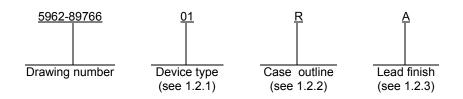
										ONS										
LTR	DESCRIPTION											DATE (YR-MO-DA)			DA)	APPROVED				
А	Update the boilerplate to current requirements as specified in MIL-PRF-38535. Editorial changes throughout. – jak								06-0	-05-01 Thomas M. He			. Hess							
В	Add footnote <u>5</u> / for test condition of total power supply current (I _{CC}) to table I. Update boilerplate paragraphs to the current MIL-PRF-38535 requirements.																			
REV																				
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SHEET REV				REV	/		B	В	В	В	В	В	В	В	B	B				
SHEET REV SHEET				REV			B 1	B 2	B 3	B 4	B 5	B 6	B 7	B 8	B 9	B 10				
SHEET REV SHEET REV STATUS				SHE	ET PAREI	D BY larcia B	1	2			5	6 EFEN	7 SE SI	8 JPPL	9 Y CE	10 NTEF			BUS	
SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A STA MICR (CUIT		SHE	ET PAREI M CKED	larcia B	1 . Keller	2 ner			5	6 EFEN	7 SE SI DLUM	8 JPPL BUS,	9	10 NTER D 432	218-3	8990	3US	
SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A STA MICR (NDAF	CUIT		SHE PRE	ET PAREI M CKED	larcia B BY onica L	1 . Keller	2 ner		4	5 DE	6 EFEN CC	7 SE SI DLUM http	8 JPPL BUS, p://ww	9 Y CE , OHIC /w.ds	10 NTER D 432 cc.dl	218-3 a.mil	3990	BUS	
SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A STA MICR (NDAF OCIRC AWIN	CUIT G		SHE PRE	ET PAREI M CKED M	larcia B BY onica L	1 . Keller . Poelki	2 ner		4 MIC	5 DE	6 EFEN CC	7 SE SI DLUM http	8 JPPL BUS, p://ww	9 Y CE , OHIC /w.ds	10 NTER D 432 cc.dl	218-3 a.mil	8 990 OS,		
SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A STA MICR (DR/ THIS DRAWI FOR L	NDAF OCIRC AWIN ING IS A JSE BY J	CUIT G VAILAE ALL	BLE	SHE PREI CHE	ET PAREI M CKED M ROVEI	larcia B BY onica L D BY Michael	1 . Keller . Poelki I A. Fry	2 ner ing e		4 MIC NO	5 DE CROC	6 EFEN: CC	7 SE SI DLUM http JIT, [ING (8 JPPL BUS, p://ww DIGIT	9 Y CE , OHIC , W.ds	10 NTER D 432 cc.dla FAST	218-3 a.mil CM	0S, NE D	BUS	R
SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A STA MICR (DR/ THIS DRAWI FOR L	NDAF OCIRC AWING ING IS A JSE BY JSE BY ARTMEN ENCIES (CUIT G VAILAE ALL TS DF THE		SHE PREI CHE	ET PAREI M CKED M ROVEI	larcia B BY onica L D BY Michael	1 . Keller . Poelki I A. Fry	2 ner ing e		4 MIC NO	5 DE ROC NINV TH TH	6 EFEN CC CIRCI ZIRCI	7 SE SI DLUM http JIT, [ING (E-STA	8 JPPL BUS, DIGIT DCT/	9 Y CE , OHK w.ds TAL, F AL BU DUTF	10 NTER D 432 cc.dla FAST JFFE PUTS	218-3 a.mil CM R/LI	0S, L		
SHEET REV SHEET REV STATUS OF SHEETS PMIC N/A STA MICR (DR/ THIS DRAWI FOR L DEPA AND AGE DEPARTME	NDAF OCIRC AWING ING IS A JSE BY JSE BY ARTMEN ENCIES (CUIT G VAILAE ALL TS DF THE DEFENS		SHE PRE CHE APPI	ET PAREI M CKED M ROVEI	BY onica L D BY Michael APPRC 89-C	1 . Keller . Poelki I A. Fry DVAL D 09-14	2 ner ing e		4 MIC NO WIT CO	5 DE NINV TH TH MPA	6 EFEN: CC ZIRCI ZERT IREE TIBLE CA	7 SE SI DLUM http JIT, [ING (E-STA	8 JPPL BUS, o://ww DIGIT DCTA ATE (PUTS	9 Y CE , OHK w.ds TAL, F AL BU DUTF	10 NTER D 432 cc.dla FAST JFFE PUTS NOLI	218-3 a.mil CM R/LII , TTI	0S, L	RIVE	

