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<u>DISTRIBUTION STATEMENT A.</u> Approved for public release; distribution is unlimited.

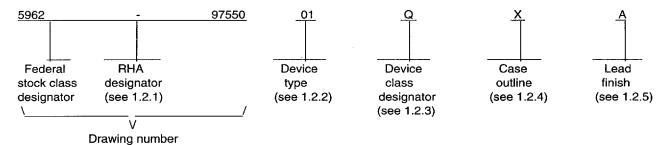
5962-E267-97

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1. SCOPE

查询"5962-9755001QXA"供应商

- 1.1 Scope. This drawing documents two product assurance class levels consisting of high reliability (device classes Q and M) and space application (device class V). A choice of case outlines and lead finishes are available and are reflected in the Part or Identifying Number (PIN). When available, a choice of Radiation Hardness Assurance (RHA) levels are reflected in the PIN.
 - 1.2 PIN. The PIN is as shown in the following example:



- 1.2.1 RHA designator. Device classes Q and V RHA marked devices meet the MIL-PRF-38535 specified RHA levels and are marked with the appropriate RHA designator. Device class M RHA marked devices meet the MIL-PRF-38535, appendix A specified RHA levels and are marked with the appropriate RHA designator. A dash (-) indicates a non-RHA device.
 - 1.2.2 Device type(s). The device type(s) identify the circuit function as follows:

Device type	Generic number	<u>Circuit function</u>		
01	TL16C552AM	Dual Asynchronous Communications Element With FIFO		

1.2.3 Device class designator. The device class designator is a single letter identifying the product assurance level as follows:

Device class

Device requirements documentation

М

Vendor self-certification to the requirements for MIL-STD-883 compliant, non-JAN class level B microcircuits in accordance with MIL-PRF-38535,

appendix A

Q or V

Certification and qualification to MIL-PRF-38535

1.2.4 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
×	See Figure 1	68	Ceramic quad flat pack

1.2.5 Lead finish. The lead finish is as specified in MIL-PRF-38535 for device classes Q and V or MIL-PRF-38535, appendix A for device class M.

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1. 3 Absolute maximum ratings. 1/ 2/

É	頁 5962-9755001QXA"供应商 Supply voltage range (Ⅷ)	
	Input voltage (V _N)	
	Continuous total power dissipation at 25°C	1689 mW <u>3</u> /
	Operating free air temperature range (T _A)	
	Storage temperature range (T _{STG})	-65°C to +150°C
	Thermal resistance, junction-to-case (Peuc)	3°C/W
	Thermal resistance, junction-to-air (P _{BJA})	
	Junction temperature (T _J)	+175 °C

1.4 Recommended operating conditions. 2

Supply voltage range (Vbb)	4.75 V dc to 5.25 V dc
High-level input voltage range (V _H)	+2.0 V dc to V _D
Low-level input voltage (VL)	+0.0 V dc to +0.8 V
Clock frequency, (fclock)	16MHz max
Operating free-air temperature range (T _A)	-55 °C to +125 °C

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 listed in the issue of the Department of Defense Index of Specifications and Standards (DoDISS) and supplement thereto, cited in the solicitation.

SPECIFICATION

MILITARY

MIL-PRF-38535 - Integrated Circuits, Manufacturing, General Specification for.

STANDARDS

MILITARY

MIL-STD-883 - Test Methods and Procedures for Microelectronics.
MIL-STD-973 - Configuration Management.
MIL-STD-1835 - Microcircuit Case Outlines.

HANDBOOKS

MILITARY

MIL-HDBK-103 - List of Standard Microcircuit Drawings (SMD's).
MIL-HDBK-780 - Standard Microcircuit Drawings.

(Unless otherwise indicated, copies of the specification, standards, and handbooks are available from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.)

- 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.
- Unless otherwise noted, all voltages are referenced to GND.
- 3/ Above 25°C, derate at a factor of 13.5mW/°C.

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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 and the references cited herein, the text of this drawing and the references cited herein, the text of this drawing and the references cited herein, the text of this drawing and the references cited herein, the text of this drawing and the references cited herein, the text of this drawing and the references cited herein, the text of this drawing and the references cited herein, the text of this drawing and the references cited herein, the text of this drawing and the references cited herein, the text of this drawing and the references cited herein, the text of this drawing and the references cited herein, the text of this drawing and the references cited herein, the text of this drawing and the references cited herein, the text of this drawing and the references cited herein, the text of this drawing and the references cited herein, the text of this drawing and the references cited herein the text of this drawing and the references cited herein the text of this drawing and the references cited herein the text of this drawing and the references cited herein the text of this drawing and the references cited herein the text of this drawing and the references cited herein the text of the tex

3. REQUIREMENTS

- 3.1 <u>Item requirements</u>. The individual item requirements for device classes Q and V shall be in accordance with MIL-PRF-38535 and as specified herein or as modified in the device manufacturer's Quality Management (QM) plan. The modification in the QM plan shall not affect the form, fit, or function as described herein. The individual item requirements for device class M shall be in accordance with MIL-PRF-38535, appendix A for non-JAN class level B devices 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-PRF-38535 and herein for device classes Q and V or MIL-PRF-38535, appendix A and herein for device class M.
 - 3.2.1 Case outline(s). The case outline(s) shall be in accordance with 1.2.4 herein and figure 1.
 - 3.2.2 Terminal connection(s). The terminal connection(s) shall be as specified on figure 2.
- 3.3 <u>Electrical performance characteristics and postirradiation parameter limits</u>. Unless otherwise specified herein, the electrical performance characteristics and postirradiation parameter limits are as specified in table I and shall apply over the full 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 defined in table I.
- 3.5 <u>Marking</u>. The part shall be marked with the PIN listed in 1.2 herein. In addition, the manufacturer's PIN may also be marked as listed in MIL-HDBK-103. 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. For RHA product using this option, the RHA designator shall still be marked. Marking for device classes Q and V shall be in accordance with MIL-PRF-38535. Marking for device class M shall be in accordance with MIL-PRF-38535, appendix A.
- 3.5.1 <u>Certification/compliance mark</u>. The certification mark for device classes Q and V shall be a "QML" or "Q" as required in MIL-PRF-38535. The compliance mark for device class M shall be a "C" as required in MIL-PRF-38535, appendix A.
- 3.6 <u>Certificate of compliance</u>. For device classes Q and V, a certificate of compliance shall be required from a QML-38535 listed manufacturer in order to supply to the requirements of this drawing (see 6.6.1 herein). For device class M, 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 6.6.2 herein). The certificate of compliance submitted to DSCC-VA prior to listing as an approved source of supply for this drawing shall affirm that the manufacturer's product meets, for device classes Q and V, the requirements of MIL-PRF-38535 and herein or for device class M, the requirements of MIL-PRF-38535, appendix A and herein.
- 3.7 <u>Certificate of conformance</u>. A certificate of conformance as required for device classes Q and V in MIL-PRF-38535 or for device class M in MIL-PRF-38535, appendix A shall be provided with each lot of microcircuits delivered to this drawing.
- 3.8 <u>Notification of change for device class M</u>. For device class M, notification to DSCC-VA of change of product (see 6.2 herein) involving devices acquired to this drawing is required for any change as defined in MIL-STD-973.
- 3.9 <u>Verification and review for device class M</u>. For device class M, 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.
- 3.10 <u>Microcircuit group assignment for device class M</u>. Device class M devices covered by this drawing shall be in microcircuit group number 10 (see MIL-PRF-38535, appendix A).

