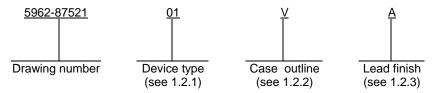
В Ирс	chnical changes date boilerplate date boilerplate	to MIL-PRF	-38535 re	hanges	s throug	- LTG	- mbk			DA		R-MO-I	DA)	Mich		OVED	
В Ирс	date boilerplate	to MIL-PRF	-38535 re	equiren	nents	- LTG	- mbk				91-0	1-29		Mich	ael M.	Frve	
											– mbk 91-01-29			Michael M. Frye			
С Ирс	date boilerplate	to MIL-PRF	-38535 re	equiren	nents	- LTG		01-07-17				Thomas M. Hess					
											08-0	)4-16		Thor	mas M.	Hess	
REV SHEET																	
REV																	
SHEET																	
REV STATUS		REV		С	С	С	С	С	С	С	С	С	С	С	С		
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PMIC N/A		PREPAR	ED BY	<u> </u>			-	<u> </u>	<u> </u>	<u> </u>			1	<u> </u>		<u> </u>	
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#### 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 54C922 16-key keyboard encoder with three-state output

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
V	GDIP1-T18 or CDIP2-T18	18	Dual-in-line

- 1.2.3 Lead finish. The lead finish is as specified in MIL-PRF-38535, appendix A.
- 1.3 Absolute maximum ratings. 1/

1.4 Recommended operating conditions.

1/ Stresses above the absolute maximum rating may cause permanent damage to the device. Extended operation at the maximum levels may degrade performance and affect reliability.

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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 - 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 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 outline</u>. The case outline shall be in accordance with 1.2.2 herein.
  - 3.2.2 Terminal connections. 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 in 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.
- 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.

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- 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			Test conditions $-55^{\circ}\text{C} \leq \text{T}_{\text{C}} \leq +125^{\circ}\text{C}$			Limits		Unit	
			unless otherw			subgroups	Min	Max	
High level output voltage	CMOS inputs	V <sub>OH</sub>	$I_{O} = -10 \mu A$	$V_{CC} = 5$ .	.0 V	1, 2, 3	4.5		V
				V <sub>CC</sub> = 1	0 V		9.0		
	TTL inputs			V <sub>CC</sub> = 15	5.0 V		13.5		
			Ι <sub>O</sub> = -360 μΑ	V <sub>CC</sub> = 4.	.5 V		2.4		
Low level output voltage	CMOS inputs	V <sub>OL</sub>	I <sub>O</sub> = +10 μA	V <sub>CC</sub> = 5.	.0 V	1, 2, 3		0.5	V
				V <sub>CC</sub> = 10	).0 V			1.0	
	TTL inputs			V <sub>CC</sub> = 15	5.0 V			1.5	
			Ι <sub>O</sub> = +360 μΑ	V <sub>CC</sub> = 4.	.5 V			0.4	
High level input voltage	CMOS	V <sub>IH</sub>		V <sub>CC</sub> = 5.	.0 V	1, 2, 3	3.5		V
(except OSC and KBM	inputs			V <sub>CC</sub> = 10	).0 V		8.0		
inputs)	TTL			V <sub>CC</sub> = 15	5.0 V		12.5		
	inputs			V <sub>CC</sub> = 4.	.5 V		3.0		
Low level input voltage	CMOS inputs	$V_{IL}$		V <sub>CC</sub> = 5.		1, 2, 3		1.5	V
(except OSC and KBM inputs)	,			V <sub>CC</sub> = 10	).0 V			2.0	
• ,	TTL inputs			V <sub>CC</sub> = 15	5.0 V			2.5	
				V <sub>CC</sub> = 4.	.5 V			0.8	_
Input capacitance 1- 4 and pins 7-		C <sub>IN1</sub>	See 4.3.1c			4		10.0	pF
Input capacitance and 6	e, pins 5	C <sub>IN2</sub>	See 4.3.1c			4		12.5	pF
Supply current O		I <sub>CC</sub>	OSC = 0.0 V	$V_{CC} = 5.0$		1, 2, 3		1.1	mA
0 V, (one Y low)				$V_{CC} = 10.$ $V_{CC} = 15.$				1.9	-
<b>_</b>				$V_{CC} = 15.$ $V_{CC} = 15.$				2.6	
Three-state outpo leakage current		I <sub>OZ</sub>	V <sub>OUT</sub> = 0.0 V			1, 2, 3	-3.0		μΑ
See footnotes a	and of 4	able	V <sub>OUT</sub> = 15.0 V	V <sub>CC</sub> = 15.	.υ ν			3.0	<u> </u>
See loothotes a				SIZE			<del></del>		
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DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43218-3990					REVIS	ION LEVEL C		SHEET 5	_

