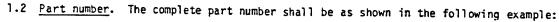
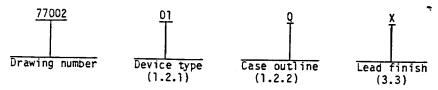
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1.2.1 Device type. The device type shall identify the circuit function as follows:

Device type	Generic number	Circuit
01	A0808	8 bit fixed instruction microprocessor

1.2.2 <u>Case outline</u>. The case outline shall be as shown in figure 2.

Outline letter

Q (40 Pin Ceramic dual-in-line pack)

1.3 Absolute maximum ratings.

V _{CC} Supply Voltage	WITH _	
V_{DD} Supply Voltage	RESPECT /	
V _{SS} Supply Voltage	то {	-0.3 to +20 Vdc
Input and Output Voltage	ر ۱۹۳	
Storage Temperature Range Power Dissipation Lead Temperature (Soldering 5 Maximum Junction Temperature Thermal Resistance Junction to	-65 to +150°C 1.7 W 270°C T _J = (150°C) (\text{\theta}_{J-C} = 50°C/W)	
		J-L

1.4 Recommended Operating Conditions

Supply Voltage	V _{BB} V _{CC} V _{DD}	-4.5 V to -5.5 V +4.5 V to +5.5 V +10.8 V to +13.2 V
	Output voltage	0 Y 3.0 Y 8.5 V 0.8 V 3.7 V 0.45 V 0.5 MHz to 2.083 MHz -55° to + 125°C

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2. APPLICABLE DOCUMENTS

2.1 The following documents, of the issue in effect on date of invitation for bids or request for proposal, 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 specifications, standards, drawings, and publications required by suppliers in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

- 3. REQUIREMENTS
- 3.1 Detail specifications. The individual item requirements shall be in accordance with MIL-M-38510, and as specified herein.
- 3.2 <u>Design, construction, and physical dimensions</u>. The design, construction, and physical dimensions shall be as specified in MIL-M-38510 and herein.
- 3.2.1 <u>Design documentation</u>. The design documentation shall be in accordance with MIL-M-38510 and, unless otherwise specified in the contract or purchase order, shall be retained by the manufacturer but be available for review by the procuring activity or contractor upon request.
 - 3.2.2 <u>Terminal connections</u>. The terminal connections shall be as specified on figure 1.
 - 3.2.3 Case outline. The case outline shall be in accordance with 1.2.2.
 - 3.3 Lead material and finish. Lead material and finish shall be in accordance with MIL-M-38510.
- 3.4 Electrical performance characteristics. The electrical performance characteristics are as specified in table I and apply over the full recommended ambient operating temperature range, unless otherwise specified.
- 3.5 Marking. Marking shall be in accordance with MIL-M-38510 except the part number shall be in accordance with 1.2 herein. The M38510/XXX part number, and the "JAN" or "J" mark shall not be used.
- 3.6 <u>Product assurance requirements</u>. Microcircuits furnished under this drawing shall have been subjected to, and passed all the requirements, tests, and inspections detailed herein including screening, and quality conformance inspection requirements.