1. SCOPE

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:



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

Device type	Generic number	Circuit function
01	54FCT541	Noninverting octal buffer/line driver with three-state outputs, TTL compatible inputs
02	54FCT541A	Noninverting octal buffer/line driver with three-state outputs, 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	Dutline letter Descriptive designator		Package style		
R	GDIP1-T20 or CDIP2-T20	20	Dual-in-line		
2	GDFP2-F20 or CDFP3-F20 CQCC1-N20	20 20	Flat pack 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 (V _{CC})	0.5 V dc to +7.0 V dc
Input voltage range (V _{IN})	$0.5 \text{ V} \text{ dc to } \text{V}_{\text{CC}} + 0.5 \text{ V} \text{ dc}$
Output voltage range (Vout)	$0.5 \text{ V} \text{ dc to } \text{V}_{CC} + 0.5 \text{ V} \text{ dc}$
DC input diode current (IIK)	
DC output diode current (I _{OK})	
DC output current (I _{OUT})	
Maximum power dissipation (P _D) 2/	. 500 mW
Storage temperature range (T _{STG})	65°C to +150°C
Lead temperature (soldering, 10 seconds)	
Thermal resistance, junction-to-case (θ _{JC})	
Junction temperature (T _J)	

1.4 Recommended operating conditions.

Supply voltage range (V _{CC})	+4.5 V dc to +5.5 V dc
Maximum low level input voltage (VIL)	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

1/ All voltages are referenced to ground.

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

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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	-	Tes	t Met	hod S	Star	ndard	Mic	roc	ircuits.	
									-	

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

DEPARTMENT OF DEFENSE HANDBOOKS

MIL-HDBK-103 - List of Standard Microcircuit Drawings.

MIL-HDBK-780 - Standard Microcircuit Drawings.

(Copies of these documents are available online at https://assist.daps.dla.mil/quicksearch/ or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.)

2.2 <u>Order of precedence</u>. In the event of a conflict between the text of this drawing and the references cited herein, the text of this drawing takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3. REQUIREMENTS

3.1 <u>Item requirements</u>. The individual item requirements shall be in accordance with MIL-PRF-38535, appendix A for non-JAN class level B devices and as specified herein. Product built to this drawing that is produced by a Qualified Manufacturer Listing (QML) certified and qualified manufacturer or a manufacturer who has been granted transitional certification to MIL-PRF-38535 may be processed as QML product in accordance with the manufacturers approved program plan and qualifying activity approval in accordance with MIL-PRF-38535. This QML flow as documented in the Quality Management (QM) plan may make modifications to the requirements herein. These modifications shall not affect form, fit, or function of the device. These modifications shall not affect the PIN as described herein. A "Q" or "QML" certification mark in accordance with MIL-PRF-38535 is required to identify when the QML flow option is used.

3.2 <u>Design, construction, and physical dimensions</u>. The design, construction, and physical dimensions shall be as specified in MIL-PRF-38535, appendix A and herein.

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

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

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

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

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

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

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3.4 <u>Electrical test requirements</u>. The electrical test requirements shall be the subgroups specified in table II. The electrical tests for each subgroup are described in table I.