Test	Symbol	Test co -55°C ≤ T <sub>0</sub>	Group A subgroups	Lin	nits	Unit	
			wise specified	oubgioupo	Min	Max	
Positive-going threshold voltage at OSC and	$V_{T+}$	I <sub>IN</sub> = 0.7 mA	$V_{CC} = 5.0 \text{ V}$	1, 2, 3	3.0	4.3	V
KBM inputs		I <sub>IN</sub> = 1.4 mA	V <sub>CC</sub> = 10.0 V		6.0	8.6	
		I <sub>IN</sub> = 2.1 mA	V <sub>CC</sub> = 15.0 V		9.0	12.9	
Negative-going threshold	V <sub>T</sub> -	I <sub>IN</sub> = 0.7 mA	V <sub>CC</sub> = 5.0 V	1, 2, 3	0.7	2.0	V
voltage at 0sc and KBM inputs		I <sub>IN</sub> = 1.4 mA	$V_{CC} = 10.0 \text{ V}$		1.4	4.0	
•		I <sub>IN</sub> = 2.1 mA	$V_{CC} = 15.0 \text{ V}$		2.1	6.0	
Row pull-up current at Y1, Y2, Y3, Y4 and Y5	I <sub>RP</sub>	V <sub>IN</sub> = 0.5 V	V <sub>cc</sub> = 5.0 V	1, 2, 3		-5.0	μА
inputs		V <sub>IN</sub> = 1.0 V	V <sub>CC</sub> = 10.0 V			-25.0	
		V <sub>IN</sub> = 1.5 V	V <sub>CC</sub> = 15.0 V			-55.0	
Column ON resistance at X1, X2, X3, and X4	R <sub>ON</sub>	V <sub>IN</sub> = 0.5 V	V <sub>cc</sub> = 5.0 V	1, 2, 3		1400	Ω
inputs		V <sub>IN</sub> = 1.0 V	V <sub>CC</sub> = 10.0 V			700	
		V <sub>IN</sub> = 1.5 V	V <sub>CC</sub> = 15.0 V			500	
ogical "1" input current at output enable	I <sub>IH</sub>	V <sub>IN</sub> = 15.0 V	V <sub>CC</sub> = 15.0 V	1, 2, 3		1.0	μA
Logical "0" input current at output enable	I <sub>IL</sub>	V <sub>IN</sub> = 0.0 V	V <sub>CC</sub> = 15.0 V	1, 2, 3		-1.0	μA
Output source current (P-channel)	I <sub>SOURCE</sub>	V <sub>OUT</sub> = 0.0 V	V <sub>CC</sub> = 5.0 V	1	-1.75		m/
			V <sub>CC</sub> = 10.0 V		-8.0		
Output sink current (N-channel)	I <sub>SINK</sub>	$V_{OUT} = V_{CC} = 5.0 \text{ V}$		1	1.75		m/
		V <sub>OUT</sub> = V <sub>CC</sub> = 10.0 V			8.0		
Functional tests		See 4.3.1d		7, 8			
Propagation delay time, from logical "1" or	t <sub>1Н,</sub>	$C_L = 50 \text{ pF}$ $R_L = 10 \text{ k}\Omega$	V <sub>CC</sub> = 5.0 V	9	1.0	200.0	ns
logical "0" into high impedance state	vOH	See figure 4	V <sub>CC</sub> = 10.0 V <u>1</u> /			190.0	
			V <sub>CC</sub> = 15.0 V <u>1</u> /			110.0	
			V <sub>CC</sub> = 5.0 V <u>1</u> /	10		345.0	
			V <sub>CC</sub> = 10.0 V <u>1</u> /			265.0	
			V <sub>CC</sub> = 5.0 V <u>1</u> /	11		195.0	
			V <sub>CC</sub> = 10.0 V <u>1</u> /			150.0	

See footnotes at end of table.

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TABLE I. <u>Electrical performance characteristics</u> - Continued.

Test	Symbol	Test condit	Group A	Lin	nits	Unit	
		-55°C ≤ T <sub>C</sub> ≤ + unless otherwise		subgroups	Min	Max	
Propagation delay time, from high impedance	t <sub>H0</sub> ,	C <sub>L</sub> = 50 pF	V <sub>CC</sub> = 5.0 V	9	1.0	250.0	ns
state to a logical "1" or logical "0"	t <sub>H1</sub>	$t_{H1}$ $R_L = 10 \text{ k}\Omega$ See figure 4	V <sub>CC</sub> = 10.0 V <u>1</u> /			125.0	
			V <sub>CC</sub> = 15.0 V <u>1</u> /			90.0	
			V <sub>CC</sub> = 5.0 V <u>1</u> /	10		350.0	
			V <sub>CC</sub> = 10.0 V <u>1</u> /			175.0	
			V <sub>CC</sub> = 5.0 V <u>1</u> /	11		200.0	
			V <sub>CC</sub> = 10.0 V <u>1</u> /			100.0	
Propagation delay time, to logical "1" or logical	F ,	· ·	V <sub>CC</sub> = 5.0 V	9	10.0	150.0	ns
"0" from D.A.	t <sub>pd1</sub>	Gee ligure 4	V <sub>CC</sub> = 10.0 V <u>1</u> /			80.0	
			V <sub>CC</sub> = 15.0 V <u>1</u> /			60.0	
			V <sub>CC</sub> = 5.0 V <u>1</u> /	10		210.0	
			V <sub>CC</sub> = 10.0 V <u>1</u> /			110.0	
			V <sub>CC</sub> = 5.0 V <u>1</u> /	11		120.0	
			V <sub>CC</sub> = 10.0 V <u>1</u> /			65.0	