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M	Characterist		Device	Lir	nits	
Test	Symbol	Conditions	type	Min	Max	Units
High Level Output Voltage All Outputs	Vон	V_{DD} = +10.8 V I_{OH} = -150 μ A V_{BB} = -5.5 V, V_{CC} = +4.5	v 01	3.7		Volts
Low Level Output Voltage All Outputs	V _{OL}	V_{DD} = +10.8 V I_{OL} = 1.9 mA V_{BB} = -5.5 V, V_{CC} = 4.5 V	01		0.45	Volts
High Level High Impedance Output Current D _O -D ₇ , A _O -A ₁₅	I _{ZH} 1	V _O = +5.5 V T _A = +125°C, +25°C V _{BB} = -5.5 V, V _{CC} = +5.5 V V _{DD} = +10.8 V	01		10	μ Α
Low Level High Impedance Output Current D _O -D ₇ , A _O -A ₁₅	I _{ZL} 1	V _O = 0.45 V T _A = +125°C, +25°C V _{BB} = -4.5 V, V _{CC} = +5.5 V V _{DD} = 13.2 V	01	-10	-100	μA
High Level Input current; For Clock Inputs, Reset, Hold, Int, and Ready	I IHI	Logic Clock V _{IN} = 5.5 V 13.2 V V _{BB} = -5.5 V -5.5 V V _{CC} = +5.5 V +4.5 V V _{DD} = 10.8 V 13.2 V T _A = +125°C, +25°C	01		10	μ Α
Low Level Input Current: For Clock Inputs, Reset, Hold, Int, and Ready	IILI	V _{IN} = 0 V V _{BB} = -4.5 V V _{DD} = +13.2 V T _A = +125°C, +25°C	01		-10	μΑ
High Level Input Current; Data Bus in input mode ^D O ^{- D} 7	I _{IH2}	V _{IN} = 3.7 V V _{BB} = -4.5 V, V _{CC} = +5.5 V V _{DD} = +13.2 V T _A = +125°C, +25°C	01	4	-1.2	mA
Low Level Input Current; Data Bus in input mode 00 - D7	I _{IL2}	V _{IN} = 0 V V _{BB} = -4.5V, V _{CC} = +5.5 V V _{DD} = +13.2 V T _A = +125°C, +25°C	01	-10	-100	μΑ
EFENSE ELECTRONICS SUPPLY DAYTON, OHIO	CENTER	SIZE CODE IDENT. NO. 14933	DWG NO.	• 77002		