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Test	Symbol	Conditions -55°C ≤ T _A ≤+125°C unless otherwise specified	Group A subgroups	Device Types	Limits		Unit
					Min	Max	
High level output voltage	Vон	$V_{DD} = 5.25 \text{ V}, V_{IH} = 2 \text{ V},$ $V_{IL} = 0.8 \text{ V},$ $I_{OH} = -12 \text{ mA for PD0-PD7},$ $I_{OH} = -4 \text{ mA for all other}$ outputs $1/$	1, 2, 3	All	2.4		V
Low-level output voltage	Vol	$V_{DD} = 5.25 \text{ V}, V_{IH} = 2 \text{ V},$ $V_{IL} = 0.8 \text{ V},$ $l_{OL} = 12 \text{ mA for PD0-PD7},$ $l_{OL} = 12 \text{ mA for INIT},$ $AFD, STB, and SLIN,$ $l_{OL} = 4 \text{ mA for all other}$ outputs	1, 2, 3	All		0.4	V
Input current	•	V _{DD} = 5.25 V, all other terminals floating 2/	1, 2, 3	All		±10	μА
High impedance output current	loz	V_{DD} = 5.25 V, V_{O} = 0 V with chip de-selected or V_{O} = 5.25 V with chip and write-mode selected 1/	1, 2, 3	All		±20	μА
Dynamic supply current	Ьо	V_{DD} = 5.25 V, inputs at 0.8 V or 2.0 V, no loads on outputs, f_{CLK} = 8 MHz	1, 2, 3	All		50	mA
		Clock Timing Requireme	ents <u>3</u> /	<u>-l</u>	l	.1	L
Pulse duration, CLK↑	t _{w1}	see figure 3	9, 10, 11		31		ns
Pulse duration, CLK↓	t _{w2}	see figure 3	9, 10, 11		31	T	ns
Pulse duration, RESET	t _{w3}	see figure 3	9, 10, 11		1000	1	ns

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■ 9004708 0030157 077 ■

TABLE I. Electrical performance characteristics - Continued. 查询"5962-9755001QXA"供应商 Read Cycle Timing Requirements 3/

Test	Symbol Conditions -55°C ≤ T _A ≤+125°C unless otherwise specified		Group A subgroups	Device Types			Unit
		uniess otherwise specified			Min	Max	
Pulse duration, IOR↓	t _{w4}	see figure 3	9, 10, 11		80		ns
Setup time, CSx valid before IOR ↓ 4/	t _{su1}	see figure 3	9, 10, 11		15		ns
Setup time, A2-A0 valid before IOR ↓ 4/	t _{su2}	see figure 3	9, 10, 11		15		ns
Hold time, A2-A0 valid after IOR ↑ 4/	t _{h1}	see figure 3	9, 10, 11		20		ns
Hold time, CSx valid after IOR↑ 4/	t _{h2}	see figure 3	9, 10, 11		20		ns
Delay time, $t_{su2} + t_{w4} + t_{d2} = 5/$	taı	see figure 3	9, 10, 11		175		ns
Delay time, IOR↑ to IOR or IOW↓	t _{d2}	see figure 3	9, 10, 11		80		ns
		Write Cycle Timing Require	ments <u>3</u> /				
Pulse duration, IOW ↓	t _{w5}	see figure 3	9, 10, 11		80		ns
Setup time, CSx valid before IOW ↓ 4/	t _{su4}	see figure 3	9, 10, 11		15		ns
Setup time, A2-A0 valid before IOW \(\preceq \frac{4}{} \)	t _{su5}	see figure 3	9, 10, 11		15		ns
Setup time, DB0-DB7 valid before IOW ↑	t _{su6}	see figure 3	9, 10, 11		15		ns
Hold time, A2-A0 valid after IOW ↑ 4/	t _{h3}	see figure 3	9, 10, 11		20		ns
Hold time, CSx valid after IOW ↑ 4/	t _{h4}	see figure 3	9, 10, 11		20		ns
Hold time, DB0-DB7 valid after IOW ↑	t _{h5}	see figure 3	9, 10, 11		15		ns
Delay time, t _{su5} + t _{w5} + t _{d4}	t _{d3}	see figure 3	9, 10, 11		175		ns
Delay time, IOW ↑ to IOW or IOR↓	t _{d4}	see figure 3	9, 10, 11		80		ns

See footnotes at end of table.