3.5 <u>Marking</u>. Marking shall be in accordance with MIL-PRF-38535, appendix A. The part shall be marked with the PIN listed in 1.2 herein. In addition, the manufacturer's PIN may also be marked. For packages where marking of the entire SMD PIN number is not feasible due to space limitations, the manufacturer has the option of not marking the "5962-" on the device.

3.5.1 <u>Certification/compliance mark</u>. A compliance indicator "C" shall be marked on all non-JAN devices built in compliance to MIL-PRF-38535, appendix A. The compliance indicator "C" shall be replaced with a "Q" or "QML" certification mark in accordance with MIL-PRF-38535 to identify when the QML flow option is used.

3.6 <u>Certificate of compliance</u>. A certificate of compliance shall be required from a manufacturer in order to be listed as an approved source of supply in MIL-HDBK-103 (see 6.6 herein). The certificate of compliance submitted to 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.

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Test	Symbol	Condit	ions <u>1</u> /	V _{CC}	Device	Group A	Lir	nits	Unit
	$-55^{\circ}C \le T_C \le +125^{\circ}C$ $V_{CC} = 5.0 \text{ V dc } \pm10\%$ unless otherwise specified			type	subgroups	Min	Max		
High level output voltage	V _{OH}	V _{IL} = 0.8 V	I _{OH} = -300 μA	4.5 V	All	1, 2, 3	4.3		V
		V _{IH} = 2.0 V	I _{он} = -12 mA	4.5 V			2.4		
Low level output voltage	V _{OL}	V _{IL} = 0.8 V	I _{OL} = +300 μA	4.5 V	All	1, 2, 3		0.2	V
		V _{IH} = 2.0 V	I _{OL} = +48 mA	4.5 V				0.55	
Input clamp voltage	VIK	I _{IN} = -18 mA		4.5 V	All	1, 2, 3		-1.2	V
High level input current	I _{IH}	V _{IN} = 5.5 V		5.5 V	All	1, 2, 3		5.0	μA
Low level input current	IIL	V _{IN} = GND		5.5 V	All	1, 2, 3		-5.0	μA
High impedance output	I _{OZH}	V _{IN} = 5.5 V		5.5 V	All	1, 2, 3		10.0	μA
current	I _{OZL}	V _{IN} = GND		5.5 V	All	1, 2, 3		-10.0	μA
Short circuit output current	l _{os} <u>1</u> /	V _{OUT} = GND	5.5 V	All	1, 2, 3	-60		mA	
Quiescent power supply current (CMOS inputs)	I _{CCQ}	$\label{eq:VIN} \begin{array}{l} V_{IN} \leq 0.2 \ V \ or \ V_{IN} \\ f_{in} \ = 0 \ MHz \end{array}$	5.5 V	All	1, 2, 3		1.5	mA	
Quiescent power supply current (TTL inputs)	ΔI _{CC} <u>2</u> /	V _{IN} = 3.4 V		5.5 V	All	1, 2, 3		2.0	mA
Dynamic power supply current	I _{CCD}	$\label{eq:oeal} \hline \hline{\textbf{OEA}} = \overline{\textbf{OEB}} = \textbf{GN} \\ \hline \textbf{One bit toggling,} \\ V_{\text{IN}} \leq 0.2 \text{ V or } V_{\text{IN}} \\ \hline \textbf{Outputs open} \\ \hline \end{array}$	5.5 V	All	<u>3</u> /		0.4	mA/ MHz	
Total power supply current	I _{CC} <u>4</u> / <u>5</u> /	$\label{eq:VIN} \begin{array}{l} V_{\text{IN}} \leq 0.2 \ V \ \text{or} \ V_{\text{IN}} \\ \hline \overline{\text{OEA}} = \overline{\text{OEB}} = G N \\ \hline \text{One bit toggling,} \\ \hline \text{Outputs open, } f_i \end{array}$	ID 50% duty cycle	5.5 V	All	1, 2, 3		5.5	mA
		$\label{eq:VIN} \begin{array}{l} V_{\text{IN}} = \text{GND} \text{ or } V_{\text{IN}} \\ \hline 0 \text{EA} = \overline{0 \text{EB}} = \text{GN} \\ \text{One bit toggling,} \\ \text{Outputs open, } f_i \end{array}$	ID 50% duty cycle	5.5 V	All	1, 2, 3		6.0	mA
Input capacitance	C _{IN}	See 4.3.1c			All	4		10	pF
Output capacitance	C _{OUT}	See 4.3.1c			All	4		12	pF
Functional tests		See 4.3.1d		4.5 V	All	7, 8			
Propagation delay time,	t _{PHL} ,	C _L = 50 pF		4.5 V	01	9, 10, 11	2.0	9.0	ns
Dn to On	t _{РLН} <u>6</u> /	$R_L = 500\Omega$ See figure 4			02		2.0	5.1	
Propagation delay time,	t _{PZH} ,	-		4.5 V	01	9, 10, 11	2.0	12.5	ns
output enable, $\overline{\text{OEA}}$ or $\overline{\text{OEB}}$ to On	t _{PZL} <u>6</u> /				02		2.0	6.5	
Propagation delay time,	t _{PHZ} ,			4.5 V	01	9, 10, 11	2.0	12.5	ns
output disable, t_{PLZ} \overline{OEA} or \overline{OEB} to On $\underline{6}/$				02		2.0	5.9		