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1	Test	Q		<u> </u>	****	Devic	e	Lin	nits	
l	rest	Symbol		Cond	itions	type		Min	Max	Units
	High Level Input Current Data Bus in Input Mode D ₀ D ₇	IIH3	$V_{BB} = -4.5$ $V_{DD} = 13.2$ $V_{IN} = 5.0$ $T_{A} = 125^{\circ}$	2 V V,	V _{CC} = +5.5 V	01		-10	-100	MA
	Input High Threshold: All Inputs Except Clock	Y _{ІН}	V _{BB} = -4.5 V _{CC} = +4.5 V _{DD} = 10.8	5γ,	5.5 Y	01		3.0		Volts
	Input Low Threshold; All Inputs Including Clocks	YILI				01			0.8	Volts
	Input High Threshold; Clock Inputs	V _{IH2}			·	01		8.5		Volts
	Negative 5 Y Power Supply Current •	I _{BB}	f = 2.0 MH V _{BB} = -5.5 V _{CC} = +5.5 V _{DD} = +13.	5 Y		01		.01	1.0	πA
1	Positive 5 V Power Supply Current	^I cc			•	01		jo	100	mÀ
	Positive 12 V Power Supply Current	I _{DD}				01.		10	80	mA
	Input Capacitance	c _i	F = 1 MHz From Input other pins	pins	T _A = 25°C to all	01		17	25	pF
	Input Capacitance Ready, Hold, int, D _O -D ₇ , Reset	ci			•	01		6	10	pF
	Output Capacitance A _O -A ₁₅ , Sync, DBIN, WAIT, WR, HLDA, INTE	c _o				01		10	20	pF
	Clock Pulse Width Ø1	[‡] wн1	V _{BB} = -5V V _{CC} = +5V V _{DD} = +12	<u>+</u> 10%	6	01		60 -		ns
	Clock Pulse Width Ø2	t _{wH2}				01		220		ns
	Delay Ø1 to Ø2 Leading Edges	t _{SLH7}				01		80		ns
	Delay Ø1 to Ø2	T _{SLH6}				01	- 1	0		ns
	Delay 02 to 01	t _{SHL8}				01		70		ns
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TA	BLE I. E	<u>lectrical Characteristics</u> - Con		•	**	·	
Test	Symbol	Conditions	Device type	Lin Min	nits Max	Units	
Ready Setup Time to Ø2	· t _{SLH1}	V _{BB} = -5 V <u>+</u> 10% V _{CC} = +5 V <u>+</u> 10% V _{DD} = +12 V <u>+</u> 10%	01	120		ns	
	t _{SHL1}	–	01	120		ns	
Data Setup Time to Clock Øl	t _{SLH2}	·	01	30		ns	
	t _{SHL2}		01	30		ns	į
Data Setup Time to Clock Ø2	t _{SLH3}		01	150		ns	
	t _{SHL3}		01	150		ns	
INT Input Setup Time During	t _{SLH4}		01	120		ns	
Ø1 or Ø2. INT Not Yalid	t _{SHL4}	•	01	120		ns	
Hold Input Setup Time to Ø2	t _{SHL5}		01	140		ns	G
	t _{SLH5}		01	140		ns	
Data Hold Time From Ø2	t _{HHL2}		01	50		ns	
	t _{HLH2}		01	50	٠	ns	
INT Input Hold Time During Øl or Ø2, INT Valid	t _{HHL1}		01	0		ns	1
prorps, in tarru	t _{HLH1}		01	0		ns	
Clock Period	tcY		01	0.32	2.0	4S	
Data and Status Output Delay from Ø2: D ₀ -D ₇ Data and Status Valid	t _{PLH1}	C = 50 pF all outputs T _A = +25°C	01		220	ns	
	t _{PHL1}		01		220	ns	.
	t _{pZH1}		01		220	ns	1.
	t _{pZL1}		01		220	ns	
Delay for Data Bus to Enter Input Mode. D _O -D ₇	t _{PHZ1}	$R_L = 2.2K\Omega$ $R = 25K\Omega$ C = 50 pF all outputs $T_A = +25^{\circ}C$	01		140	ns	
•	^t PLZ1		01		140	ns	
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M		0	Device	Lin	nits	Units
Test	Symbol	Conditions	type	Min	Max	Units
Delay to Float During Hold From Ø2 A _O -A _{l5} : D _O -D ₇	t _{PLZ2}	$R_L = 2.2K\Omega$ $R = 25K\Omega$ C = 50 pF all outputs $T_A = +25^{\circ}C$	01		120	ns
	t _{PHZ2}	1A = 123 C	10		120	ns
DBIN Output Delay From Ø2	t _{PLH3}		01	25	140	ns
	t _{PHL3}		01	25	140	ns
Delay to Float During Hold	t _{PHZ3}		01	<u>1</u> /		
From HLDA A ₀ -A ₁₅ , D ₀ -D ₇	t _{PLZ3}		01	1/		
SYNC, WR, WAIT, HLDA Dutput Delay	t _{PLH4}		01		120	ns
output belay	t _{PHL4}	•	01		120	ns - >
Address and Data Delay to Float During Hold From	t _{PHZ4}		01	<u>2</u> /		ns
HR, A ₀ -A ₁₅ , D ₀ -D ₇	t _{PLZ4}			2/		ns
INTE Output Delay from Ø2	t _{PHL5}		01		200	ns
	t _{PLH5}		01		200	ns
Address Valid after DBIN During HLDA	t _{PHZ5}		01	-20		ns
or my mean	t _{PLZ5}		01	-20		ns
Address Output Delay from	t _{PLH6}	•	01		200	ns
32 Address Valid A ₀ -A ₁₅	t _{PHL6}		01		200	ns
Output Data Stable Prior	t _{PLH7}		01	<u>3</u> /		ns
to WR 1 D ₀ -D ₇	t _{PHL7}	·	01	<u>3</u> /		ns
Address Stable Prior to WR	t _{PLH8}		01	4/ .		ns
¹ 0 ⁻⁴ 15	t _{PHL8}	·	01	4/		ns
Output Data, Address Stable rom WR (Not HLDA).	t _{PHL9}		01	<u>5</u> /		ns
00 ^{-D} 7, A0 ^{-A} 15	t _{PLH9}		01	<u>5</u> /		ns
/ See notes on page 8					<u> </u>	
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Table Notes:

The following equations determine the minimum limits for the noted Table I delay measurements.