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TABLE I. <u>Electrical performance characteristics</u> - Continued. 查询"5962-9755001QXA"供应**P**ead Cycle Switching Characteristics <u>3</u>/ <u>6</u>/

Test	Symbol	Symbol Conditions -55°C ≤ T _A ≤+125°C unless otherwise specified		Device Types	Limits		Unit
	- 10 11				Min	Max	
Propagation delay time, IOR↓ to BDO↑ or IOR↑ to BDO↓	t _{pd1}	C _L = 100pF see figure 3	9, 10, 11			60	ns
Enable time, IOR ↓ to DB0-DB7 valid	t _{en}	C _L = 100pF see figure 3	9, 10, 11		***	60	ns
Disable time, IOR↑ to DB0-DB7 released	t _{dis}	C _L = 100pF see figure 3	9, 10, 11			60	ns
		Transmitter Switching Charac	teristics 3/				
Delay time, interrupt THRE↓ to SOUT↓ <u>7</u> /	t _{d5}	see figure 3	9, 10, 11		8	24	RCLK cycles
Delay time, SOUT↓ at start to interrupt THRE↑ 8/	t _{d6}	see figure 3	9, 10, 11		8	9	RCLK cycles
Delay time, IOW (WR THR)↑ to interrupt THRE↑ 8/	t _{d7}	see figure 3	9, 10, 11		16	32	RCLK cycles
Delay time, SOUT↓ at start to TXRDY ↓	t _{d8}	C _L = 100pF see figure 3	9, 10, 11			8	RCLK cycles
Propagation delay time, IOW (WR THR)↓ to interrupt THRE↓	t _{pd2}	C _L = 100pF see figure 3	9, 10, 11			140	ns
Propagation delay time, IOR (RD IIR)↑ to interrupt THRE↓	t _{pd4}	C _L = 100pF see figure 3	9, 10, 11			140	ns
Propagation delay time, IOW (WR THR)↑ to TXRDY ↑	t _{pd5}	C _L = 100pF see figure 3	9, 10, 11			195	ns

See footnotes at end of table.

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TABLE I. <u>Electrical Performance Characteristics</u> - Continued 查询"5962-9755001QXA"供应商 Receiver Switching Characteristics <u>3</u>/

Test	Symbol	Conditions -55°C ≤ T _A ≤+125°C unless otherwise specified	Group A subgroups	Device Types	Lin	nits	Unit
		'			Min	Max	
Delay time, from stop to INT 9/	t _{d9}	see figure 3	9, 10, 11			1	RCLK cycles
Propagation delay time, RCLK↑ to sample CLK↑	t _{pd6}	see figure 3	9, 10, 11			100	ns
Propagation delay time, IOR (RD RBR / RD LSR)↓ to reset interrupt↓	t _{pd7}	C _L = 100pF see figure 3	9, 10, 11			150	ns
Propagation delay time, IOR (RD RBR)↓ to RXRDY ↑	t _{pd8}	see figure 3	9, 10, 11			150	ns
	M	lodem Control Switching Char	acteristics <u>3</u> /				
Propagation delay time, IOW (WR MCR)↑ to RTS or DTR ↓↑	t _{pd9}	C _L = 100pF see figure 3	9, 10, 11			100	ns
Propagation delay time, modem input (CTS, DSR)↓↑ to interrupt↑	t _{pd10}	C _L = 100pF see figure 3	9, 10, 11			170	ns
Propagation delay time, IOR (RD MSR)↑ to interrupt↓	t _{pd11}	C _L = 100pF see figure 3	9, 10, 11			140	ns
Propagation delay time, RIT to interrupt	t _{pd12}	C _L = 100pF see figure 3	9, 10, 11			170	ns

See footnotes at end of table.

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TABLE I. <u>Electrical Performance Characteristics</u> - Continued 查询"5962-9755001QXA"供应商 Parallel Port Timing Requirements <u>3</u>/

Test	Symbol	Conditions -55°C ≤ T _A ≤+125°C unless otherwise specified	Group A subgroups	Device Types			Unit
					Min	Max	
Setup time, data valid before STB ↓	t _{su7}	see figure 3	9, 10, 11		1		μs
Hold time, data valid after STB ↑	t _{h6}	see figure 3	9, 10, 11		1		μs
Pulse duration, STB ↓	t _{w6}	see figure 3	9, 10, 11		1		μS
Delay time, BUSY↑ to ACK ↓ 10/	t _{d10}	see figure 3	9, 10, 11				•
Delay time, BUSY↓ to ACK ↓ 10/	t _{d11}	see figure 3	9, 10, 11				
Pulse duration, BUSY [↑] 10/	t _{w7}	see figure 3	9, 10, 11				
Pulse duration, ACK ↓ <u>10</u> /	t _{w8}	see figure 3	9, 10, 11				
Delay time, BUSY [↑] after STB [↑] 10/	t _{d12}	see figure 3	9, 10, 11				
Delay time, INT2↓ after ACK ↓	t _{d13}	C _L = 15pF see figure 3	9, 10, 11			22	ns
Delay time, INT2↑ after ACK ↑	t _{d14}	C _L = 15pF see figure 3	9, 10, 11			20	ns
Delay time, INT2↑ after ACK ↑	t _{d15}	C _L = 15pF see figure 3	9, 10, 11			24	ns
Delay time, INT2↓ after IOR↑	t _{d16}	C _L = 15pF see figure 3	9, 10, 11		. 1	25	ns

See footnotes at end of table.

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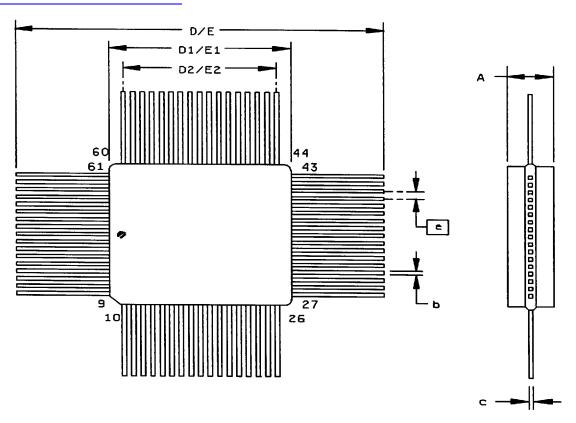
TABLE I. <u>Electrical Performance Characteristics</u> - Continued 查询"5962-9755001QXA"供应商