See footnotes on next sheet.

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TABLE I. Electrical performance characteristics - Continued.

- 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_{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.
- $\begin{array}{ll} \underline{4}' & |_{CC} = |_{CCQ} + (\Delta I_{CC} \times D_H \times N_T) + (I_{CCD} \times f_I \times N_I) \\ & \text{Where:} & D_H = \text{Duty cycle for TTL inputs high.} \\ & N_T = \text{Number of TTL inputs at } D_H. \\ & f_I = \text{Input frequency in MHz.} \\ & N_I = \text{Number of inputs at } f_I. \end{array}$
- 5/ For I_{CC} 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.

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 19 20	OEA D0 D1 D2 D3 D4 D5 D6 D7 GND O7 O6 O5 O4 O3 O2 O1 O0 OEB Vcc

FIGURE 1. Terminal connections.

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Device types 01 and 02			
	Inputs		Outputs
OEA	OEB	Dn	On
L	L	L	L
L	L	Н	Н
Н	Х	Х	Z
Х	Н	Х	Z

L = Low voltage level

H = High voltage level

X = Don't care

Z = High impedance

FIGURE 2. Truth table.

DEVICE TYPES 01 AND 02

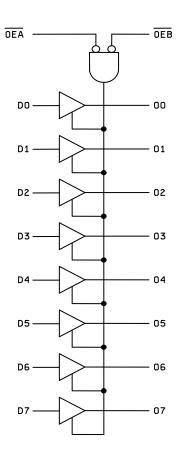
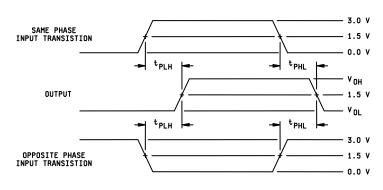
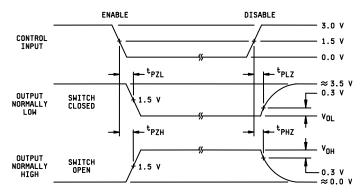


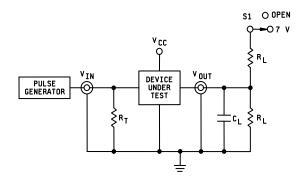
FIGURE 3. Logic diagram.