$$\underline{I}$$
/ t_{PHZ_2} and $t_{PLZ_3} = t_{SLH_2} + t_{TLH_{22}} - 50 \text{ ns}$

$$\underline{2}$$
/ t_{PHZ_A} and $t_{PLZ_A} = t_{SLH_T} + t_{TLH_{A2}} - 10 \text{ ns}$

$$\frac{3}{t_{PHL_2}}$$
 and $t_{PLH_2} = t_{period,2324} - t_{SLH_2} - t_{TLH_2} - 170 \text{ ns}$

$$\frac{4}{t_{\text{PHL}_8}}$$
 and $t_{\text{PLH}_8} = 2t_{\text{period}}(\text{clock}) - t_{\text{SLH}_7} - t_{\text{TLH}_{\emptyset2}} - 140 \text{ ns}$
 $\frac{5}{t_{\text{PHL}_9}}$ and $t_{\text{PLH}_9} = t_{\text{SLH}_9} + t_{\text{TLH}_{\emptyset2}} + 10 \text{ ns}$

$$5/$$
 t_{PHL_0} and $t_{PLH_0} = t_{SLH_0} + t_{TLH_{02}} + 10 \text{ ns}$

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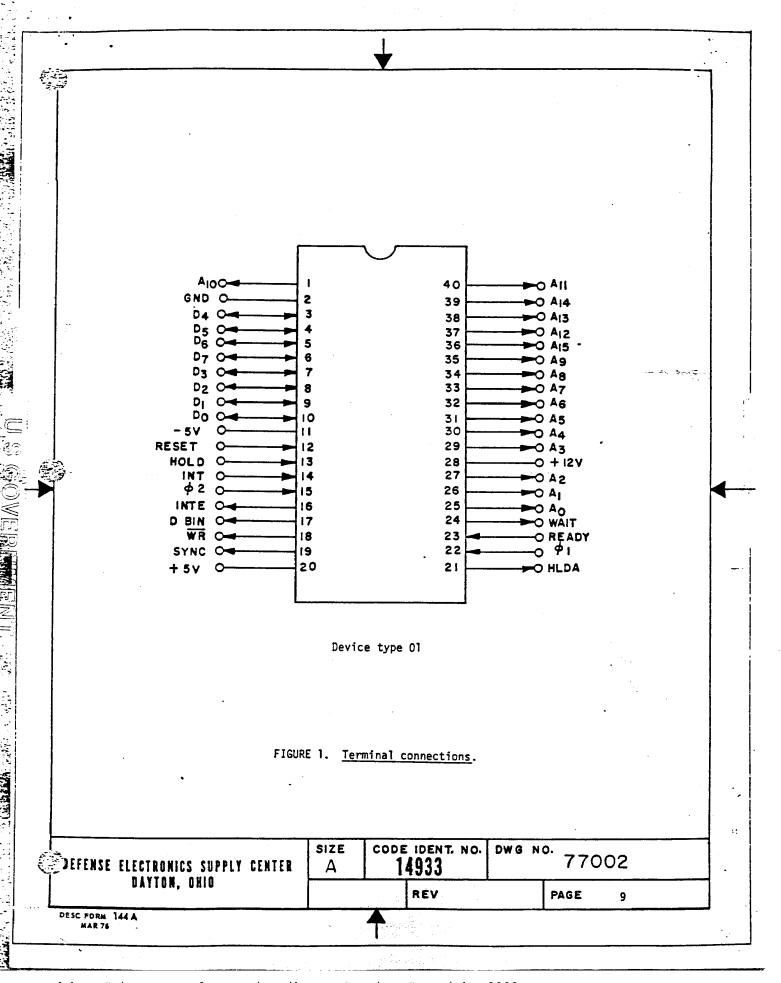
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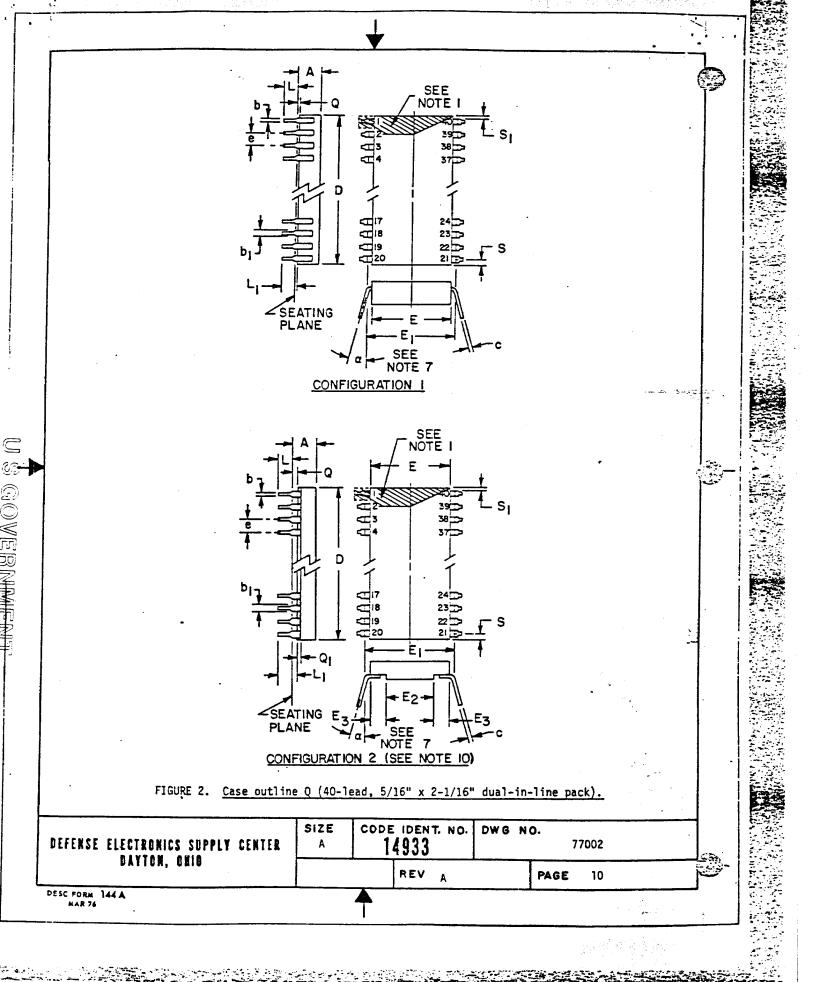
DWG NO.