- $\underline{1}$ / Excluding STB , INIT , AFD , and SLIN pins because these terminals are open-drain pins with an internal pull-up resistor to V_{DD} of approximately $10 \text{K}\Omega$.
- 2/ Excluding the TRI pin because this input terminal contains an internal pull-down resistor that is approximately 5to.
- 3/ These parameters are guaranteed by design but not tested except for \$\dagger{a}_1\$, which is tested at 25°C, 125°C, and -55°C.
- 4/ The internal address strobe is always active during this test.
- 5/ In the FIFO mode, $t_{11} = 425$ nS (min) between reads of the receiver FIFO and the status registers (interrupt identification register and line status register).
- 6/ Vol., Voh, and the external loading determine the charge and discharge time.
- 7/ The acronym THRE stands for transmitter holding register empty.
- 8/ When the transmitter interrupt delay is active, this delay is lengthened by one character time minus the last stop bit time.
- 9/ The receiver data available indicator, the overrun error indicator, the trigger level interrupts, and the active RXRDY indicator are delayed 3 RCLK cycles in the FIFO mode (FCR0 = 1). After the first byte has been received, status indicators (PE, FE, BI) are delayed 3 RCLK cycles. These indicators are updated immediately for any further bytes received after RDRBR goes active. There are 8 RCLK cycle delays for trigger change level interrupts.
- 10/ Limits for these parameters are defined by the printer being used and are not part of this specification.

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	Dimensions				
	Inches		Millin	neters	
Symbol	Min	Max	Min	Max	
A	0.134	0.154	3.404	3.912	
b	0.008	0.013	0.203	0.330	
С	0.005	0.007	0.127	0.178	
D/E	1.300	1.500	33.02	38.10	
D1/E1	0.485	0.500	12.32	12.70	
D2/E2	0.400	0.400 TYP		TYP	
<u>e</u>	0.025	0.025 BSC		BSC	

FIGURE 1. Case outline.

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* \/====================================								
查询"5962-97 <mark>55001QXA"供应商</mark> Device Type 01								
		Case O						
	Terminal Number	Terminal Symbol	Terminal Number	Terminal Symbol				
	1	PMED	35	A0				
	2	TRI	36	IOW				
	3	CS1	37	IOR				

Case Outline X							
Terminal Number	Terminal Symbol	Terminal Number	Terminal Symbol				
1	PMED	35	A0				
2	TRI	36	IOW				
3	CS1	37	IOR				
4	CLK	38	CS2				
5	DSR1	39	RESET				
6	RI1	40	V_{DD}				
7	GND	41	SIN0				
8	DCD1	42	TXRDY1				
9	RXRDY0	43	ENIRQ				
10	SOUT1	44	BD0				
11	DTR1	45	INTO				
12	RTS1	46	PD7				
13	CTS1	47	PD6				
14	DB0	48	PD5				
15	DB1	49	PD4				
16	DB2	50	PD3				
17	DB3	51	PD2				
18	DB4	52	PD1				
19	DB5	53	PD0				
20	DB6	54	GND				
21	DB7	55	STB				
22	TXRDY0	56	AFD				
23	V _{DD}	57	INIT				
24	RTS0	58	SLIN				
25	DTR0	59	INT2				
26	SOUT0	60	INT1				
27	GND	61	RXRDY1				
27	CTS0	62	SIN1				
29	DCD0	63	ERR				
30	RIO	64	V _{DD}				
31	DSR0	65	SLCT				
32	CS0	66	BUSY				
33	A2	67	PE				
34	A1	68	ACK				

FIGURE 2. <u>Terminal connections</u>.

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查询"596½ng/ Name	No.	<u> </u>	Description
ACK	68	1	Line printer acknowledge. ACK goes low to indicate a successful data transfer has
AED			taken place. ACK generates a printer port interrupt during its positive transition.
AFD	56	I/O	Line printer autofeed. AFD is an open-drain line that provides the printer with an
			active-low signal when continuous form paper is to be autofed to the printer. AFD has an internal pull-up resistor to V_{DD} of approximately 10 k Ω .
An (n = 0 to 3)	35,34,33	i	Address. The address lines A0-A2 select the internal registers during CPU bus operations.
BDO	44	0	Bus buffer. BDO is an active-high output and is asserted when either serial channe or the parallel port is read. BDO controls the system bus driver.
BUSY	66	1	Line printer busy. BUSY is an input line from the printer that goes high when the printer is not ready to accept data.
CLK	4	ı	Clock. CLK is the external clock input to the baud rate divisor of each ACE.
CSn (n = 0 to 2)	32,3,38	1	Chip select. Each CSn input acts as an enable for the write and read signals for
•			serial channels 1 (CS0) and 2 (CS1). CS2 enable the signals to the printer port.
CTSn (n = 0 and	1) 28,13	l I	Clear to send. The logical state of each CTSn terminal is reflected in the CTS bit of
			the modern status register (CTS is bit 4 of the modern status register, written as
			MSR4) of each ACE. A change of state in eitherCTS terminal since the previous
			reading of the associated MSR causes the setting of ∆ CTS (MSR0) of each modern
			status register.
DBn (n = 0 to 7)	14-21	I/O	Data bits DB0 - DB7. The data bus provides eight I/O lines with 3-state outputs for the transfer of data, control, and status information between the TL16C552A and the CPU. These lines are normally in the high-impedance state except during read operations. DB0 is the least significant bit (LSB) and is the first serial bit to be received or transmitted.
DCDn (n = 0 and 1) 29,8	1	Data carrier detect. DCD is a modem input. Its condition can be tested by the CPL
			by reading MSR7 (DCD) of the modern status registers. MSR3 (ADCD) of the
			modem status register indicates whether DCD has changed states since the
			previous reading of the MSR. DCD has no effect on the receiver.
DSRn (n = 0 and 1) 31,5	1	Data set ready. The logical state of the DSRn terminals is reflected in the MSR5 of
			its associated modern status register. ΔDSR (MSR1) indicates whether the
			associated DSRn terminal has changed states since the previous reading of the MSR.
DTRn (n = 0 and	1) 25,11	0	Data terminal ready. Each DTRn can be set low by setting MCR0, modem control
			register bit 0 of its associated ACE. DTRn is cleared (high) by clearing the DTR bi
			(MCR0) or whenever a reset occurs. When active (low), DTRn indicates that its
			ACE is ready to receive data.