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ENABLE AND DISABLE TIMES SEE NOTE 5





NOTES:

- 1. When measuring t_{PLH} , t_{PHL} t_{PZH} and t_{PHZ} : S1 = Open. When measuring t_{PLZ} and t_{PZL} : S1 = Closed.
- 2. $R_L = 500\Omega$ or equivalent.
- 3. $R_T = 50\Omega$ or equivalent, terminal resistance which should be equal to Z_{OUT} of the pulse generator.
- 4. C_L = 50 pF or equivalent (includes test jig and probe capacitance).
- 5. Diagram shown for input control enable-low and input control disable-high.
- 6. Pulse generator for all pulses: $t_r \le 2.5$ ns; $t_f \le 2.5$ ns.

FIGURE 4. Switching waveforms and test circuit.			
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4. VERIFICATION

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

4.2 <u>Screening</u>. Screening shall be in accordance with method 5004 of MIL-STD-883, and shall be conducted on all devices prior to quality conformance inspection. The following additional criteria shall apply:

- a. Burn-in test, method 1015 of MIL-STD-883.
 - (1) Test condition A, B, C, or D. The test circuit shall be maintained by the manufacturer under document revision level control and shall be made available to the preparing or acquiring activity upon request. The test circuit shall specify the inputs, outputs, biases, and power dissipation, as applicable, in accordance with the intent specified in method 1015 of MIL-STD-883.
 - (2) $T_A = +125^{\circ}C$, minimum.
- b. Interim and final electrical test parameters shall be as specified in table II herein, except interim electrical parameter tests prior to burn-in are optional at the discretion of the manufacturer.

MIL-STD-883 test requirements	Subgroups (in accordance with MIL-STD-883, method 5005, table I)
Interim electrical parameters (method 5004)	
Final electrical test parameters (method 5004)	1*, 2, 3, 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_{IN} measurement) shall be measured only for the initial test and after process or design changes which may affect input capacitance.
- d. Subgroups 7 and 8 shall include verification of the truth table.

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4.3.2 Groups C and D inspections.

- a. End-point electrical parameters shall be as specified in table II herein.
- b. Steady-state life test conditions, method 1005 of MIL-STD-883.
 - (1) Test condition A, B, C, or D. The test circuit shall be maintained by the manufacturer under document revision level control and shall be made available to the preparing or acquiring activity upon request. The test circuit shall specify the inputs, outputs, biases, and power dissipation, as applicable, in accordance with the intent specified in method 1005 of MIL-STD-883.
 - (2) $T_A = +125^{\circ}C$, minimum.
 - (3) Test duration: 1,000 hours, except as permitted by method 1005 of MIL-STD-883.

5. PACKAGING

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

6. NOTES

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

6.2 <u>Replaceability</u>. Microcircuits covered by this drawing will replace the same generic device covered by a contractorprepared specification or drawing.

6.3 <u>Configuration control of SMD's</u>. All proposed changes to existing SMD's will be coordinated with the users of record for the individual documents. This coordination will be accomplished using DD Form 1692, Engineering Change Proposal.

6.4 <u>Record of users</u>. Military and industrial users should inform 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.

6.5 <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.

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STANDARD MICROCIRCUIT DRAWING BULLETIN

DATE: 10-01-19

Approved sources of supply for SMD 5962-89766 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 microcircuit drawing PIN <u>1</u> /	Vendor CAGE number	Vendor similar PIN <u>2</u> /
5962-8976601RA	0C7V7	IDT54FCT541DB
5962-8976601SA	0C7V7	IDT54FCT541EB
5962-89766012A	0C7V7	IDT54FCT541LB
5962-8976602RA	0C7V7	IDT54FCT541ADB
5962-8976602SA	0C7V7	IDT54FCT541AEB
5962-89766022A	0C7V7	IDT54FCT541ALB

- 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.

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

0C7V7

QP Semiconductor 2945 Oakmead Village Court Santa Clara, CA 95051

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

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