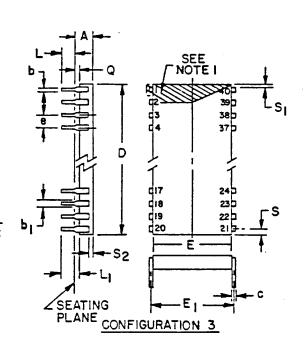
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	INC	HES	MILLI	METERS	
SYMBOL	MIN	MAX	MIN	MAX	NOTES
A		.225		5.72	
b	.014	.023	.36	.58	8
b ₁	.030	.070	.76	1.78	2,8
С	.008	.015	.20	.38	8
D		2.080		52.83	4
Ε	.510	.615	12.95	15.52	4
Ε ₁	.520	.625	13.21	15.88	7
E ₂	.280		7.11		
E ₃	.050		1.27		
е	.100	BSC	2.54 BSC		5,9
L	.120	.200	3.05	5.08	
L ₁	.150		3.81		
Q	.020	.060	.51	1.52	3
Q ₁	.020		.51		
S		.080		2.03	6
s ₁	.005		.13		6
S ₂	.005		.13		
α	0°	15°	0°	15°	

NOTES:

THE PARTY.

- Index area; a notch or a pin one identification mark shall be located adjacent to pin one and shall be located within the shaded area shown. The manufacturer's identification shall not be used as a pin one identification mark.
- The minimum limit for dimension b₁ may be .020 (.51 mm) for leads number 1, 20, 21, and 40 only.
- 3. Dimension Q shall be measured from the seating plane to the base plane.
- 4. This dimension allows for off-center lid, meniscus and glass overrun.
- 5. The basic pin spacing is .100 (2.54 mm) between centerlines. Each pin centerline shall be located within $\pm .010$ (.25 mm) of its exact logitudinal position relative to pins 1 and 40.
- 6. Applies to all four corners (leads number 1, 20, 21, and 40), and 40.5 shall apply.
- 7. Lead center when α is 0°. E₁ shall be measured at the centerline of the leads (see 40.4 of this appendix).
- All leads Increase maximum limit by .003 (.08 mm) measured at the center of the flat, when lead finish A is applied.
- Thirty eight spaces.
- If this configuration is used, no organic or polymeric materials shall be molded to the bottom of the package to cover the leads.