FIGURE 2a. Terminal description.

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查询readinal	(55001Q)	(A"供应I	
NAME	NO.	1/0	DESCRIPTION
ENIRQ	43	ı	Parallel port interrupt source mode selection. When ENIRQ is low, the AT mode of interrupts is enabled. In AT mode, INT2 is intentionally connected to ACK. When ENIRQ is tied high, the PS-2 mode of interrupt is enabled and INT2 is internally tied to the inverse of the PRINT bit in the line printer status register. INT2 is latched high on the rising edge of ACK. INT2 is held until the status register is read, which then clears the PRINT status bit and INT2.
ERR	63	1	Line printer error. ERR is an input line from the printer. The printer reports an error by holding ERR low during the error condition.
GND	1,27,54		Ground (0 V). All terminals must be tied to GND for proper operation.
INIT	57	I/O	Line printer initialize. INIT is an open-drain that provides the printer with an active-low signal that allows the printer initialization routine to be started. INIT has an internal pull-up resistor to V _{DD} of approximately 10 kΩ.
INTn (n = 0 and 1)	45,60	0	External serial channel interrupt. Each serial channel interrupt 3-state output (enabled by bit 3 of the MCR) goes active (high) when one of the following interrupts has an active (high) condition and is enabled by the interrupt enable register of its associated channel: receiver error flag, received data available, transmitter holding register empty, and modem status. The interrupt is cleared on appropriate service. Upon reset, the interrupt output is in the high-impedance state.
INT2	59	0	Printer port interrupt. INT2 is an active-high, 3-state output generated by the positive transition of ACK. INT2 is enabled by bit 4 of the write control register. Upon reset, INT2 is in the high-impedance state. Its mode is also controlled by ENIRQ.
IOR	37	I	Input/output read strobe. IOR is an active-low input that enables the selected channel to output data to the data bus (DB0-DB7). The data output depends on the register selected by the address inputs A0, A1, A2, and chip select. Chip select 0 (CS0) selects ACE #1, chip select 1 (CS1) selects ACE #2, and chip select 2 (CS2) selects the printer port.
IOW	36	l	Input/output write strobe. IOW is an active-low input causing data from the data bus to be input to either ACE or to the parallel port. The destination depends on the register selected by the address inputs A0, A1, A2, and chip selects CS0, CS1, and CS2.
PDn (n = 0 to 7)	53-46	1/0	Parallel data bits (0-7). PD0-PD7 provide a byte wide input or output port to the system.
PE	67	-	Line printer paper empty. PE is an input line from the printer that goes high when the printer runs out of paper.
PEMD	1	l	Printer enhancement mode. When low, PEMD enables the write data register to the PD0 - PD7 lines. A high on PEMD allows direction control of the PD0 - PD7 port by the DIR bit in the control register. PEMD is usually tied low for the printer operation.

FIGURE 2a. <u>Terminal description</u> - continued.

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NAME NO.	I/O	DESCRIPTION
RESET 39	ŀ	RESET . When low, RESET forces the TL16C552A into an idle mode in which all
		serial data activities are suspended. The modem control register along with its
ŀ		associated outputs are cleared. The line status register is cleared except for the
		THRE and TEMT bits, which are set. All functions of the device remain in the idle
		state until programmed to resume serial data activities. RESET has a hysteresis
		level of typically 400 mV.
RTSn (n = 0 and 1) 24,12	0	Request to send. The RTS outputs are set low by setting MCR1 of its UARTs
		modem control register. Both RTS terminals are reset high by RESET . A low on
		RTS indicates that its ACE has data ready to transmit. In half-duplex operations,
		RTS controls the direction of the line.
RXRDYn (n = 0 and 1) 9,61	0	Receiver ready. Receiver direct memory access (DMA) signaling is also available through this output. One of two types of DMA signaling can be selected using FCR3 when operating in the FIFO mode. Only DMA mode 0 is allowed when operating in the TL16C450 mode. For signal transfer DMA (a transfer is made between CPU bus cycles), Mode 0 is used. Multiple transfers are made continuously until the receiver FIFO has been emptied are supported by mode 1.
		Mode 0. RXRDY is active (low) when in the FIFO mode (FCR0=1, FCR3 = 0) or
		when in the TL16C450 mode (FCR0 = 0) and the receiver FIFO or receiver holding
		register contain at least one character. When there are no more characters in the
		FIFO or holding registers, RXRDY goes inactive (high).
		Mode 1. RXRDY goes active (low) in the FIFO mode (FCR0 = 1) when FCR3 = 1
		and the time-out or trigger levels have been reached. RXRDY goes inactive (high)
		when the FIFO or holding register is empty.
RIn $(n = 0 \text{ and } 1)$ 30,6	1	Ring indicator. The RI signal is a modem control input. Its condition is tested by
		reading MSR6 (RI) of each ACE. The modem status register output TERI (MSR2)
		indicates whether RI has changed from high to low since the previous reading of
		the modern status register.
SINn (n = 0 and 1) 41,62	1	Serial data. SINO and SIN1 move information from the communication line or modem to the receiver circuits. Mark is a high state and space is a low state. Data on serial data inputs is disabled when operating in the loop mode.
SLCT 65	I	Line printer select. SLCT is an input line from the printer that goes high when the printer is selected.
SLIN 58	1/0	Line printer select. SLIN is an open-drain I/O that selects the printer when active
•		(low). SLIN has an internal pull-up resistor to V _{DD} of approximately 10 kΩ.
SOUTn (n = 0 and 1) 26,10	0	Serial data outputs. SOUT0 and SOUT1 are the serial data outputs from the ACE
	1	transmitter circuitry. A mark is a high state and a space is a low state. Each SOUT
		is held in the mark condition when the transmitter is disabled RESET is asserted
		low) the transmitter register is empty, or when in the loop mode.
		FIGURE 2a Terminal description continued

FIGURE 2a. Terminal description - continued.