 $\underline{1}/\,\,$  Propagation delay time, if not tested, shall be guaranteed to the specified limits.

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Device type	01
Case outline	V
Terminal	Terminal symbol
number	
1	Row Y1
2	Row Y2
3	Row Y3
4	Row Y4
5	Oscillator (OSC)
6	Keybounce mask (KBM)
7	Column X4
8	Column X3
9	GND
10	Column X2
11	Column X1
12	Data available
13	Output enable
14	Data out D
15	Data out C
16	Data out B
17	Data out A
18	V <sub>CC</sub>
	• 00

FIGURE 1. Terminal connections.

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Switc		0	1	2	3	4	5	6	7	8	9	10	11
Position	on	Y1,X1	Y1,X2	Y1,X3	Y1,X4	Y2,X1	Y2,X2	Y2,X3	Y2,X4	Y3,X1	Y3,X2	Y3,X3	Y3,X4
	Α	0	1	0	1	0	1	0	1	0	1	0	1
Data	В	0	0	1	1	0	0	1	1	0	0	1	1
out	С	0	0	0	0	1	1	1	1	0	0	0	0
	D	0	0	0	0	0	0	0	0	1	1	1	1

Switch		12	13	14	15
Position		Y4,X1	Y4,X2	Y4,X3	Y4,X4
	Α	0	1	0	1
Data	В	0	0	1	1
out	С	1	1	1	1
	D	1	1	1	1

FIGURE 2. Truth table.

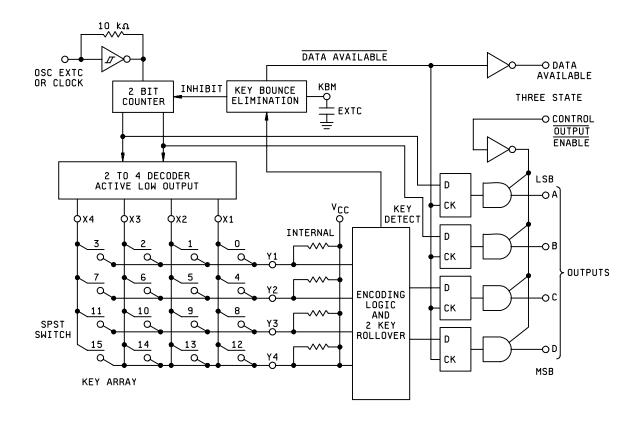
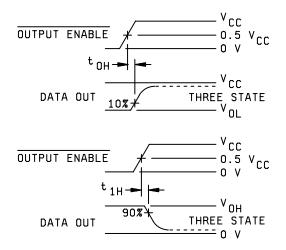
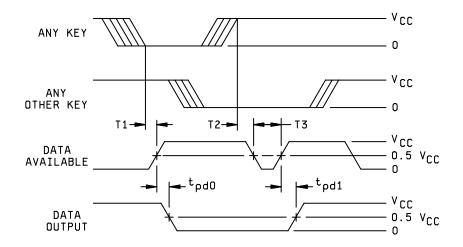


FIGURE 3. Logic diagram.

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NOTES:

T1 = T2 = RC T3 = 0.7 RC

Where R = 10k and C is external at KBM input.

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.

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

<sup>1/</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. Capacitance shall be measured between the designated terminal and GND at a frequency of 1 MHz. Test all applicable pins on five devices with zero failures.
    - d. Subgroups 7 and 8 shall include verification of the truth table.

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<sup>2/</sup> Subgroups 10 and 11, if not tested, shall be guaranteed to the specified limits in table I.

# 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 <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.
- 6.6 <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.

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COLUMBUS OHIO 43218-3990				

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### STANDARD MICROCIRCUIT DRAWING BULLETIN

DATE: 08-04-16

Approved sources of supply for SMD 5962-87521 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> /
5962-8752101VA	3V146	MM54C922J/883

- 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<br/>numberVendor name<br/>and address

3V146 Rochester Electronics 16 Malcolm Hoyt Drive Newburyport, MA 01950

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