FIGURE 2. Case outline Q (40-lead, 5/16" x 2-1/16" dual-in-line pack) - Continued.

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- 3.6.1 <u>Screening</u>. Screening shall be in accordance with method 5004, class B, of MIL-STD-883 and 4.3 herein. The 100 percent final electrical screening for off the shelf devices shall consist of the normal 100 percent DC tests at 25°C with 10 percent PDA, high and low temperature DC tests, and 25°C AC tests followed by normal sampling and LTPD's at group A lot acceptance.
- 3.6.2 Quality conformance inspection. Quality conformance inspection shall be in accordance with MIL-M-38510 and 4.4 herein.
- 3.7 Manufacturer eligibility. To be eligible to supply microcircuits to this drawing, a manu-facturer must have manufacturer certification in accordance with MIL-M-38510 for at least one line. Any suppliers not listed on 6.6 herein shall submit Group A variables data on 22 devices in accordance with 4.4.1. This data is to be submitted to DESC-EQE.
 - 4. PRODUCT ASSURANCE PROVISIONS
- 4.1 <u>Sampling and inspection</u>. Sampling and inspection procedures shall be in accordance with MIL-M-38510 and method 5005 of MIL-STD-883, except as modified herein.
 - 4.2 Qualification inspection. Qualification inspection to this device type shall not be required.
- 4.3 <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 D or E, each circuit must be driven with an appropriate signal to simulate circuit applications and each circuit shall have maximum load applied.
 - (2) $T_A = 125$ °C minimum.
 - b. Interim and final electrical test parameters shall be as specified in table II, except interim electrical parameters test prior to burn-in is optional at the discretion of the manufacturer.
 - c. Percent defective allowable (PDA) The PDA is specified as 10 percent based on failures from group A, subgroup 1, test after cooldown as final electrical test in accordance with method 5004 of MIL-STD-883, and with no intervening electrical measurements. If interim electrical parameter tests are performed prior to burn-in, failures resulting from pre burn-in screening may be excluded from the PDA. If interim electrical parameter tests prior to burn-in are omitted, then all screening failures shall be included in the PDA. The verified failures of group A, subgroup 1, after burn-in divided by the total number of devices submitted for burn-in in that lot shall be used to determine the percent defective for the lot.
- 4.4 Quality conformance inspection. Quality conformance inspection shall be in accordance with MIL-M-38510. Groups A and B inspections shall be performed on each lot. Quality assurance shall keep lot records for 3 years (minimum), monitor for compliance to the prescribed procedures, and observe that satisfactory manufacturing conditions and records on lots are maintained for these devices. The records, including as a minimum an attributes summary of all screening and quality conformance inspections conducted on each lot, shall be available for review by the customer at all times.
- 4.4.1 Group A inspection. Group A inspection shall consist of the test subgroups and LTPD values shown in table 1 of method 5005 of MIL-STD-883 (class B) and as follows:
 - .a. Tests shall be as specified in table II.
 - b. Subgroups 4, 5, 6, and 8 of table I of method 5005 of MIL-STD-883 shall be omitted.

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- 4.4.2 Group B inspection. In group B inspection, each inspection lot shall be subjected to the test subgroups and LTPD values shown in table IIb of method 5005 of MIL-STD-883, class B.
- 4.4.3 Group C and group D inspection. Group C and group D inspections shall be as specified in method 5005 of MIL-STD-883, class B. The frequency of testing and the sample size shall be in accordance with MIL-M-38510. Generic test data (6.5) may be used to satisfy the requirements for group C and group D inspection.
 - a. End point electrical parameters shall be as specified in table II.
 - b. Operating life test (method 1005 of MIL-STD-883) conditions:
 - (1) Test condition D or E, each circuit must be driven with an appropriate signal to simulate circuit applications and each circuit shall have maximum load applied.
 - (2) $T_A = 125$ °C, minimum.
 - (3) Test duration: 1,000 hours.
 - c. Subgroups 3 and 4 shall be added to the group C inspection requirements and shall consist of the tests, conditions, and limits specified for subgroups 10 and 11 of group A.
- 4.5 Inspection of preparation for delivery. Inspection of preparation for delivery shall be in accordance with MIL-M-38510, except that the rough handling test shall not apply.