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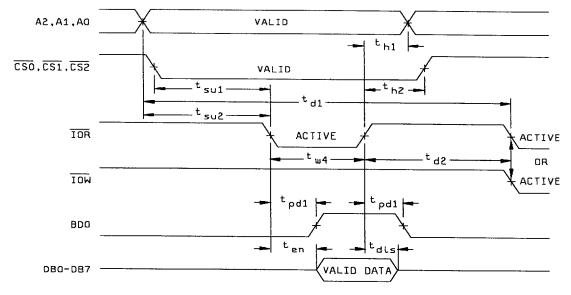
		_
STE	XA" 摄应	Line printer strobe. STB provides communication between the TL16C552A and the printer. When STB is active (low), it provides the printer with a signal to latch the data currently on the printer port. STB has an internal pull-up resistor to V _{DD} of approximately 10 kΩ.
TRI 2	I	3-state output control input. TRI controls the 3-state control of all I/O and output terminals. When TRI is asserted, all I/Os and outputs are in the high-impedance state allowing board level testers to drive the outputs without overdriving internal buffers. TRI is level sensitive and is pulled down with an internal resistor that is approximately 5 kΩ.
TXRDYn (n=0 or 1) 22, 42	0	Transmitter ready. Two types of DMA signaling are available. Either can be selected using FCR3 when operating in the FIFO mode. Only DMA mode 0 is allowed when operating in the TL16C450 mode. Single-transfer DMA a transfer is made between CPU bus cycles) is supported by mode 0. Multiple transfers that are made continuously until the transmitter FIFO has been filled are supported by mode 1.
		Mode 0. When in the FIFO mode (FCR= 1, FCR3 = 0) or in the TL16C450 mode (FCR = 0) and there are no characters in the transmitter holding register or transmitter FIFO, TXRDYn is active (low). Once TXRDYn is activated (low), it goes inactive after the first character is loaded into the holding register of the transmitter
		FIFO. Mode 1. TXRDY goes active (low) when in the FIFO mode (FCR0 = 1) when FCR3 = 1 and there are no characters in the transmitter FIFO. When the transmitter FIFO is completely full, TXRDY goes inactive (high).
V _{DD} 23,40,64		Power supply. The V _{DD} requirement is 5 V± 5%.

FIGURE 2a. <u>Terminal description</u> - continued.

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READ CYCLE TIMING WAVEFORM

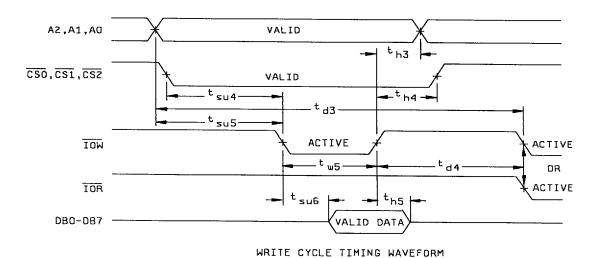
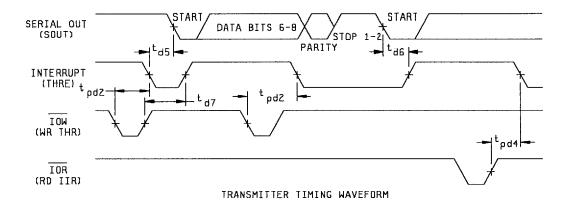


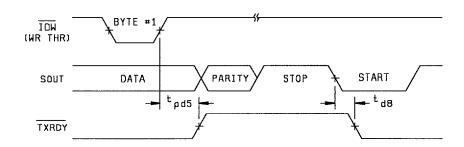
FIGURE 3. Timing waveforms.

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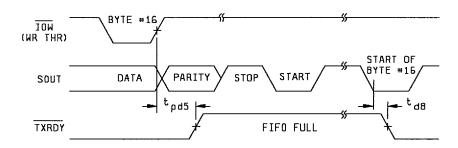
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TRANSMITTER READY MODE D TIMING WAVEFORM

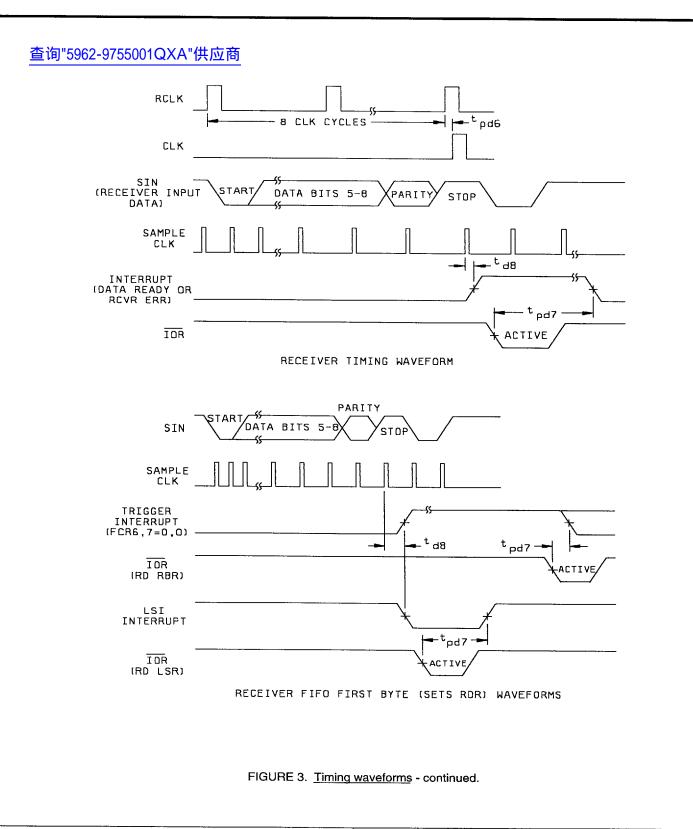


TRANSMITTER READY MODE 1 TIMING WAVEFORM

FIGURE 3. Timing waveforms - continued.

