIGURE 4. Switching waveforms and test circuit – Continued.

STANDARD MICROCIRCUIT DRAWING	SIZE <b>A</b>		5962-87655
DLA LAND AND MARITIME COLUMBUS, OHIO 43218-3990		REVISION LEVEL D	SHEET 10

### 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.

TABLE II. Electrical test requirements.

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

<sup>\*</sup> 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 input capacitance. Test all applicable pins on five devices with zero failures.
- d. Subgroups 7 and 8 shall include verification of the truth table as specified on figure 2 herein.

STANDARD MICROCIRCUIT DRAWING	SIZE <b>A</b>		5962-87655
DLA LAND AND MARITIME COLUMBUS, OHIO 43218-3990		REVISION LEVEL D	SHEET <b>11</b>

### 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 contractor-prepared 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 Record of users. 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 <b>A</b>		5962-87655
	REVISION LEVEL	SHEET
	l D	l 12

### STANDARD MICROCIRCUIT DRAWING BULLETIN

DATE: 10-12-28

Approved sources of supply for SMD 5962-87655 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.dscc.dla.mil/Programs/Smcr/.

Standard microcircuit drawing PIN <u>1</u> /	Vendor CAGE number	Vendor similar PIN <u>2</u> /
5962-8765501RA	0C7V7	54FCT240DMQB
5962-8765501SA	0C7V7	54FCT240FMQB
5962-87655012A	0C7V7	54FCT240LMQB
5962-8765502RA	<u>3</u> /	IDT54FCT240ADB
5962-8765502SA	<u>3</u> /	IDT54FCT240AEB
5962-87655022A	<u>3</u> /	IDT54FCT240ALB

- 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.
- 3/ Not available from an approved source of supply.

Vendor CAGE number

and address 0C7V7

QP Semiconductor 2945 Oakmead Village Court Santa Clara, CA 95051

Vendor name

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