TABLE II. <u>Electrical test requirements</u>.

MIL-STD-883 test requirements	Subgroups
Interim electrical parameters (pre burn-in) (method 5004)	1
Final electrical test parameters (method 5004)	1*, 2, 3, 9
Group A test requirements (method 5005)	1, 2, 3, 7, 9
Groups C and D end point electrical parameters (method 5005)	1, 2, 3
Additional electrical sub- groups for group C periodic inspections	10, 11

^{*} PDA applies to subgroup 1 (see 4.3c).

- 5. PACKAGING
- 5.1 Packaging requirements. The requirements for packaging shall be in accordance with MIL-M-38510.
 - 6. NOTES

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6.1 Notes. Only 6.4 of the notes specified in MIL-M-38510 shall apply to this drawing.

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- 6.2 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. This drawing is intended exclusively to prevent the proliferation of unnecessary duplicate specifications, drawings and stock catalog listings. When a military specification exists and the product covered by this drawing has been qualified for listing on QPL-38510, this drawing becomes obsolete and will not be used for new design. The QPL-38510 product shall be the preferred item for all applications.
 - 6.3 Ordering data. The contract or order should specify the following:

Complete part number (see 1.2).

Requirements for delivery of one copy of the quality conformance inspection data pertinent to the device inspection lot to be supplied with each shipment by the device manufacturer, if applicable.
Requirement for certificate of compliance, if applicable.

Requirements for notification of change of product or process to procuring activity, if applicable.

Requirements for packaging and packing.

- Requirements for carrier, special lead lengths or lead forming, if applicable. These requirements shall not affect the part number. Unless otherwise specified, these requirements will not apply to direct shipment to the Government.
- 6.4 Replaceability. Replaceability is determined as follows:

a. Microcircuits covered by this drawing will replace the same generic device covered by contractor prepared specification or drawing.

When Military Specification MIL-M-38510/420 is issued, the part numbered devices specified in this drawing will be replaced by the microcircuit identified as part number M38510/42001B---.

6.5 Generic test data. Generic test data may be used to satisfy the requirements of 4.4.3. Generic test data is defined as test data from devices manufactured during the same time period, by means of the same production technique, materials, controls and design, and in the same micro-circuit group (see 3.1.3(h) of MIL-M-38510) as the deliverable devices. The same time period shall be interpreted as covering a maximum span of 180 days between the generic test sample fabrication and the fabrication of deliverable devices. The vendor is required to retain generic data for a period of not less than 36 months from the date of shipment.

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6.6 Suggested source(s) of supply. 2/

DESC DRAWING PART NUMBER	VENDOR FSCM NUMBER	SIMILAR 1/ VENDOR TYPE	REPLACEMENT MILITARY SPECIFICATION PART NUMBER
7700201Q X	34335 34649 27014 01295	AM9080A MC8080A/B INS8080A TMS8080A	M38510/42001BQX

VENDOR FSCM NUMBER	YENDOR NAME AND ADDRESS	
34335	Advanced Micro Devices, Inc. 901 Thompson Place Sunnyvale, CA 94086	
34649	Intel Corporation 3065 Bowers Avenue Santa Clara, CA 95051	
27014	National Semiconductor Corp. 2900 Semiconductor Drive Santa Clara, CA 95051	
01295	Texas Instruments, Inc. P. O. Box 5012 Dallas, TX 75222	

- 1/ CAUTION. DO NOT USE THIS NUMBER FOR ITEM PROCUREMENT. ITEMS PROCURED TO THE SIMILAR VENDOR TYPE ONLY MAY NOT SATISFY THE PERFORMANCE REQUIREMENTS OF THIS DRAWING.
- 2/ For additional suggested sources of supply or assistance in the use of this drawing, contact DESC-EC, 1507 Wilmington Pike, Dayton, Ohio 45444 or telephone 513 -296-5375.

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