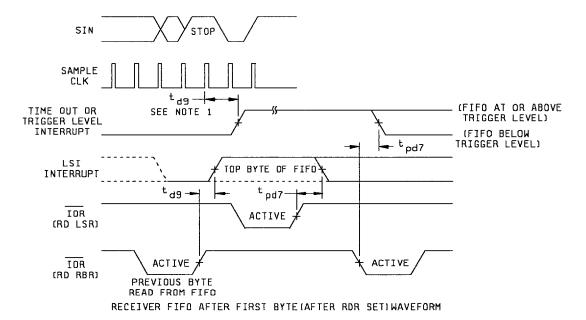
STANDARD MICROCIRCUIT DRAWING	SIZE A		5962-97550
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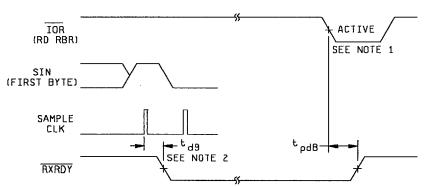
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RECEIVER READY NODE O WAVEFORM

NOTES: 1. This is the reading of the last byte in the FIFO.

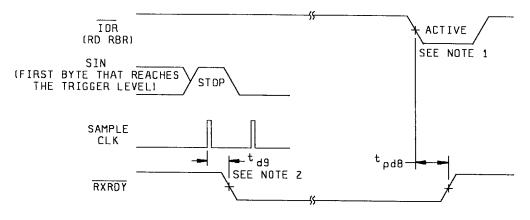
2. If FCRO = 1, t_{19} = 3 RCLK cycles. For a time-out interrupt, t_{19} = 8 RCLK cycles.

FIGURE 3. Timing waveforms - continued.

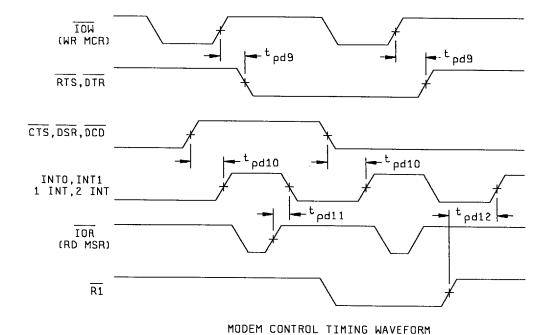
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STANDARD MICROCIRCUIT DRAWING	SIZE A		5962-97550
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RECEIVER READY MODE 1 WAVEFORM



NOTES: 1. This is the reading of the last byte in the FIFO.

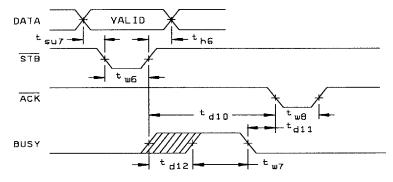
2. If FCRO = 1, t_{19} = 3 RCLK cycles. For a time-out interrupt, t_{19} = 8 RCLK cycles.

FIGURE 3. Timing waveforms - continued.

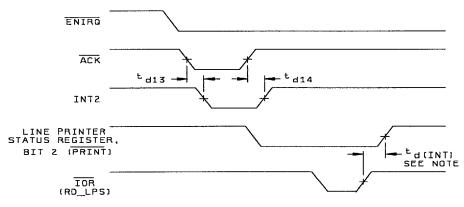
STANDARD MICROCIRCUIT DRAWING	SIZE A		5962-97550
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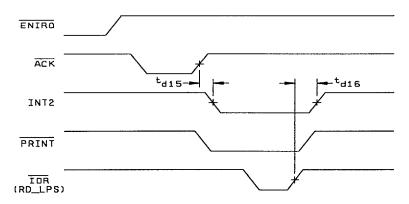
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PARALLEL PORT TIMING WAVEFORM



PARALLEL PORT AT MODE TIMING(ENIRG=LOW)WAVEFORM



PARALLEL PORT PS/2 MODE TIMING(ENIRQ=HIGH)WAVEFORM

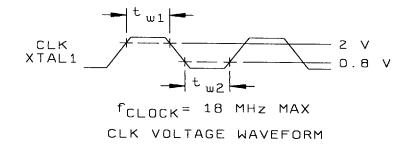
NOTES: A timing value is not provided for $t_{i(int)}$ since the line printer status register, bit 2 (PRINT) is an internal signal.

FIGURE 3. Timing waveforms - continued.

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RESET t w3

RESET VOLTAGE WAVEFORM

FIGURE 3. Timing waveforms - continued.

STANDARD
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- 4.1 <u>Sampling and inspection</u>. For device classes Q and V, sampling and inspection procedures shall be in accordance with MIL-PRF-38535 or as modified in the device manufacturer's Quality Management (QM) plan. The modification in the QM plan shall not affect the form, fit, or function as described herein. For device class M, sampling and inspection procedures shall be in accordance with MIL-PRF-38535, appendix A.
- 4.2 <u>Screening</u>. For device classes Q and V, screening shall be in accordance with MIL-PRF-38535, and shall be conducted on all devices prior to qualification and technology conformance inspection. For device class M, screening shall be in accordance with method 5004 of MIL-STD-883, and shall be conducted on all devices prior to quality conformance inspection.
 - 4.2.1 Additional criteria for device class M.
 - a. Burn-in test, method 1015 of MIL-STD-883.
 - (1) Test condition B 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 test method 1015.
 - (2) $T_A = +125$ °C, minimum.
 - b. Interim and final electrical test parameters shall be as specified in table II herein.
 - 4.2.2 Additional criteria for device classes Q and V.
 - a. The burn-in test duration, test condition and test temperature, or approved alternatives shall be as specified in the device manufacturer's QM plan in accordance with MIL-PRF-38535. The burn-in test circuit shall be maintained under document revision level control of the device manufacturer's Technology Review Board (TRB) in accordance with MIL-PRF-38535 and shall be made available to the acquiring or preparing activity upon request. The test circuit shall specify the inputs, outputs, biases, and power dissipation, as applicable, in accordance with the intent specified in test method 1015 of MIL-STD-883.
 - b. Interim and final electrical test parameters shall be as specified in table II herein.
 - Additional screening for device class V beyond the requirements of device class Q shall be as specified in MIL-PRF-38535, appendix B.
- 4.3 <u>Qualification inspection for device classes Q and V.</u> Qualification inspection for device classes Q and V shall be in accordance with MIL-PRF-38535. Inspections to be performed shall be those specified in MIL-PRF-38535 and herein for groups A, B, C, D, and E inspections (see 4.4.1 through 4.4.4).
- 4.4 <u>Conformance inspection</u>. Technology conformance inspection for classes Q and V shall be in accordance with MIL-PRF-38535 including groups A, B, C, D, and E inspections and as specified herein except where option 2 of MIL-PRF-38535 permits alternate in-line control testing. Quality conformance inspection for device class M shall be in accordance with MIL-PRF-38535, appendix A and as specified herein. Inspections to be performed for device class M shall be those specified in method 5005 of MIL-STD-883 and herein for groups A, B, C, D, and E inspections (see 4.4.1 through 4.4.4).
 - 4.4.1 Group A inspection.
 - a. Tests shall be as specified in table II herein.
 - b. Subgroups 4, 5, 6, 7, and 8 in table I, method 5005 of MIL-STD-883 shall be omitted.

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查询"5962-9755001QXA"供应商 TABLE II. Electrical test requirements.

Test requirements	Subgroups (in accordance with MIL-STD-883, method 5005, table I)	Subgroups (in accordance with MIL-PRF-38535, table III)	
	Device class M	Device class Q	Device class V
Interim electrical parameters (see 4.2)			
Final electrical parameters (see 4.2)	<u>1</u> / 1, 2, 3, 9, 10, 11	<u>1</u> / 1, 2, 3, 9, 10, 11	<u>1</u> / 1, 2, 3, 9, 10, 11
Group A test requirements (see 4.4)	1, 2, 3, 9, 10, 11	1, 2, 3, 9, 10, 11	1, 2, 3, 9, 10, 11
Group C end-point electrical parameters (see 4.4)	1	1	1
Group D end-point electrical parameters (see 4.4)	1	1	1
Group E end-point electrical parameters (see 4.4)	1	1	1

^{1/} PDA applies to subgroup 1.

- 4.4.2 Group C inspection. The group C inspection end-point electrical parameters shall be as specified in table II herein.
- 4.4.2.1 Additional criteria for device class M. Steady-state life test conditions, method 1005 of MILSTD-883:
 - a. 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 test method 1005 of MIL-STD-883.
 - b. $T_A = +125$ °C, minimum.
 - c. Test duration: 1,000 hours, except as permitted by method 1005 of MILSTD-883.
- 4.4.2.2 <u>Additional criteria for device classes Q and V.</u> The steady-state life test duration, test condition and test temperature, or approved alternatives shall be as specified in the device manufacturer's QM plan in accordance with MIL-PRF-38535. The test circuit shall be maintained under document revision level control by the device manufacturer's TRB in accordance with MIL-PRF-38535 and shall be made available to the acquiring or preparing activity upon request. The test circuit shall specify the inputs, outputs, biases, and power dissipation, as applicable, in accordance with the intent specified in test method 1005 of MIL-STD-883.
- 4.4.3 Group D inspection. The group D inspection end-point electrical parameters shall be as specified in table II herein.

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- 4.<u>全种能物的是外移的</u>的,所以使用的的。4.<u>全种能够的,可以使用的的。4.</u> (see 3.5 herein).
 - a. End-point electrical parameters shall be as specified in table II herein.
 - b. For device classes Q and V, the devices or test vehicle shall be subjected to radiation hardness assured tests as specified in MIL-PRF-38535 for the RHA level being tested. For device class M, the devices shall be subjected to radiation hardness assured tests as specified in MIL-PRF-38535, appendix A for the RHA level being tested. All device classes must meet the postirradiation end-point electrical parameter limits as defined in table I at T_A = +25°C, after exposure, to the subgroups specified in table II herein.
 - c. When specified in the purchase order or contract, a copy of the RHA delta limits shall be supplied.

5. PACKAGING

5.1 <u>Packaging requirements</u>. The requirements for packaging shall be in accordance with MIL-PRF-38535 for device classes Q and V or MIL-PRF-38535, appendix A for device class M.

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.
- 6.1.1 <u>Replaceability</u>. Microcircuits covered by this drawing will replace the same generic device covered by a contractor-prepared specification or drawing.
 - 6.1.2 Substitutability. Device class Q devices will replace device class M devices.
- 6.2 <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 in accordance with MIL-STD-973 using DD Form 1692, Engineering Change Proposal.
- 6.3 <u>Record of users</u>. Military and industrial users should inform Defense Supply Center Columbus when a system application requires configuration control and which SMD's are applicable to that system. 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 microelectronic devices (FSC 5962) should contact DSCC-VA, telephone (614) 692-0525.
- 6.4 <u>Comments</u>. Comments on this drawing should be directed to DSCC-VA, Columbus, Ohio 43216-5000, or telephone (614) 692-0674.
- 6.5 <u>Abbreviations, symbols, and definitions</u>. The abbreviations, symbols, and definitions used herein are defined in MIL-PRF-38535 and MIL-HDBK-1331.
 - 6.6 Sources of supply.
- 6.6.1 <u>Sources of supply for device classes Q and V.</u> Sources of supply for device classes Q and V are listed in QML-38535. The vendors listed in QML-38535 have submitted a certificate of compliance (see 3.6 herein) to DSCGVA and have agreed to this drawing.
- 6.6.2 <u>Approved sources of supply for device class M</u>. Approved sources of supply for class M 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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查询"5962-9755001QXA9"供应部D MICROCIRCUIT DRAWING BULLETIN

DATE: 97-08-13

Approved sources of supply for SMD 5962-97550 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 bulletin is superseded by the next dated revision of MIL-HDBK-103 and QML-38535.

Standard	Vendor	Vendor
microcircuit drawing	CAGE	similar
PIN <u>1</u> /	number	PIN <u>2</u> /
5962-9755001QXA	01295	TLC16C552AMHVB

- 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 manufacturer 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.

Vendor CAGE <u>number</u>

Vendor name and address

01295

Texas Instruments Incorporated 13500 N. Central Expressway P.O. Box 655303 Dallas, TX 75265

Point of contact:

I-20 at FM 1788 Midland, TX 79711-0448

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